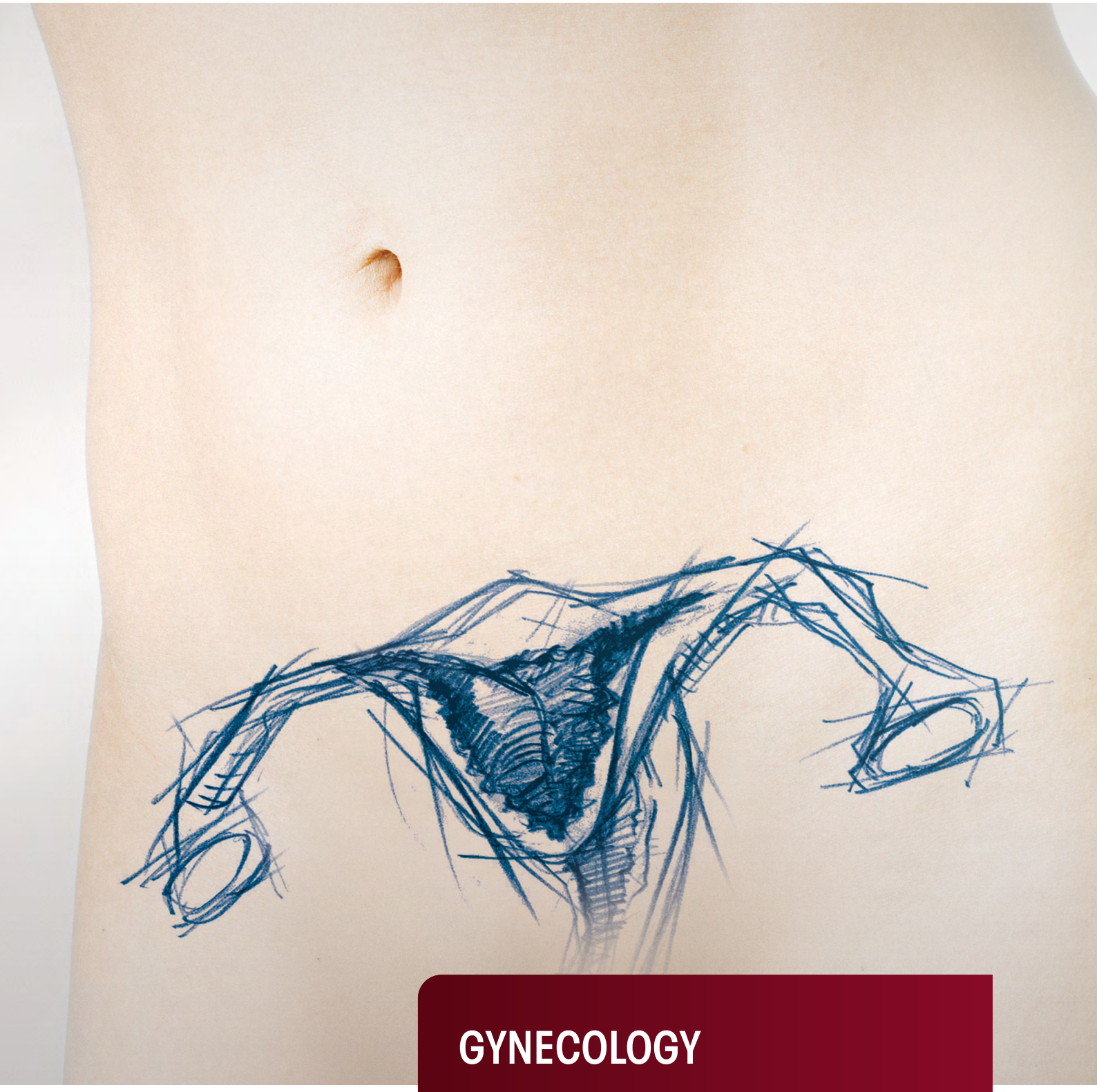
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GYNECOLOGY

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GYNECOLOGY

1 GYNECOLOGICAL LAPAROSCOPY

2 HYSTERECTOMY

3 HYSTEROSCOPY

4 INTERDISCIPLINARY APPLICATIONS

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GYNECOLOGICAL LAPAROSCOPY

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GYNECOLOGICAL LAPAROSCOPY

1 BASIC SETS

2 TELESCOPES

3 TROCAR SLEEVES/DILATION/EXTRACTION/REDUCING SLEEVES

4 ERAGONMODULAR GRASPING FORCEPS/DISSECTORS/BIOPSY FORCEPS/SCISSORS

5 GRASPING FORCEPS

6 BIPOLAR FORCEPS AND SCISSORS

7 HF ELECTRODES (MONOPOLAR/BIPOLAR)

8 MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

9 TISSUE RETRACTOR

10 CLIP APPLICATOR

11 NEEDLE HOLDER/KNOT PUSHER/FASCIA CLOSURE

12 CANNULAS/SURGICAL PROBES/MYOMA DRILLS

13 DEVICES/ACCESSORIES

14 CHOLEDOCHOSCOPY

15 TRAINING MODELS

BASIC SET

FOR ALL LAPAROSCOPIC PROCEDURES

Product	Product no.	Quantity	Catalog / Section
Insufflator 45 EVAC + HEAT bndl	**22350311**	1	Laparoscopy / 14
VERES cannula Ø 2.1 mm WL 152 mm	**8302.12**	1	Laparoscopy / 3
LAP suction irrigation pump bndl	**22160011**	1	Laparoscopy / 14
LED light source ENDOLIGHT LED 2.1 bndl	**51630011**	1	Imaging / Light sources
Fiber light cable		1	Imaging / Light cables
ENDOCAM Logic HD	**5525**	1	Imaging / ENDOCAM
Monitors		1	Imaging / Monitors
Device cart		1	Imaging / Device cart

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BASIC SET

FOR LAPAROSCOPIC CHOLECYSTECTOMY

Product	Product no.	Quantity	Catalog / Section
Telescope 30° Ø 10 mm WL 307 mm	**8934.432**	1	Laparoscopy / 2
and/or			
Telescope 0° Ø 10 mm WL 307 mm	**8934.431**	1	Laparoscopy / 2
Fiber light cable bndl	**806650231**	1	Laparoscopy / 2
Trocar sleeve, slanted, capacity 5.5 mm WL 100 mm	**8921.013**	2–3	Laparoscopy / 3
and/or			
Trocar sleeve, straight, capacity 5.5 mm WL 102 mm	**8919.351**	2–3	Laparoscopy / 3
Trocar sleeve, slanted, capacity 10 mm WL 100 mm	**8923.013**	2	Laparoscopy / 3
Guide rod 5.5 mm TL 500 mm	**8923.921**	1	Laparoscopy / 3
Instrument sleeve 10 mm WL 170 mm	**8385.50**	1	Laparoscopy / 3
VERES cannula Ø 2.1 mm WL 152 mm	**8302.12**	1	Laparoscopy / 3
Multifunctional suction irrigation system			
Suction irrigation tube Ø 5 mm WL 310 mm	**8383.911**	1	Laparoscopy / 8
Suction irrigation handle	**8385.901**	1	Laparoscopy / 8
Sealing cap	**8385.902**	1	Laparoscopy / 8
ERAGONmodular			
Atraumatic grasping forceps Ø 5 mm bndl	**83932925**	1	Laparoscopy / 4
Atraumatic grasping forceps mono Ø 5 mm bndl	**83931817**	2	Laparoscopy / 4
Maryland dissector forceps mono Ø 5 mm bndl	**83932817**	1	Laparoscopy / 4
Metzenbaum scissors Ø 5 mm bndl	**83930417**	1	Laparoscopy / 4
Grasping forceps Ø 10 mm bndl	**83952048**	1	Laparoscopy / 4
Plate-shaped grasping forceps Ø 10 mm bndl	**83952347**	1	Laparoscopy / 4
Hook electrode mono Ø 5 mm WL 340 mm	**8383.423**	1	Laparoscopy / 7
Clip applicator Ø 10 mm WL 340 mm	**8389.911**	1	Laparoscopy / 10
Ethicon® Ligaclips® (PACK= 108 PCS)	**8389.915**	1	Laparoscopy / 10
Needle forceps Ø 2.45 mm WL 160 mm	**8756.201**	1	Laparoscopy / 11
Sealing cone Ø 12–15 mm	**8943.915**	1	Laparoscopy / 11
Monopolar HF cable	**8106**	2	Laparoscopy / 14

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BASIC SET

FOR LAPAROSCOPIC CHOLECYSTECTOMY

Product	Product no.	Quantity	Catalog / Section
Also on request:			
Telescope 30° Ø 5.3 mm WL 303 mm	**8935442**	1	Laparoscopy / 2
Trocar sleeve, slanted, capacity 5.5 mm WL 100 mm	**8921.013**	1	Laparoscopy / 3
Trocar tip sharp size 5.5 mm WL 169 mm	**8921.113**	1	Laparoscopy / 3
ERAGONmodular			
Atraumatic grasping forceps mono Ø 5 mm bndl	**83931957**	1	Laparoscopy / 4
Biopsy forceps mono Ø 5 mm bndl	**83930937**	1	Laparoscopy / 4
Dissector forceps Ø 10 mm bndl	**83952268**	1	Laparoscopy / 4
ERAGONbipolar			
Grasping forceps bipo Ø 5.5 mm bndl	**839300312**	1	Laparoscopy / 6

In addition to laparoscopic choledochus revision			
Grasping forceps Ø 5 mm WL 295 mm	**8383311**	1	Laparoscopy / 5

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BASIC SET

FOR LAPAROSCOPIC APPENDECTOMY

Product	Product no.	Quantity	Catalog / Section
Telescope 30° Ø 10 mm WL 307 mm	**8934.432**	1	Laparoscopy / 2
and/or			
Telescope 0° Ø 10 mm WL 307 mm	**8934.431**	1	Laparoscopy / 2
Fiber light cable bndl	**806650231**	1	Laparoscopy / 2
Trocar sleeve, slanted, capacity 10 mm WL 100 mm	**8923.013**	2	Laparoscopy / 3
Trocar tip sharp size 10 mm	**8923.113**	2	Laparoscopy / 3
and/or			
Trocar sleeve, straight, capacity 5.5 mm WL 102 mm	**8919.351**	2–3	Laparoscopy / 3
Trocar tip sharp size 5.5 mm WL 144 mm	**8919.3512**	2–3	Laparoscopy / 3
Trocar sleeve, slanted, capacity 5.5 mm WL 100 mm	**8921.013**	2–3	Laparoscopy / 3
Trocar tip sharp size 5.5 mm WL 169 mm	**8921.113**	2–3	Laparoscopy / 3
Guide rod 5.5 mm TL 500 mm	**8923.921**	1	Laparoscopy / 3
Instrument sleeve 10 mm WL 170 mm	**8385.50**	1	Laparoscopy / 3
ERAGONmodular			
Grasping forceps mono Ø 5 mm bndl	**83932877**	1	Laparoscopy / 4
Atraumatic grasping forceps mono Ø 5 mm bndl	**83931817**	2	Laparoscopy / 4
Maryland dissector forceps mono Ø 5 mm bndl	**83932817**	1	Laparoscopy / 4
Metzenbaum scissors Ø 5 mm bndl	**83930417**	1	Laparoscopy / 4
Grasping and dissector forceps 5 mm	**83932827**	1	Laparoscopy / 4
ERAGONbipolar			
Grasping forceps bipo Ø 5.5 mm bndl	**839300312**	1	Laparoscopy / 6
Multifunctional suction irrigation system			
Suction irrigation tube Ø 5 mm WL 310 mm	**83839.11**	1	Laparoscopy / 8
Suction irrigation handle	**8385.901**	1	Laparoscopy / 8
Sealing cap	**8385.902**	1	Laparoscopy / 8
Surgical probe Ø 5 mm WL 328 mm	**8383.66**	1	Laparoscopy / 12
VERES cannula Ø 2.1 mm WL 152 mm	**8302.12**	1	Laparoscopy / 3
Bipolar HF cable	**8108**	1	Laparoscopy / 14
Monopolar HF cable	**8106**	1	Laparoscopy / 14

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BASIC SET

FOR LAPAROSCOPIC APPENDECTOMY

Product	Product no.	Quantity	Catalog / Section
Also on request:			
ERAGONmodular			
Dissector forceps mono Ø 5 mm bndl	**83932897**	1	Laparoscopy / 4
Grasping forceps mono Ø 5 mm bndl	**83931837**	2	Laparoscopy / 4
Biopsy forceps mono Ø 5 mm bndl	**83930917**	1	Laparoscopy / 4
Maryland dissector forceps Ø 10 mm bndl	**83952257**	1	Laparoscopy / 4
Clip applicator Ø 10 mm WL 340 mm	**8389.911**	1	Laparoscopy / 10
Ethicon® Ligaclips® (PACK= 108 PCS)	**8389.915**	1	Laparoscopy / 10
Introduction sleeve 10 mm WL 80 mm	**8389.991**	1	Laparoscopy / 10
Needle holder Ø 5 mm bndl	**8393.502**	1	Laparoscopy / 11

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BASIC SET LEVD

LAPAROSCOPIC SINGLE-CHANNEL VARICOCELE DISSECTION

Product	Product no.	Quantity	Catalog / Section
OR endoscope bndl	**8920.4011**	1	Laparoscopy / 2
Perforated basket for telescope	**38008**		Laparoscopy / 2
Fiber light cable bndl	**806625231**	1	Laparoscopy / 2
Trocar sleeve, straight, capacity 5.5 mm WL 102 mm	**8919.353**	1	Laparoscopy / 3
Optional:			
Trocar tip blunt size 5.5 mm WL 144 mm	**8919.3511**	1	Laparoscopy / 3
Trocar tip sharp size 5.5 mm WL 144 mm	**8919.3512**	1	Laparoscopy / 3
Trocar tip triangular size 5.5 mm WL 144 mm	**8919.3513**	1	Laparoscopy / 3
ERAGONmodular mini			
Universal grasping forceps Ø 3.5 mm bndl	**83912097**	1	Laparoscopy / 4
Atraumatic grasping forceps Ø 3.5 mm bndl	**83912087**	1	Laparoscopy / 4
Babcock forceps Ø 3.5 mm bndl	**83912107**	1	Laparoscopy / 4
Dissector forceps mono Ø 3.5 mm bndl	**83912077**	1	Laparoscopy / 4
Hook scissors mono Ø 3.5 mm bndl	**83912277**	1	Laparoscopy / 4
Metzenbaum scissors mono Ø 3.5 mm bndl	**83912247**	1	Laparoscopy / 4
Connection cable			
Bipolar HF cable	**8108**	1	Laparoscopy / 14
Monopolar HF cable	**8106**	1	Laparoscopy / 14

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BASIC SET

E-MILOS

Product	Product no.	Quantity	Catalog / Section
Telescope 30° Ø 10 mm WL 307 mm	**8934.432**	1	Laparoscopy / 2
Light tube for MILOS method Ø 10 mm	**893420**	1	Laparoscopy / 2
Trocar sleeve, straight, capacity 3.5 mm WL 100 mm	**8903.014**	2	Laparoscopy / 3
Trocar tip blunt size 3.5 mm WL 169 mm	**8903.103**	2	Laparoscopy / 3
ERAGONmodular mini			
Handle, pistol-shaped, mono	**83930073**	4	Laparoscopy / 4
Sheath tube insulated Ø 3.5 mm SL 330 mm	**8391933**	4	Laparoscopy / 4
Dissector forceps insert Ø 3.5 mm	**8391222**	1	Laparoscopy / 4
Metzenbaum scissors insert Ø 3.5 mm	**8391215**	1	Laparoscopy / 4
Grasping forceps insert Ø 3.5 mm	**8391208**	2	Laparoscopy / 4
Electrode			
Hook electrode mono Ø 3.5 mm WL 310 mm	**8379.452**	1	Laparoscopy / 7
ERAGONstitch			
Needle holder insert Ø 3.5 mm	**8391506**	1	Laparoscopy / 11
Sheath tube Ø 3.5 mm SL 330 mm	**8391533**	1	Laparoscopy / 11
Needle holder handle, axial	**8393943**	1	Laparoscopy / 11

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BASIC SET

MINI E-MILOS

Product	Product no.	Quantity	Catalog / Section
Telescope 30° Ø 10 mm WL 307 mm	**8934.432**	1	Laparoscopy / 2
Light tube for MILOS method Ø 10 mm	**893420**	1	Laparoscopy / 2
Trocar sleeve, straight, capacity 5.5 mm WL 100 mm	**8921.014**	2	Laparoscopy / 3
Trocar tip blunt size 5.5 mm WL 169 mm	**8921.103**	2	Laparoscopy / 3
ERAGONmodular			
Handle, pistol-shaped, mono	**83930073**	4	Laparoscopy / 4
Sheath tube insulated Ø 5 mm SL 330 mm	**8391933**	4	Laparoscopy / 4
Dissector forceps insert Ø 5 mm	**8393240**	1	Laparoscopy / 4
Metzenbaum scissors insert Ø 5 mm	**8393.041**	1	Laparoscopy / 4
Grasping forceps insert Ø 3.5 mm	**8393.181**	2	Laparoscopy / 4
Electrode			
Hook electrode mono Ø 5 mm WL 340 mm	**8383.423**	1	Laparoscopy / 7
ERAGONstitch			
Needle holder insert Ø 5 mm	**8393508**	1	Laparoscopy /11
Sheath tube Ø 5 mm SL 330 mm	**8393533**	1	Laparoscopy / 11
Needle holder handle, axial	**8393943**	1	Laparoscopy / 11

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BASIC SET

LAPAROSCOPIC BARIATRIC SURGERY

Product	Product no.	Quantity	Catalog / Section
Telescope 0° Ø 10 mm WL 305 mm	**8934461**	1	Laparoscopy / 2
Telescope 30° Ø 10 mm WL 305 mm	**8934462**	1	Laparoscopy / 2
Fiber light cable bndl	**806550231**	1	Laparoscopy / 2
Trocar sleeve, straight, capacity 5.5 mm WL 150 mm	**8921.016**	3	Laparoscopy / 3
Trocar sleeve, straight, capacity 10 mm WL 150 mm	**8923.016**	1	Laparoscopy / 3
Trocar sleeve, straight, capacity 12.5 mm WL 150 mm	**8924.016**	1	Laparoscopy / 3
Optional:			
Trocar tip sharp size 5.5 mm	**8921.115**	3	Laparoscopy / 3
Trocar tip sharp size 10 mm	**8923.115**	1	Laparoscopy / 3
Trocar tip sharp size 12.7 mm	**8924.115**	1	Laparoscopy / 3
Reducing adapter	**8923.802**	1	Laparoscopy / 3
Multifunctional suction irrigation system			
Suction irrigation tube Ø 5 mm WL 450 mm	**8384.911**	1	Laparoscopy / 8
Suction irrigation handle	**8385.901**	1	Laparoscopy / 8
Sealing cap	**8385.902**	1	Laparoscopy / 8
Suction irrigation tube set with piercing spike L 3 m	**4170.956**	1	Laparoscopy / 8
ERAGONmodular			
Atraumatic grasping forceps mono Ø 5 mm bndl	**83941817**	1	Laparoscopy / 4
Dissector forceps mono Ø 5 mm bndl	**83942407**	1	Laparoscopy / 4
Metzenbaum scissors mono Ø 5 mm bndl	**83940417**	1	Laparoscopy / 4
Atraumatic Grasping forceps Ø 5 mm bndl	**83942297**	1	Laparoscopy / 4
Biopsy forceps mono Ø 5 mm bndl	**83940917**	1	Laparoscopy / 4
Atraumatic Grasping forceps Ø 5 mm bndl	**83942507**	1	Laparoscopy / 4
Stapler head grasping forceps Ø 10 mm bndl	**83976558**	1	Laparoscopy / 4
Plate-shaped grasping forceps Ø 10 mm bndl	**83962347**	1	Laparoscopy / 4
Babcock forceps Ø 10 mm bndl	**83961877**	1	Laparoscopy / 4
ERAGONbipolar			
Maryland dissector bipo Ø 5.5 mm bndl	**839400322**	1	Laparoscopy / 6
Metzenbaum scissors bipo Ø 5.5 mm bndl	**839400412**	1	Laparoscopy / 6
Electrode			
Hook electrode mono Ø 5 mm WL 420 mm	**8384.423**	1	Laparoscopy / 7

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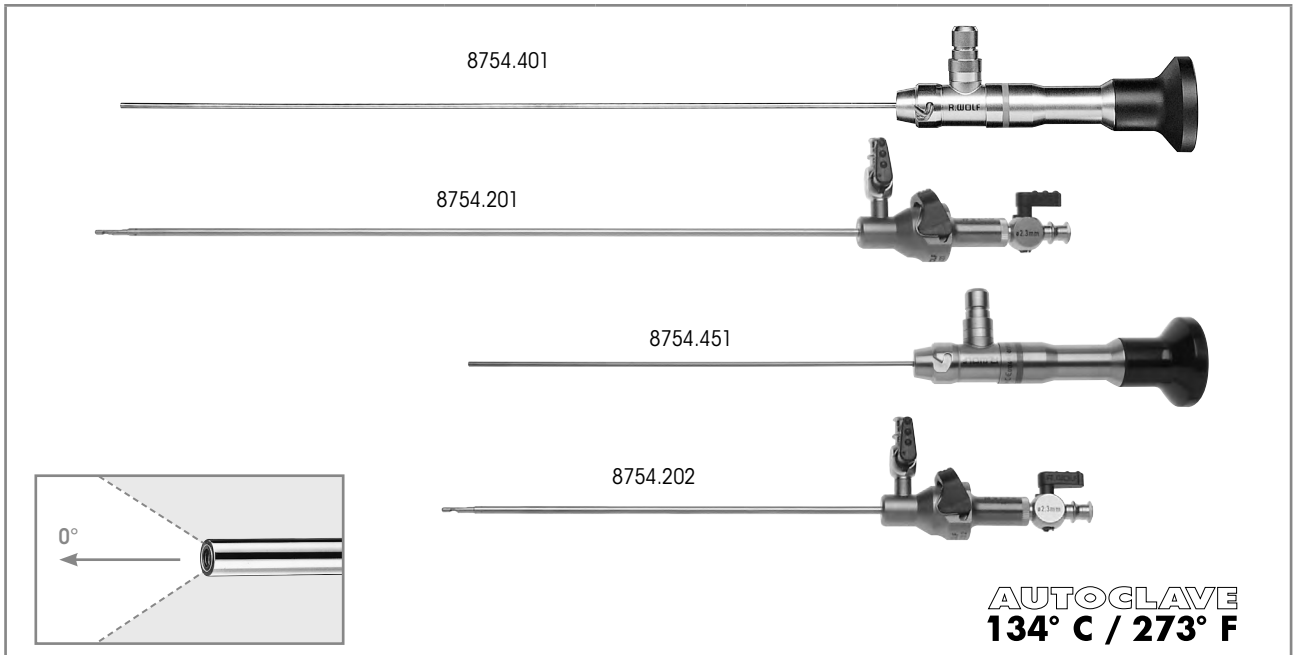
BASIC SET

LAPAROSCOPIC BARIATRIC SURGERY

Product	Product no.	Quantity	Catalog / Section
Clip applicator Ø 10 mm WL 340 mm	**8389.911**	1	Laparoscopy / 10
Ethicon® Ligaclips® (PACK= 108 PCS)	**8389.915**	1	Laparoscopy / 10
Needle holder Ø 5 mm bndl with carbide insert	**8394.502**	1	Laparoscopy / 11
Needle holder Ø 5 mm bndl curved to the right with carbide insert	**8394.511**	1	Laparoscopy / 11
Needle forceps Ø 2.45 mm WL 160 mm	**8756.201**	1	Laparoscopy / 11
Sealing cone Ø 12–15 mm	**8943.915**	1	Laparoscopy / 11
Sealing cone Ø 10–12 mm	**8934.915**	1	Laparoscopy / 11
VERES cannula Ø 2.1 mm WL 152 mm	**8302.12**	1	Laparoscopy / 3
Handle, axial, mono	**83930084**	1	Laparoscopy / 14
Rotatable knob	**8988**	1	Laparoscopy / 14
Connection cable			
Mono HF connection cable L 3 m	**8106.033**	1	Laparoscopy / 13
Bipo HF connection cable L 3 m	**8108.132**	1	Laparoscopy / 13

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MINI FIBER TELESCOPES 2.0 MM



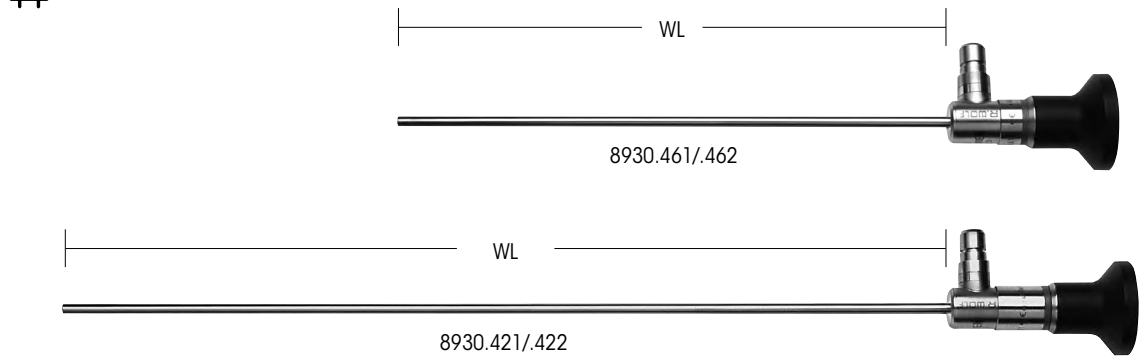
Long version	Direction of view	WL	TL	Ø	Product no.
Telescope 0° Ø 2 mm NL 268 mm	0°	268 mm	365 mm	2.0 mm	**8754.401**
for this:					
VERES cannula Ø 2.3 mm WL 250 mm consisting of: 1x VERES cannula Ø 2.3 mm WL 274 mm (8754.211) 1x outer sheath Ø 2.8 mm, WL 250 mm (8754.221)		250 mm		2.3 mm	**8754.201**
Short version	**Direction of view**	**WL**	**TL**	**Ø**	**Product no.**
Telescope 0° Ø 2 mm NL 158 mm	0°	158 mm	255 mm	2.0 mm	**8754.451**
for this:					
VERES cannula Ø 2.3 mm WL 170 mm consisting of: 1x VERES cannula Ø 2.3 mm WL 164 mm (8754.212) 1x outer sheath Ø 2.8 mm WL 141 mm (8754.222)		170 mm		2.3 mm	**8754.202**

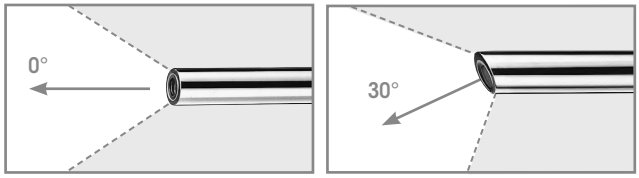
Recommended accessories		Product no.
Perforated basket for standard telescope 1 (for telescope 8754.451)	(W x H x D) 297 x 54 x 59 mm	**38015**
Perforated basket for standard telescope 2 (for telescope 8754.401)	(W x H x D) 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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LAPAROSCOPES 3.5 MM

free of distortion





AUTOCLAVE
134° C / 273° F

	Direction of view	WL	TL	Ø	Product no.
PANOVIEW PLUS **Telescope 0° 3.5 mm WL 180 mm**	0°	180 mm	232 mm	3.5 mm	**8930.461**
PANOVIEW PLUS **Telescope 30° 3.5 mm WL 180 mm**	30°		233 mm		**8930.462**
PANOVIEW PLUS **Telescope 0° Ø 3.5 mm WL 300 mm**	0°	300 mm	361 mm		**8930.421**
PANOVIEW PLUS **Telescope 30° 3.5 mm WL 300 mm**	30°		362 mm		**8930.422**

Recommended accessories		Product no.
Perforated basket for standard telescope 1 (for telescope 8930.461/.462)	(W x H x D) 297 x 54 x 59 mm	**38015**
Perforated basket for standard telescope 2 (for telescope 8930.421/.422)	(W x H x D) 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

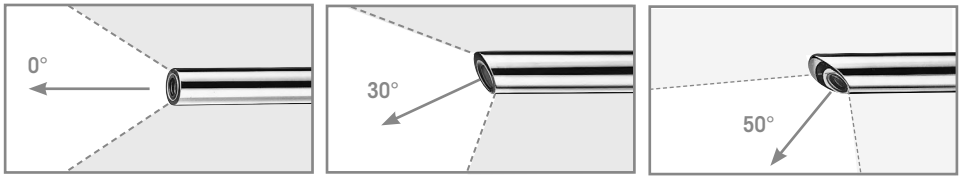
III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

LAPAROSCOPES 5.3 MM

free of distortion

full screen HD





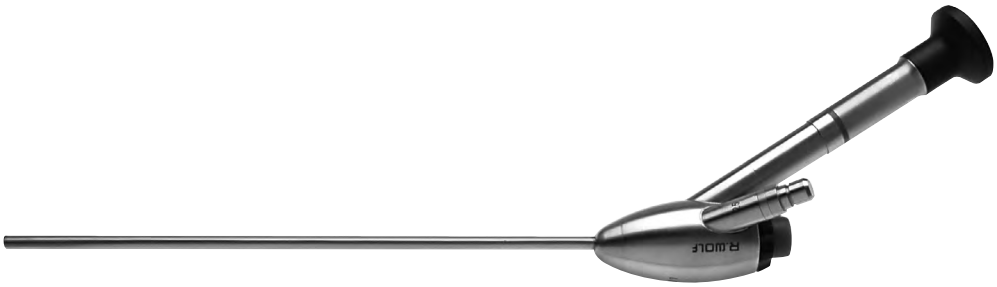
AUTOCLAVE
134° C / 273° F

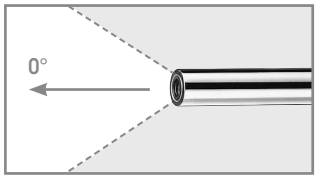
	Direction of view	WL	TL	Ø	Product no.
PANOVIEW **Telescope 0° Ø 5.3 mm WL 303 mm**	0°	303 mm	372 mm	5.3 mm	**8935.441**
PANOVIEW **Telescope 30° Ø 5.3 mm WL 303 mm**	30°		373 mm		**8935.442**
PANOVIEW **Telescope 50° Ø 5.3 mm WL 309 mm**	50°	309 mm	377 mm		**8935.443**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	(W x H x D) 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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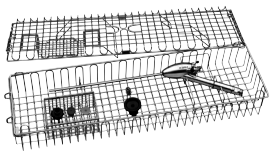
MINI OR LAPAROSCOPE
5.5 MM WITH 3.5 MM WORKING CHANNEL





AUTOCLAVE
134° C / 273° F

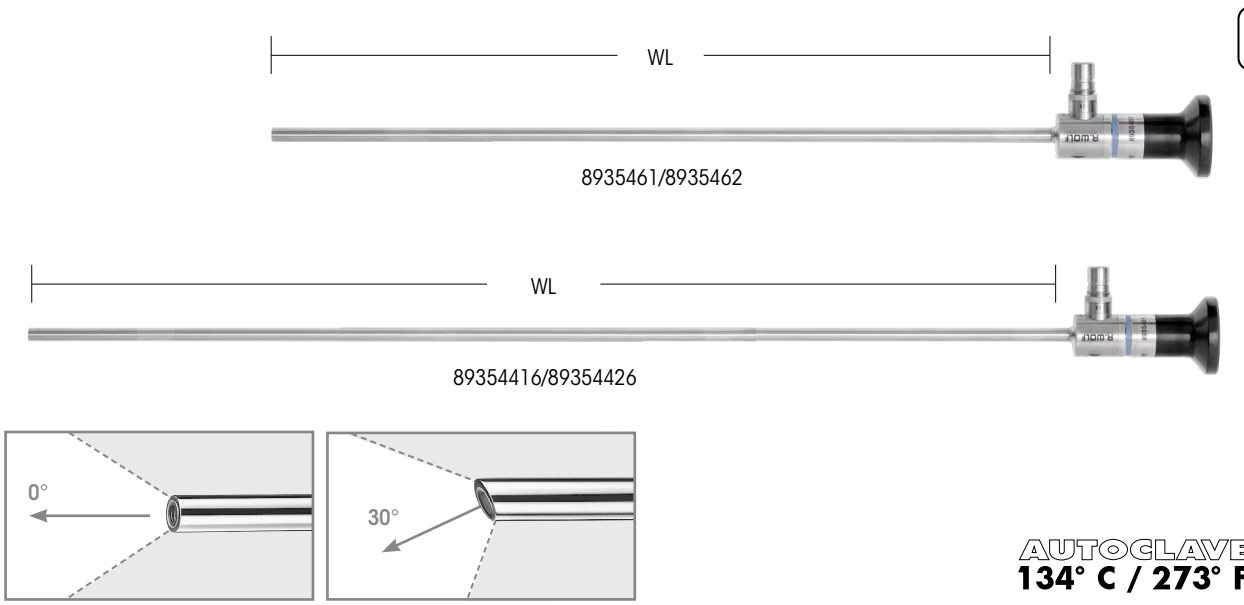
	Direction of view	SL	TL	Ø	Working channel Ø	Product no.
OR endoscope bndl consisting of: OR endoscope 0° Ø 5.5 mm SL 215 mm (8920.401) Autom. sealing element ID 5.7 mm (8920.311) Sealing cap, red-orange (15176.020) Sealing membrane Ø 17 mm (PACK= 10 PCS) (89.103)	0°	215 mm	370 mm	5.5 mm	3.5 mm	**8920.4011**

Recommended accessories		Product no.
Trocar sleeve, straight, capacity 5.5 mm WL 62 mm		**8919.333**
Trocar sleeve, straight, capacity 5.5 mm WL 102 mm		**8919.353**
Perforated basket for telescope Dimensions (W x L x H): 132 x 467 x 75 mm		**38008**
Fiber light cable bndl consisting of: Fiber light cable (80663523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 3.5 mm, 2.3 m long	**806635231**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

PANOVIEW ULTRA

TELESCOPES 5.5 MM OPTIMIZED FOR 4K UHD



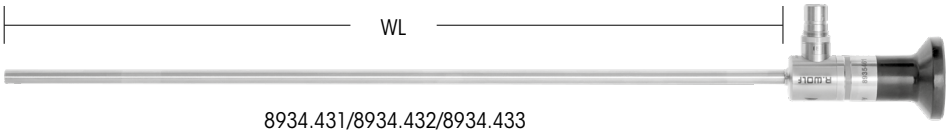
	Direction of view	WL	Ø	Product no.
PANOVIEW ULTRA **Telescope Ø 5.5 mm WL 300 mm**	0°	300 mm	5.5 mm	**8935461**
PANOVIEW ULTRA **Telescope Ø 5.5 mm WL 300 mm**	30°			**8935462**
PANOVIEW ULTRA **Telescope Ø 5.5 mm WL 430 mm**	0°	430 mm		**89354416**
PANOVIEW ULTRA **Telescope Ø 5.5 mm WL 430 mm**	30°			**89354426**

Recommended accessories		Product no.
Perforated basket for standard telescope 2 (for telescope 8935416/8935426)	(W x H x D) 481 x 54 x 59 mm	**38016**
Perforated basket for standard telescope 3 (for telescope 89354416/89354426)	(W x H x D) 619 x 54 x 59 mm	**38017**
Fiber light cable bndl consisting of: Fiber light cable (80663523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 3.5 mm, 2.3 m long	**806635231**

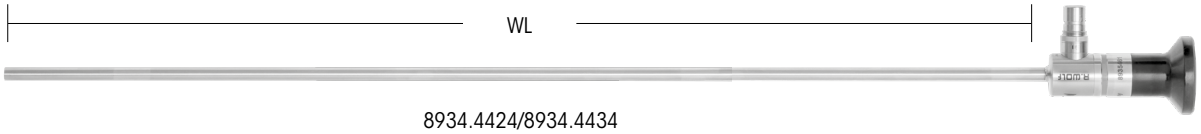
||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

LAPAROSCOPES 10 MM

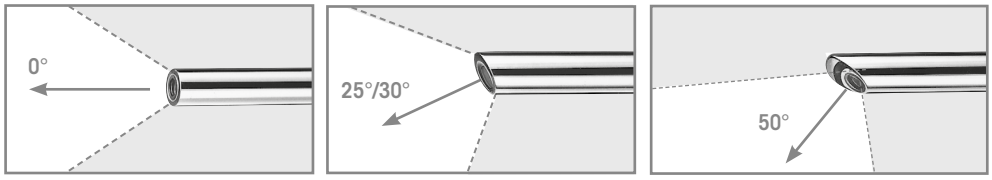
free of distortion



8934.431/8934.432/8934.433



8934.4424/8934.4434



AUTOCLAVE
134° C / 273° F

	Direction of view	WL	TL	Ø	Product no.
PANOVIEW **Telescope 0° Ø 10 mm WL 307 mm**	0°	307 mm	375 mm	10 mm	**8934.431**
PANOVIEW **Telescope 30° Ø 10 mm WL 307 mm**	30°	307 mm	375 mm		**8934.432**
PANOVIEW **Telescope 50° Ø 10 mm WL 310 mm**	50°	310 mm	378 mm		**8934.433**
PANOVIEW PLUS **Telescope 25° Ø 10 mm WL 438 mm**	25°	438 mm	507 mm		**8934.4424**
PANOVIEW PLUS **Telescope 50° Ø 10 mm WL 447 mm**	50°	447 mm	516 mm		**8934.4434**

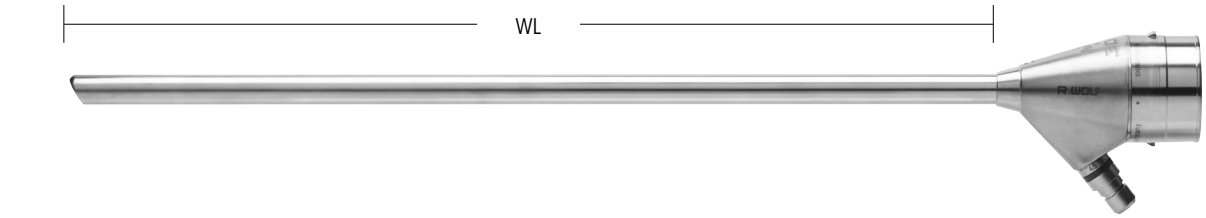
Recommended accessories		Product no.
Perforated basket for standard telescope 2 (for telescope 8934.431/.432/.433)	(W x H x D) 481 x 54 x 59 mm	**38016**
Perforated basket for standard telescope 3 (for telescope 8934.4424/.4434)	(W x H x D) 619 x 54 x 59 mm	**38017**
Fiber lightcable bndl consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80665023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806650231**
Fusion **Fiber light cable bndl** consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**

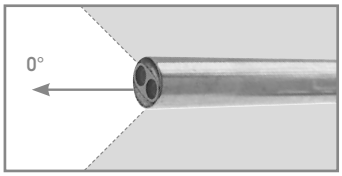
III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

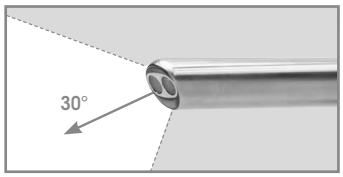
3D ENDOSCOPE 10 MM

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

free of distortion



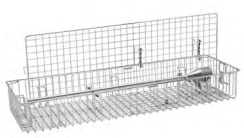






AUTOCLAVE
134° C / 273° F

	Direction of view	WL	TL	Ø	Product no.
3D endoscope 0° Ø 10 mm WL 300 mm	0°	300 mm	366 mm	10 mm	**8934631**
3D endoscope 0° Ø 10 mm WL 435 mm		435 mm	500 mm		**89344631**
3D endoscope 30° Ø 10 mm WL 301 mm	30°	301 mm	366 mm		**8934632**
3D endoscope 30° Ø 10 mm WL 435 mm		435 mm	501 mm		**89344632**

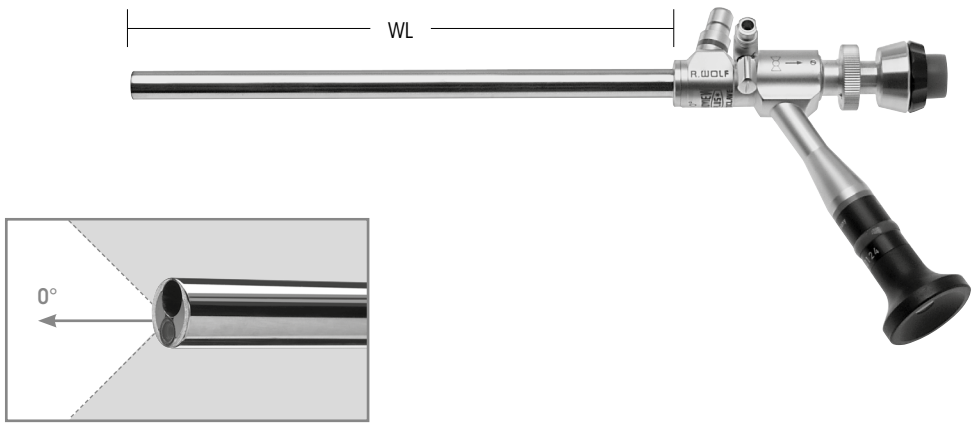
Recommended accessories		Product no.
Perforated basket for 3D telescope 	(W x H x D): 583 x 200 x 80 mm	**38014**
Fusion **Fiber light cable bndl** consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side, adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**

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SURGICAL LAPAROSCOPE 10 MM

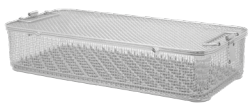
FOR ONE HOLE APPENDECTOMY

free of distortion



AUTOCLAVE
134° C / 273° F

	Direction of view	WL	TL	Ø	Working channel Ø	Product no.
PANOVIEW PLUS **OR endoscope 0° Ø 10 mm WL 188 mm** with lateral eyepiece	0°	188 mm	285 mm	10 mm	5.1 mm	**8915.501**

Recommended accessories		Product no.
Universal perforated basket 4 (W x H x D): 538 x 117 x 250 mm		**33004**
for this: **Instrument mat for perforated basket**		**33001**
Fiber light cable bndl consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806650231**
Fusion **Fiber light cable bndl** consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TELESCOPES 10 MM

OPTIMIZED FOR 4K UHD AND ICG/NIR APPLICATION
SHORT VERSION

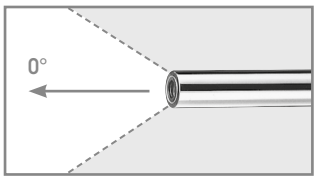


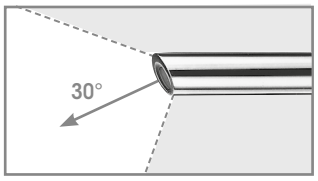
4K UHD

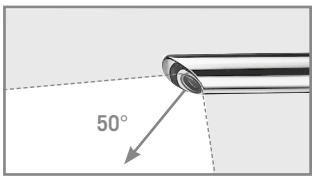
ICG NIR



AUTOCLAVE
134° C / 273° F







	Direction of view	WL	TL	Ø	Product no.
PANOVIEW ULTRA **Telescope 0° Ø 10 mm WL 305 mm**	0°	305 mm	375 mm	10 mm	**8934461**
PANOVIEW ULTRA **Telescope 30° Ø 10 mm WL 305 mm**	30°				**8934462**
PANOVIEW ULTRA **Telescope 50° Ø 10 mm WL 305 mm**	50°				**8934463**

Note: Compatible with System green (see Imaging Catalog) (ICG/NIR-capable) and its recommended Fusion fiber light cable

Recommended accessories		Product no.
Perforated basket for standard telescope 2	(W x H x D) 481 x 54 x 59 mm	**38016**
Fiber lightcable bndl consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80665023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806650231**
Fusion fiber light**cable bndl** consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

PANOVIEW ULTRA

TELESCOPES 10 MM

OPTIMIZED FOR 4K UHD AND ICG/NIR APPLICATION
LONG VERSION

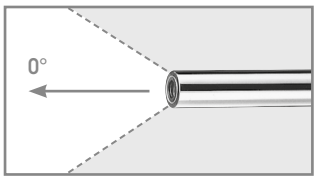


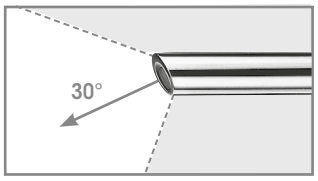
4K UHD

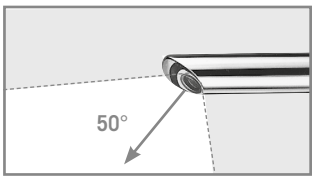
ICG NIR



AUTOCLAVE
134° C / 273° F







	Direction of view	WL	TL	Ø	Product no.
PANOVIEW ULTRA **Telescope 0° Ø 10 mm WL 440 mm**	0°	440 mm	510 mm	10 mm	**89344416**
PANOVIEW ULTRA **Telescope 30° Ø 10 mm WL 440 mm**	30°				**89344426**
PANOVIEW ULTRA **Telescope 50° Ø 10 mm WL 440 mm**	50°				**89344436**

Note: Compatible with System green (see Imaging Catalog) (ICG/NIR-capable) and its recommended Fusion fiber light cable

Recommended accessories		Product no.
Perforated basket for standard telescope 3	(W x H x D) 619 x 54 x 59 mm	**38017**
Fiber lightcable bndl consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80665023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806650231**
Fusion **Fiber light cable bndl** consisting of: Fiber light cable Ø 5 mm TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**

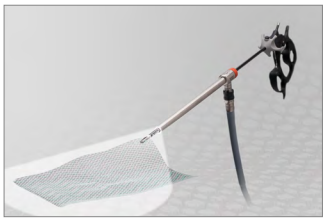
III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

EndoTORCH

LIGHT TUBE FOR MILOS METHOD

(**MI**NI **L**ESS **O**PEN **S**UBLAY METHOD)





AUTOCLAVE
134° C / 273° F

		Ø	TL	Product no.
	**Light tube for MILOS method Ø 10 mm** Instrument channel for 5 mm instruments	10 mm	200 mm	**893420**

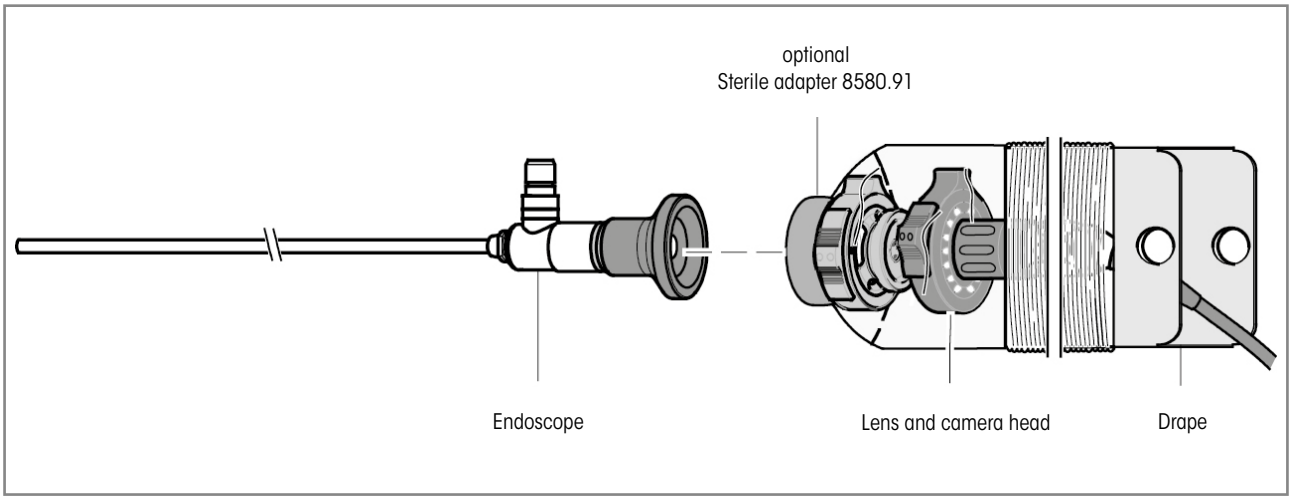
Recommended accessories		Product no.
Fiber light cable bndl consisting of: Fiber light cable Ø 5 mm, TL 2.3 m (80665023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806650231**
Fusion **Fiber light cable bndl** consisting of: Fiber light cable Ø 5 mm, TL 2.3 m (80655023), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 5.0 mm, 2.3 m long	**806550231**
Sealing cap, sulfur yellow, cap. 1.3 mm		**8934201**

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LAPAROSCOPES

ACCESSORIES

			Product no.
	**Sterile adapter**	immersible and autoclavable for changing telescopes	**8580.91**



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TROCAR SLEEVES 2.2 / 2.5 MM



Plastic sheath tube with thread	WL	Capacity	Product no.	Tip triangular Trocar tip triangular Size 2.2 mm WL 82 mm
Trocar sleeve capacity 2.2 mm WL 60 mm with universal sealing valve	60 mm	2.2 mm	**8309.072**	**8309.121**



Trocar sleeve with insufflation connector Stainless steel sheath tube, smooth	WL	Capacity	Product no.	Tip triangular Trocar tip triangular Size 2.2 mm WL 82 mm
Trocar sleeve capacity 2.5 mm WL 95 mm	95 mm	2.5 mm	**8309.014**	**8309.121**
				WL 119 mm
Trocar sleeve capacity 2.5 mm WL 95 mm	95 mm	2.5 mm	**8309.014**	**8309.123**

Accessories	Product no.
Rubber cap capacity 0.8 mm (PACK= 10 PCS) red	**88.01**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TROCAR SLEEVES 3.5 MM

WITH INSUFFLATION STOPCOCK

RIWO-ART trocar sleeves
with magnetic ball valve
with insufflation stopcock



Stainless steel sheath tube, smooth	WL	Capacity	Product no.	Tip tapered/blunt Trocar tip blunt Size 3.5 mm	Tip triangular Trocar tip triangular Size 3.5 mm
Trocar sleeve straight capacity 3.5 mm WL 100 mm	100 mm	3.5 mm	**8903.014**	**8903.103**	**8903.123**
Plastic sheath tube with thread					
Trocar sleeve straight capacity 3.5 mm WL 100 mm	100 mm	3.5 mm	**8903.034**	**8903.103**	**8903.123**
				WL 129 mm	WL 129 mm
Trocar sleeve slanted capacity 3.5 mm WL 60 mm	60 mm	3.5 mm	**8903.072**	**8903.101**	**8903.121**

Accessories	Product no.
Spare ball capacity 5.5 mm	**8921.901**
Spare O rings capacity 3.5 mm (PACK= 10 PCS), capacity Ø 3.5–5.5 mm	**8921.951**
Sealing cap capacity 2.4–3.4 mm (PACK= 10 PCS) red	**89.01**
Stopcock insert bndl cap. 3.0 mm (PACK= 5 PCS)	**896.0002**

Trocar sleeve
with membrane valve



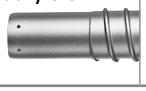
Plastic sheath tube with distal screw anchor	WL	Capacity	Product no.	Tip tapered/blunt Trocar tip blunt Size 3.5 mm
Trocar sleeve straight capacity 3.5 mm WL 40 mm	40 mm	3.5 mm	**8929.223**	**8903.103**

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TROCAR SLEEVES 5.5 MM

RIWO-ART trocar sleeves
with magnetic ball valve
with insufflation stopcock



				Tip tapered/blunt 	Tip tapered/ pointed 	Tip triangular 
				Trocar tip blunt Size 5.5 mm	Trocar tip pointed Size 5.5 mm	Trocar tip triangular Size 5.5 mm
Stainless steel sheath tube	**WL**	**Capacity**	**Product no.**	**WL 169 mm**	**WL 169 mm**	**WL 169 mm**
Trocar sleeve straight capacity 5.5 mm **WL 100 mm** smooth 	100 mm	5.5 mm	**8921.014**	**8921.103**	**8921.113**	**8921.123**
Trocar sleeve slanted capacity 5.5 mm **WL 100 mm** smooth 	100 mm	5.5 mm	**8921.013**	**8921.103**	**8921.113**	**8921.123**
Trocar sleeve straight capacity 5.5 mm **WL 100 mm** with thread 	100 mm	5.5 mm	**8921.024**	**8921.103**	**8921.113**	**8921.123**
Trocar sleeve slanted capacity 5.5 mm **WL 100 mm** with thread 	100 mm	5.5 mm	**8921.023**	**8921.103**	**8921.113**	**8921.123**
Plastic tube **Trocar sleeve straight capacity 5.5 mm** **WL 100 mm** with thread 	100 mm	5.5 mm	**8921.034**	**8921.103**	**8921.113**	**8921.123**
				WL 219 mm	WL 219 mm	WL 219 mm
Trocar sleeve straight capacity 5.5 mm **WL 150 mm** smooth 	150 mm	5.5 mm	**8921.016**	**8921.105**	**8921.115**	**8921.125**
Trocar sleeve straight capacity 5.5 mm **WL 150 mm** with thread 	150 mm	5.5 mm	**8921.026**	**8921.105**	**8921.115**	**8921.125**

Accessories	Product no.
Spare ball capacity 5.5 mm	**8921.901**
Spare O rings capacity 3.5 mm (PACK= 10 PCS), capacity Ø 3.5–5.5 mm	**8921.951**
Sealing cap capacity 3.4–5.1 mm (PACK= 10 PCS) blue	**89.02**
Stopcock insert bndl cap. 3.0 mm (PACK= 5 PCS)	**896.0002**

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TROCAR SLEEVES 5.5 MM

RIWO-ART trocar sleeves with magnetic ball valve 				**Tip tapered/blunt**  **Trocar tip blunt Size 5.5 mm**	**Tip tapered/ pointed**  **Trocar tip pointed Size 5.5 mm**	**Tip triangular**  **Trocar tip triangular Size 5.5 mm**
Stainless steel sheath tube	WL	Capacity	**Product no.**	WL 129 mm	WL 129 mm	WL 129 mm
Trocar sleeve straight capacity 5.5 mm **WL 60 mm** smooth 	60 mm	5.5 mm	**8921.052**	**8921.101**	**8921.111**	**8921.121**
Trocar sleeve slanted capacity 5.5 mm **WL 60 mm** smooth 	60 mm	5.5 mm	**8921.051**	**8921.101**	**8921.111**	**8921.121**
Trocar sleeve straight capacity 5.5 mm **WL 60 mm** with thread 	60 mm	5.5 mm	**8921.062**	**8921.101**	**8921.111**	**8921.121**
Trocar sleeve slanted capacity 5.5 mm **WL 60 mm** with thread 	60 mm	5.5 mm	**8921.061**	**8921.101**	**8921.111**	**8921.121**
Plastic tube **Trocar sleeve straight capacity 5.5 mm** **WL 60 mm** with thread 	60 mm	5.5 mm	**8921.072**	**8921.101**	**8921.111**	**8921.121**
				WL 169 mm	WL 169 mm	WL 169 mm
Trocar sleeve straight capacity 5.5 mm **WL 100 mm** smooth 	100 mm	5.5 mm	**8921.054**	**8921.103**	**8921.113**	**8921.123**
Trocar sleeve straight capacity 5.5 mm **WL 100 mm** with thread 	100 mm	5.5 mm	**8921.053**	**8921.103**	**8921.113**	**8921.123**

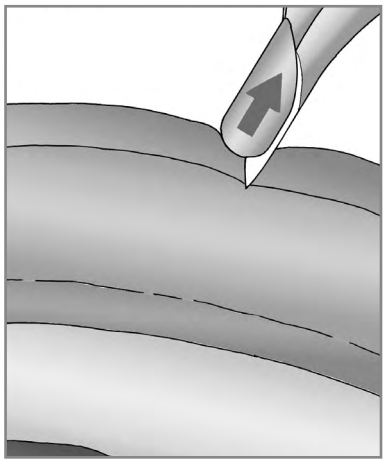
Accessories	Product no.
Spare ball capacity 5.5 mm	**8921.901**
Spare O rings capacity 3.5 mm (PACK= 10 PCS), capacity Ø 3.5–5.5 mm	**8921.951**
Sealing cap capacity 3.4–5.1 mm (PACK= 10 PCS) blue	**89.02**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

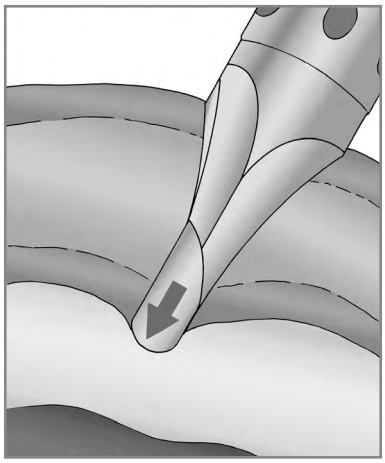
TROTEC
TROCAR WITH AUTOMATIC PROTECTIVE FUNCTION
FOR TROCAR SLEEVES 5.5 MM



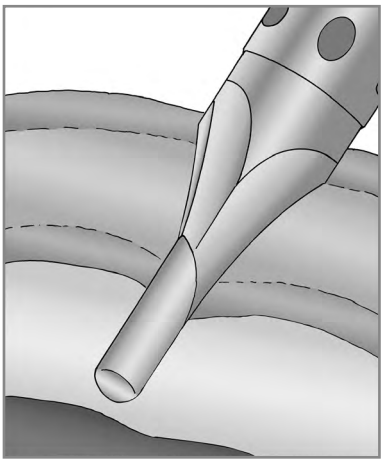
Trocar consisting of:		Product no.	for RIWO-ART trocar sleeve with WL 100 mm, Ø 5,5 mm
Sheath with trocar tip Size 5.5 mm WL 181 mm	**Tapered tip** 	**8921.132**	
Sheath with trocar tip Size 5.5 mm WL 181 mm	**Two-sided tip** 	**8921.134**	
Spring-loaded protective rod WL 184 mm		**8923.135**	



Protective tip automatically pushes back into the cannula through contact with the abdominal wall



The protective tip advances into the free abdomen immediately after penetration of the peritoneum



The atraumatic protective tip in a far distal position prevents perforation of organs and vessels

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TROCAR SLEEVE 5.5 MM/5.8 MM

PLASTIC WITH SEALING MEMBRANE



AUTOCLAVE
134° C / 273° F

Flexible plastic sheath tube with thread	WL	Capacity	with stopcock	Product no.	Tip tapered/blunt Trocar tip blunt Size 5.5 mm	Tip tapered/pointed Trocar tip pointed Size 5.5 mm	Tip triangular Trocar tip triangular Size 5.5 mm
Trocar sleeve straight capacity 5.5 mm WL 62 mm with membrane valve	62 mm	5.5 mm	•	8919.333	8919.3311	8919.3312	8919.3313
				8919.331			
					WL 144 mm	WL 144 mm	WL 144 mm
Trocar sleeve straight capacity 5.5 mm WL 102 mm with membrane valve	102 mm	5.5 mm	•	8919.353	8919.3511	8919.3512	8919.3513
				8919.351			

for curved instruments



AUTOCLAVE
134° C / 273° F

Flexible plastic sheath tube with thread	WL	Capacity	Product no.	Tip tapered/blunt Trocar tip blunt Size 5.5 mm	Tip tapered/pointed Trocar tip pointed Size 5.5 mm	Tip triangular Trocar tip triangular Size 5.5 mm	Tip tapered/blunt Trocar tip blunt Size 5.5 mm
Trocar sleeve straight capacity 5.8 mm WL 62 mm with membrane valve	62 mm	5.8 mm	8905.331	8905.3311	8905.3312	8905.3313	8905.3315
				WL 120 mm	WL 120 mm	WL 120 mm	WL 120 mm
Trocar sleeve straight capacity 5.8 mm WL 102 mm with membrane valve	102 mm	5.8 mm	8905.3515	8905.3511	8905.3512	8905.3513	8905.3515

Accessories	Product no.
Sealing membrane Ø 17 mm, yellow (PACK= 10 PCS)	89.103
Stopcock insert bndl cap 3.0 mm (PACK= 5 PCS)	896.0002

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TROCAR SLEEVE 5.7 MM/7 MM/10 MM/12.5 MM

FLEXIBLE PLASTIC SHEATH TUBE

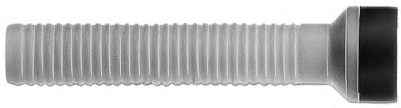


Tip tapered/blunt



Trocar tip blunt

Flexible plastic sheath tube with thread	WL	Capacity	**Product no.**	Size 5.5 mm/WL 83 mm
Trocar sleeve straight capacity 5.7 mm WL 60 mm with rubber cap	60 mm	5.7 mm	**8906.051**	**8906.151**



Tip tapered/blunt



Trocar tip blunt

Ribbed flexible plastic sheath tube	WL	Capacity	**Product no.**	Size 7.3 mm/TL 108 mm
Trocar sleeve flexible capacity 7 mm WL 74 mm with universal seal	74 mm	7 mm	**8906.001**	**8913.11**
				Size 10 mm/TL 85 mm
Trocar sleeve flexible capacity 10 mm WL 56 mm with universal seal	56 mm	10 mm	**8906.011**	**8906.111**
				Size 12.5 mm/TL 86 mm
Trocar sleeve flexible capacity 12.5 mm WL 57 mm with universal seal	57 mm	12.5 mm	**8906.031**	**8906.131**

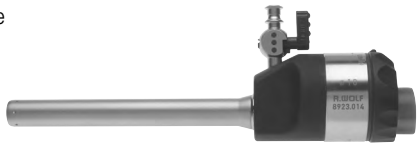
1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

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TROCAR SLEEVE 10 MM

WITH INSUFFLATION STOPCOCK

RIWO-ART trocar sleeves
with magnetic ball valve



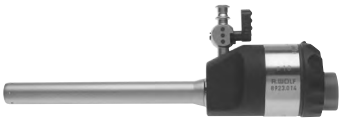
Stainless steel sheath tube	WL	Capacity	Product no.	Tip tapered/blunt Trocar tip blunt Size 10 mm	Tip tapered/pointed Trocar tip pointed Size 10 mm	Tip triangular Trocar tip triangular Size 10 mm
				WL 164 mm	WL 164 mm	WL 164 mm
Trocar sleeve straight capacity 10 mm WL 100 mm	100 mm	10 mm	**8923.014**	**8923.103**	**8923.113**	**8923.123**
Trocar sleeve slanted capacity 10 mm WL 100 mm	100 mm	10 mm	**8923.013**	**8923.103**	**8923.113**	**8923.123**
Trocar sleeve straight capacity 10 mm WL 100 mm with thread	100 mm	10 mm	**8923.024**	**8923.103**	**8923.113**	**8923.123**
Trocar sleeve slanted capacity 10 mm WL 100 mm with thread	100 mm	10 mm	**8923.023**	**8923.103**	**8923.113**	**8923.123**
				WL 214 mm	WL 214 mm	WL 214 mm
Trocar sleeve straight capacity 10 mm WL 150 mm	150 mm	10 mm	**8923.016**	-	**8923.115**	**8923.125**
Trocar sleeve straight capacity 10 mm WL 150 mm with thread	150 mm	10 mm	**8923.026**	-	**8923.115**	**8923.125**

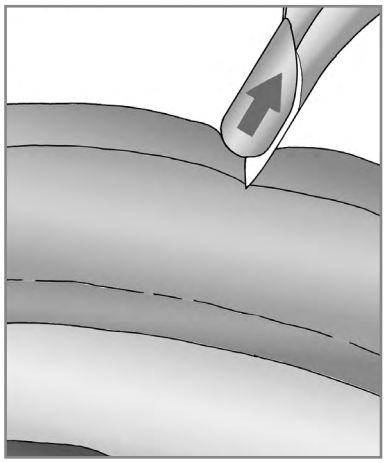
Accessories	Product no.
Spare ball capacity 7 mm	**8923901**
Spare O rings capacity 7 mm (PACK= 10 PCS), capacity Ø 7–12.5 mm	**8923951**
Sealing cap capacity 9.5–10.1 mm (PACK= 10 PCS) red	**8908**
Stopcock insert bndl cap. 3.0 mm (PACK= 5 PCS)	**896.0002**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

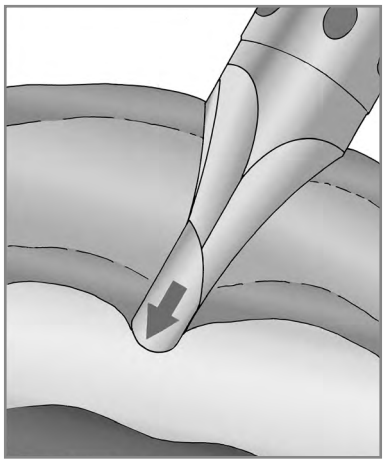
TROTEC
TROCAR WITH AUTOMATIC PROTECTIVE FUNCTION
FOR TROCAR SLEEVES 10 MM



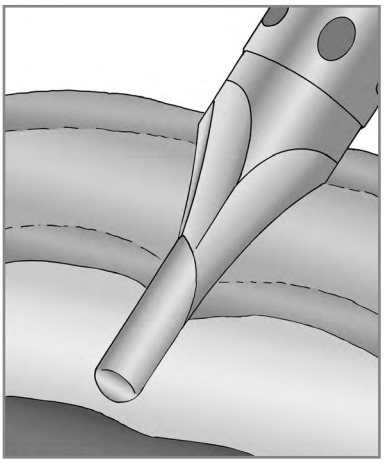
Trocar consisting of:		Product no.	for RIWO-ART trocar sleeve with WL 100 mm, ø 10 mm
Sheath with trocar tip Size 10 mm WL 181 mm	Tapered tip 	8923.132	
Sheath with trocar tip Size 10 mm WL 181 mm	Two-sided tip 	8923.134	
Spring-loaded protective rod WL 184 mm		8923.135	



Protective tip automatically pushes back into the cannula through contact with the abdominal wall



The protective tip advances into the free abdomen immediately after penetration of the peritoneum



The atraumatic protective tip in a far distal position prevents perforation of organs and vessels

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HIGH FLOW TROCAR SLEEVE 10 MM

WITH CONNECTOR FOR HIGH FLOW INSUFFLATION TUBE

RIWO-ART trocar sleeves with magnetic ball valve 				**Tip tapered/blunt** 	**Tip tapered/pointed** 	**Tip triangular** 
				Trocar tip blunt Size 10 mm	**Trocar tip pointed Size 10 mm**	**Trocar tip triangular Size 10 mm**
Stainless steel sheath tube	WL	Capacity	**Product no.**	WL 164 mm	WL 164 mm	WL 164 mm
Trocar sleeve straight capacity 10 mm WL 100 mm 	100 mm	10 mm	**8923.042**	**8923.103**	**8923.113**	**8923.123**
for this:						**Product no.**
Reducing adapter (PACK= 5 PCS) 	for reduction from Ø 7 mm, Ø 10 mm, and Ø 12.5 mm to Ø 5.5 mm					**8923802**

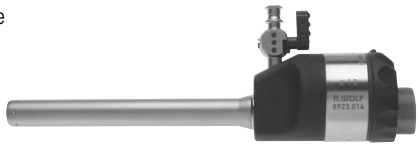
Accessories	Product no.
Spare ball capacity 7 mm	**8923901**
Spare O rings capacity 7 mm (PACK= 10 PCS), capacity Ø 7–12.5 mm	**8923951**
Sealing cap capacity 9.5–10.1 mm (PACK= 10 PCS) red	**8908**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TROCAR SLEEVE 12.5 MM

WITH INSUFFLATION STOPCOCK

RIWO-ART trocar sleeves with magnetic ball valve



				Tip tapered/blunt 	Tip tapered/pointed 	Tip triangular 
				Trocar tip blunt Size 12.7 mm	Trocar tip pointed Size 12.7 mm	Trocar tip triangular Size 12.7 mm
Stainless steel sheath tube	WL	Capacity	Product no.	WL 164 mm	WL 164 mm	WL 164 mm
Trocar sleeve straight capacity 12.5 mm WL 100 mm 	100 mm	12.5 mm	**8924.014**	**8924.103**	**8924.113**	**8924.123**
Trocar sleeve slanted capacity 12.5 mm WL 100 mm 	100 mm	12.5 mm	**8924.013**	**8924.103**	**8924.113**	**8924.123**
				WL 214 mm	WL 214 mm	WL 214 mm
Trocar sleeve straight capacity 12.5 mm WL 150 mm with thread 	150 mm	12.5 mm	**8924.026**	-	**8924.115**	**8924.125**
Trocar sleeve straight capacity 12.5 mm WL 150 mm 	150 mm	12.5 mm	**8924.016**	-	**8924.115**	**8924.125**
for this:						
Reducing adapter (PACK= 5 PCS) 			for reduction from Ø 10 mm to Ø 5.5 mm and Ø 12.5 mm to Ø 5.5 mm			**8923.802**
			for reduction from Ø 12.5 mm to Ø 10 mm			**8924.802**

Accessories	Product no.
Spare ball capacity 7 mm	**8923.901**
Spare O rings capacity 7 mm (PACK= 10 PCS), capacity Ø 7–12.5 mm	**8923.951**
Sealing cap capacity 9.5–10.1 mm (PACK= 10 PCS) red	**89.08**
Stopcock insert bndl cap. 3.0 mm (PACK= 5 PCS)	**896.0002**

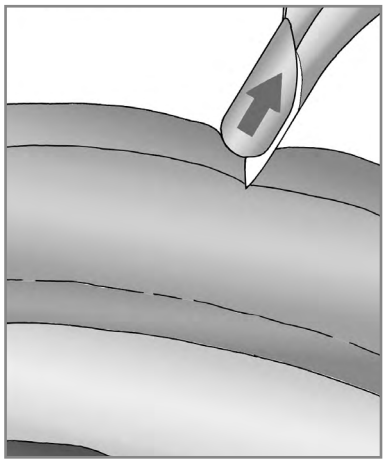
I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

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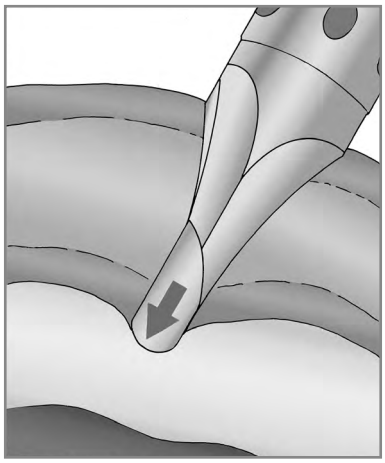
TROTEC
TROCAR WITH AUTOMATIC PROTECTIVE FUNCTION
FOR TROCAR SLEEVES 12.5 MM



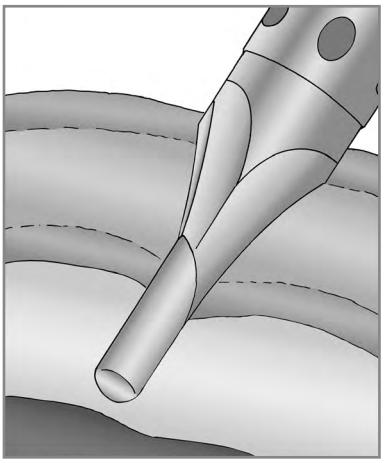
Trocar consisting of:		Product no.	for RIWO-ART trocar sleeve with WL 100 mm, ø 12,5 mm
Sheath with trocar tip Size 12.5 mm WL 181 mm	**Two-sided tip** 	**8924.134**	
Spring-loaded protective rod WL 184 mm		**8923.135**	



Protective tip automatically pushes back into the cannula through contact with the abdominal wall



The protective tip advances into the free abdomen immediately after penetration of the peritoneum

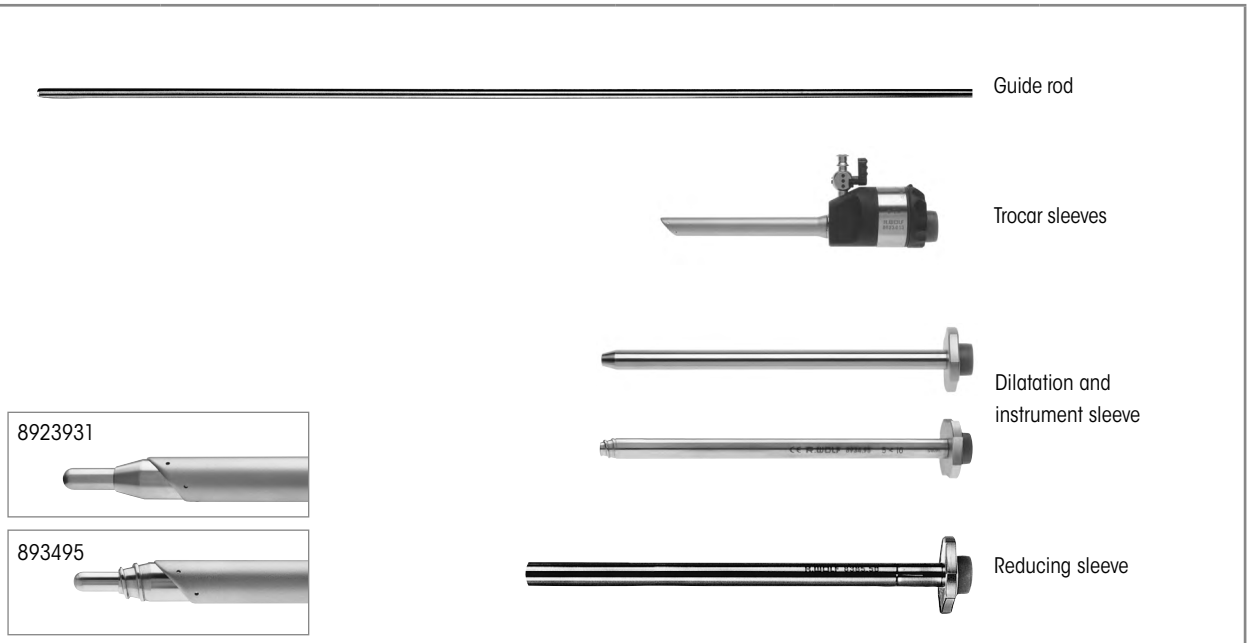


The atraumatic protective tip in a far distal position prevents perforation of organs and vessels

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DILATATION AND EXTRACTION INSTRUMENTS

5.5 TO 10/10 TO 12.5 MM

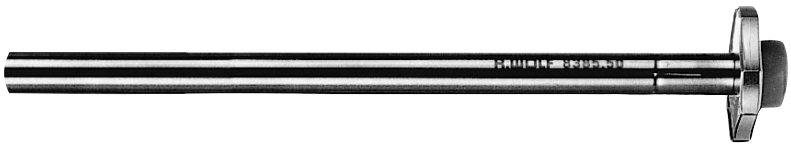


Incision widening	Guide rod	Trocar sleeve slanted	Dilatation sleeve	Instrument sleeve	Reducing sleeve
3.5 mm < 5.5 mm	-	**8921.013** capacity 5.5 mm WL 100 mm			**8383.78** Size 5 mm L 155 mm
5.5 mm < 10 mm	**8923.921** 5.5 mm TL 500 mm	**8923.013** capacity 10 mm WL 100 mm	**8923.931** Size 10 mm WL 170 mm	**8385.50** 10 mm WL 170 mm	
5.0 mm < 10 mm	**8934.951** 5 mm TL 500 mm		**8934.95** Size 10 mm WL 172 mm		
10 mm < 12.5 mm		**8924.013** capacity 12.5 mm WL 100 mm			**8941.901** 12 mm WL 180 mm
5.5 mm < 12.5 mm					**8941.951** 12 mm WL 180 mm
10 mm < 15 mm	**8943.901** 10 mm TL 500 mm				

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REDUCING SLEEVES
FOR RIWO-ART TROCAR SLEEVES



Stainless steel sheath tube	Outer Ø	WL	for instruments	Product no.
Reducing sleeve Size 5 mm WL 155 mm	5 mm	155 mm	3.5 mm	**8383.78**
Instrument sleeve 10 mm WL 170 mm	10 mm	170 mm	5.5 mm	**8385.50**
Reducing sleeve 12 mm WL 180 mm	12 mm	180 mm	10 mm	**8941.901**
Reducing sleeve 12 mm WL 180 mm	12 mm	180 mm	5.5 mm	**8941.951**
for this:				
Reducing adapter (PACK= 5 PCS)		for reduction from Ø 7 mm, Ø 10 mm, and Ø 12.5 mm to Ø 5.5 mm		**8923802**
		for reduction from Ø 12.5 mm to Ø 10 mm		**8924802**

Accessories	Product no.
Sealing cap capacity 3.4–5.1 mm (PACK= 10 PCS) blue	**89.02**
Sealing cap capacity 9.5–10.1 mm (PACK= 10 PCS) red	**8908**

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VERES CANNULAS

FOR CREATION OF THE PNEUMOPERITONEUM



		Outer Ø	WL	Product no.
	**VERES cannula Ø 2.1 mm WL 150 mm**	**2.1 mm**	150 mm	**8302.15**
	VERES cannula Ø 2.1 mm WL 152 mm (standard length)		120 mm	**8302.12**
	VERES cannula Ø 2.1 mm WL 80 mm		80 mm	**8302.08**
for this:				
Tube with Luer-Lock connector				**886.00**

Accessories	Product no.
Stopcock insert bndl cap. 3.0 mm (PACK= 5 PCS)	**896.0002**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

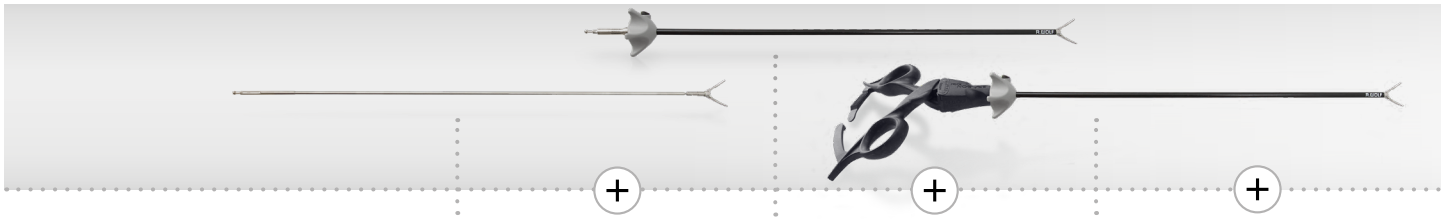
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ERAGON modular

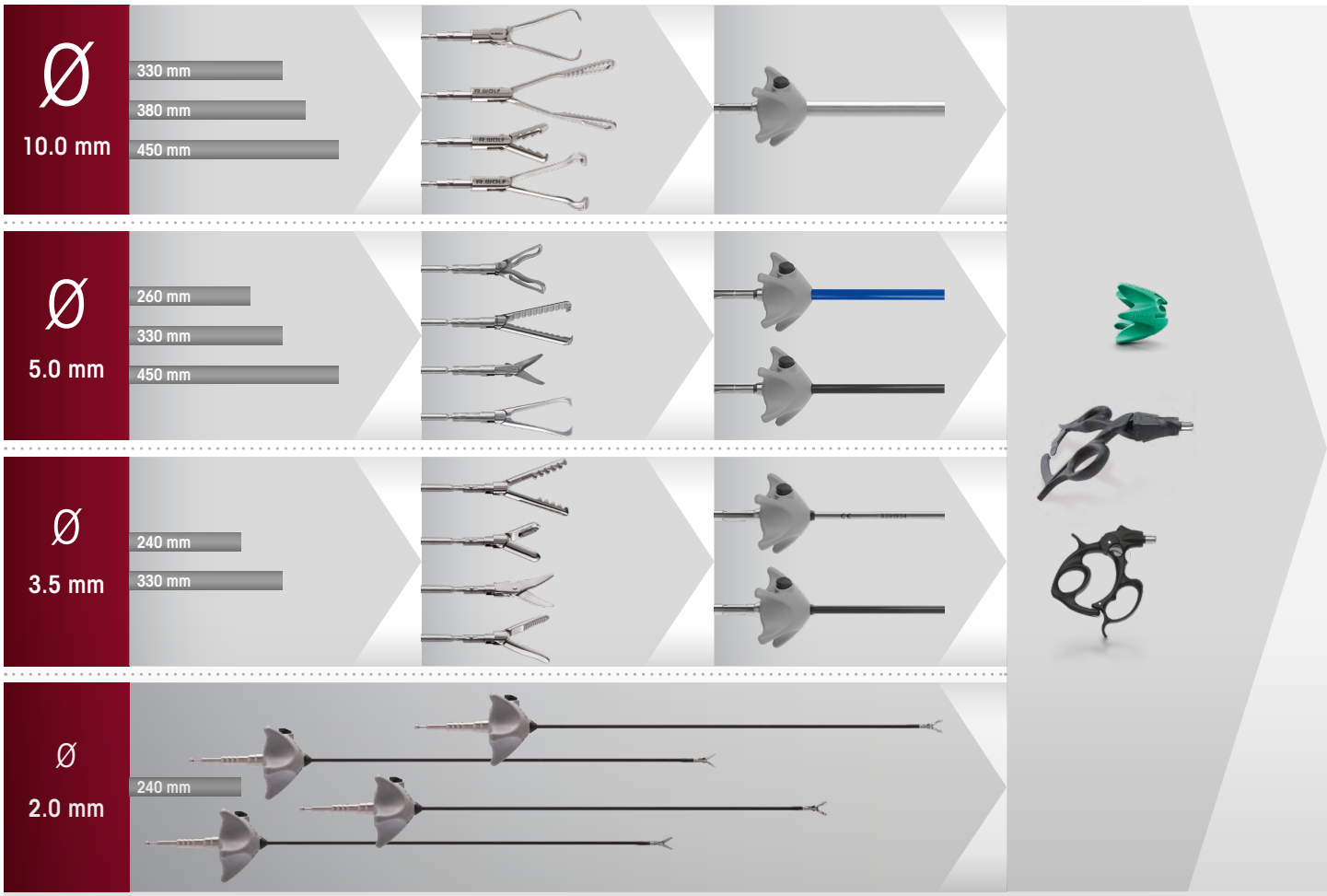
THE LAPAROSCOPIC TOOLBOX

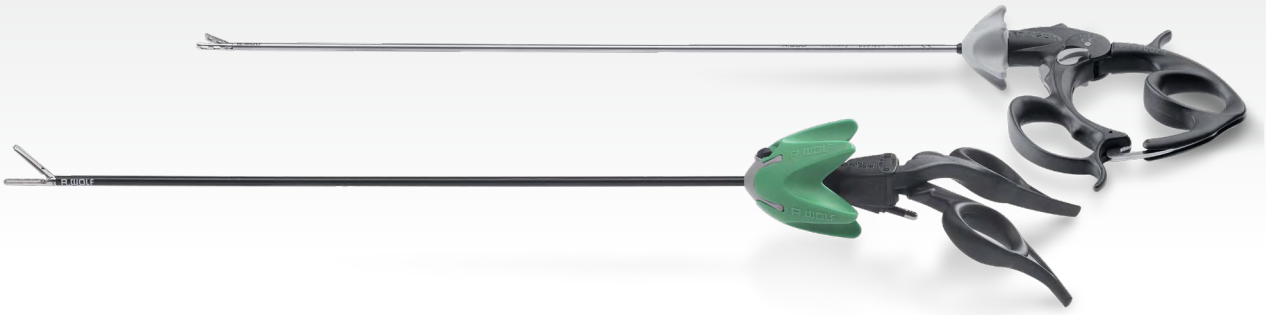
The toolbox principle

ERAGONmodular allows the surgeon to create their ideal laparoscopic set. Ergonomic handles, diameters relevant to all medical practice, useful working lengths, and a range of jaw sections can be combined as necessary. This universal compatibility also ensures that individual trays can comprise fewer instruments – for more efficiency and one way of cutting costs



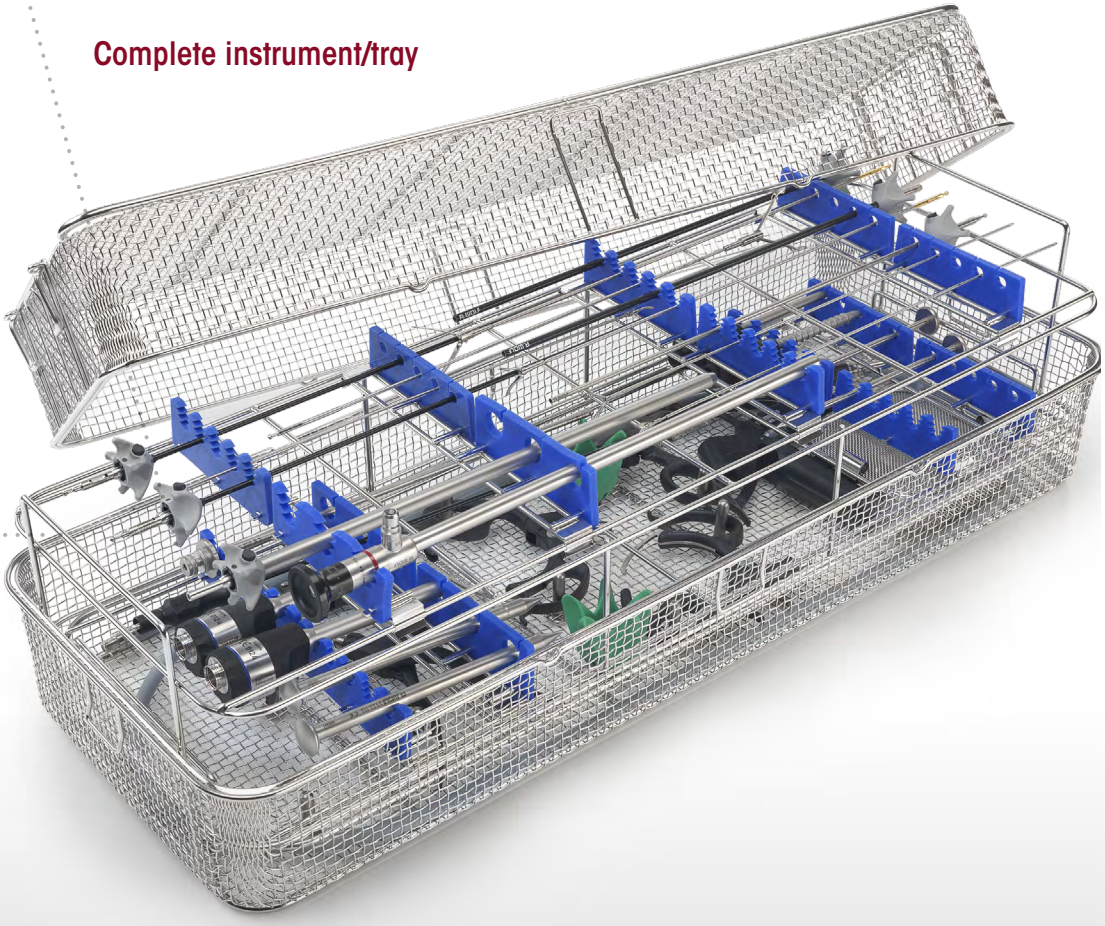
Choose working length	Choose jaw insert	Choose sheath tube	Choose handle





=

Complete instrument/tray



ERAGON modular micro
Ø 2 MM, INSULATED

		Handle, axial		
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**				
		without lock, with HF connector	without lock, with HF connector	
Rotatable knob	**Product no.**	83930083	83930084	
	8988	•	•	

Jaw insert			Sheath tube, Ø 2.0 mm, insulated	Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
					
			WL 240 mm	without lock, with HF, mono	
	JL*	**Product no.**		83930073	**Product no.**
Scissors mono Ø 2 mm bndl  straight, double-action	7 mm	8388200	•	•	**83882007**
Dissector forceps mono Ø 2 mm bndl  straight, double-action	7 mm	8388201	•	•	**83882017**
Atraumatic grasping forceps mono Ø 2 mm bndl  fenestrated, double-action	7 mm	8388202	•	•	**83882027**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON modular micro
Ø 2 MM, INSULATED

Jaw insert			Sheath tube, Ø 2.0 mm, insulated	Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
					
			WL 240 mm	with lock, with HF, mono	
	JL*	Product no.		83930074	Product no.
Grasping forceps mono Ø 2 mm bndl  double-action	7 mm	8388203	•	•	**83882037**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter** Ø 9 mm, length 64 mm	**163502**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON modular mini
Ø 3.5 MM, INSULATED

		Handle, axial		
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**				
		without lock, with HF connector	without lock, with HF connector	
Rotatable knob	**Product no.**	83930083	83930084	
	8988	•	•	

Jaw insert			Sheath tube, Ø 3.5 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
						
			WL 240 mm	WL 330 mm	with lock, with HF, mono	
	JL*	**Product no.**	8390933	8391933	83930074	**Product no.**
Dissector forceps mono Ø 3.5 mm bndl  curved to the left, double-action	15 mm	8390207	•		•	**83902077**
		8391207		•	•	**83912077**
Dissector forceps mono Ø 3.5 mm bndl  long, fine tip, double-action	18 mm	8390221	•		•	**83902217**
		8391221		•	•	**83912217**
Dissector forceps mono Ø 3.5 mm bndl  short, fine tip, double-action	14 mm	8390222	•		•	**83902227**
		8391222		•	•	**83912227**
Dissector forceps mono Ø 3.5 mm bndl  angled, double-action	14 mm	8390223	•		•	**83902237**
		8391223		•	•	**83912237**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

II123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON modular mini
Ø 3.5 MM, INSULATED

Jaw insert			Sheath tube, Ø 3.5 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
							
			WL 240 mm	WL 330 mm	without lock, with HF, mono	with lock, with HF, mono	
	JL*	Product no.	8390933	8391933	83930073	83930074	Product no.
Metzenbaum scissors mono Ø 3.5 mm bndl  double-action	16 mm	8390215	•		•		**83902157**
		8391215		•	•		**83912157**
Metzenbaum scissors mono Ø 3.5 mm bndl  fine-toothed, curved, double-action	14 mm	8390224	•		•		**83902247**
		8391224		•	•		**83912247**
Hook scissors mono Ø 3.5 mm bndl  single-action	8 mm	8390227	•		•		**83902277**
		8391227		•	•		**83912277**
Double spoon forceps mono Ø 3.5 mm bndl 	12 mm	8390216	•			•	**83902167**
		8391216		•		•	**83912167**
Friedel punch mono Ø 3.5 mm bndl 	10 mm	8390217	•			•	**83902177**
		8391217		•		•	**83912177**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter** Ø 9 mm, length 64 mm	**163502**

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ERAGON modular mini
Ø 3.5 MM, UNINSULATED

		Handle, axial		
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**				
		with lock, without HF connector	with lock, without HF connector, not rotatable	
Rotatable knob	**Product no.**	83930082	83930085	
	8988	•		

Jaw insert			Sheath tube, Ø 3.5 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
 JL						
			WL 240 mm	WL 330 mm	with lock, without HF	
	JL*	**Product no.**	8390933	8391933	83930072	**Product no.**
Atraumatic grasping forceps Ø 3.5 mm bndl  fenestrated, double-action	14 mm	8390208	•		•	**83902087**
		8391208		•	•	**83912087**
Atraumatic grasping forceps Ø 3.5 mm bndl  fenestrated, single-action	17 mm	8390218	•		•	**83902187**
		8391218		•	•	**83912187**
Atraumatic grasping forceps Ø 3.5 mm bndl  double fenestrated, curved, single-action	17 mm	8390225	•		•	**83902257**
		8391225		•	•	**83912257**
Atraumatic grasping forceps Ø 3.5 mm bndl  fenestrated, double-action	19 mm	8390226	•		•	**83902267**
		8391226		•	•	**83912267**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular mini
Ø 3.5 MM, UNINSULATED

Jaw insert			Sheath tube, Ø 3.5 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
			 WL 240 mm	WL 330 mm	 with lock, without HF	
	JL*	Product no.	8390933	8391933	83930072	Product no.
Grasping forceps Ø 3.5 mm bndl  fenestrated, double-action	13 mm	8390219	•		•	**83902197**
		8391219		•	•	**83912197**
Grasping forceps Ø 3.5 mm bndl  fenestrated, single-action	17 mm	8390220	•		•	**83902207**
		8391220		•	•	**83912207**
Universal grasping forceps Ø 3.5 mm bndl  double-action	14 mm	8390209	•		•	**83902097**
		8391209		•	•	**83912097**
Babcock forceps Ø 3.5 mm bndl  double-action	19 mm	8390210	•		•	**83902107**
		8391210		•	•	**83912107**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter** Ø 9 mm, length 64 mm	**163503**

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		 with lock	 without lock, with HF connector	 without lock, with HF connector	 with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
			 SL 330 mm	SL 450 mm	 with lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930074	**Product no.**
Maryland dissector forceps mono Ø 5 mm bndl  curved, with fine cross toothing, double-action	21 mm	8393.281	•		•	**83932817**
		8394.281		•	•	**83942817**
Mixter dissector forceps mono Ø 5 mm bndl  angled, fine, pyramid-shaped toothing, double-action	22 mm	8393.283	•		•	**83932837**
Grasping forceps, mono Ø 5 mm bndl  fenestrated, with fine cross toothing, 15 mm long, single-action	21 mm	8393.185	•		•	**83931857**
Grasping forceps, mono Ø 5 mm bndl  fenestrated, with fine cross toothing, 20 mm long, single-action	26 mm	8393.184	•		•	83931847
		8394.184		•	•	**83941847**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated			Handle, pistol-shaped			Complete instrument • Jaw insert with sheath tube • Handle
									
			SL 260 mm	SL 330 mm	SL 450 mm	with lock, without HF	without lock, with HF, mono	with lock, with HF, mono	
	JL*	Product no.	8392933	8393933	8394933	83930072	83930073	83930074	Product no.
Dolphin dissector forceps mono Ø 5 mm bndl  angled, with fine cross-toothing, with channel, narrow, 15 mm long, double-action	17 mm	8393.285		•			•		**83932857**
Dissector forceps mono Ø 5 mm bndl  fine pyramid-shaped toothing, narrow, 18 mm, double-action	23 mm	8393.289		•				•	**83932897**
Atraumatic grasping forceps Ø 5 mm bndl  Channel with wavy tooth edge, 20 mm, single-action	26 mm	8393.292		•		•			**83932925**
Atraumatic grasping forceps Ø 5 mm bndl  Channel with wavy tooth edge, 20 mm, double-action	26 mm	8393.293		•		•			**83932935**
		8394.293			•	•			**83942935**
Grasping forceps, mono Ø 5 mm bndl  fine, pyramid-shaped toothing, narrow double-action	19 mm	8393.288		•				•	**83932887**
Atraumatic grasping forceps mono Ø 5 mm bndl  fenestrated, with cross toothing, double-action	19 mm	8392.181	•					•	**83921817**
		8393.181		•				•	**83931817**
		8394.181			•			•	**83941817**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can be combined with **ERAGONaxial**					
		with lock	without lock, with HF connector	without lock, with HF connector	with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
							
			SL 330 mm	SL 450 mm	with lock, without HF	without lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930072	83930073	**Product no.**
Atraumatic grasping forceps mono Ø 5 mm bndl  smooth, double-action	18 mm	8393.195	•			•	**83931957**
		8394.195		•		•	**83941957**
Babcock forceps Ø 5 mm bndl  Gripping surface with fine cross toothing, double-action	24 mm	8393.186	•		•		**83931867**
Babcock forceps Ø 5 mm bndl  large distal gripping surface with fine cross toothing, double-action	26 mm	8393.187	•		•		**83931877**
		8394.187		•	•		**83941877**
Debakey forceps Ø 5 mm bndl  atraumatic clamp, double-action	39 mm	8393190	•		•		**83931907**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE1x07.10

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
			SL 330 mm	SL 450 mm	 with lock, without HF	 with lock, with HF, mono	
	JL*	Product no.	8393933	8394933	83930072	83930074	Product no.
Debakey forceps Ø 5 mm bndl  atraumatic clamp, double-action	48 mm	8393191	•		•		**83931917**
Grasping forceps, mono Ø 5 mm bndl  with a row of teeth, double-action	17 mm	8393.485	•			•	**83934857**
Grasping forceps, mono Ø 5 mm bndl  with one tooth, fine cross toothing, narrow, double-action	19 mm	8393.486	•			•	**83934867**
Grasping forceps, mono Ø 5 mm bndl  with two teeth, fine cross toothing, single-action	17 mm	8393.487	•			•	**83934877**
Grasping forceps Ø 5 mm bndl  with two teeth wavy gripping surface, double-action	26 mm	8393.490	•		•		**83934907**
		8394.490		•	•		**83944907**
Petelin dissector forceps mono Ø 5 mm bndl  angled 30° to the left, with cross toothing, single-action	17 mm	8393.282	•			•	**83932827**

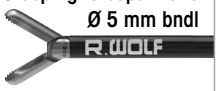
* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		 with lock	 without lock, with HF connector	 without lock, with HF connector	 with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	

Jaw insert			Sheath tube, Ø 5.0 mm, insulated	Handle, pistol-shaped			Complete instrument • Jaw insert with sheath tube • Handle
			 SL 330 mm	 with lock, without HF	 without lock, with HF, mono	 with lock, with HF, mono	
	JL*	**Product no.**	8393933	83930072	83930073	83930074	**Product no.**
Plate-shaped grasping forceps mono Ø 5 mm bndl  fenestrated with fine cross toothing, double-action	18 mm	8393.182	•			•	**83931827**
Grasping forceps mono Ø 5 mm bndl  with cross toothing, double-action	21 mm	8393.183	•		•		**83931837**
Grasping forceps mono Ø 5 mm bndl  distal cross toothing with channel, double-action	15 mm	8393.287	•		•		**83932877**
Claw grasping forceps Ø 5 mm bndl  double-action	27 mm	8393.494	•	•			**83934945**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped			Complete instrument • Jaw insert with sheath tube • Handle
			 SL 330 mm	SL 450 mm	 with lock, without HF	 without lock, with HF, mono	 with lock, with HF, mono	
	JL*	Product no.	8393933	8394933	83930072	83930073	83930074	Product no.
Myoma grasping forceps Ø 5 mm bndl  2x3-claw, single-action	29 mm	8393.488	•		•			**83934887**
Universal grasping forceps mono Ø 5 mm bndl  with pyramid-shaped toothing and cross toothing, double-action	18 mm	8393.481	•				•	**83934817**
Universal grasping forceps Ø 5 mm bndl  pyramid-shaped toothing and cross toothing, double-action	26 mm	8393.482	•		•			**83934827**
Grasping forceps mono Ø 5 mm bndl  Pike-mouth, double-action	20 mm	8393.483	•				•	**83934837**
Biopsy forceps mono Ø 5 mm bndl  with spikes, double-action	13 mm	8393.091	•			•		**83930917**
		8394.091		•		•		**83940917**
Biopsy forceps mono Ø 5 mm bndl  severing, single-action	14 mm	8393.092	•			•		**83930927**
		8394.092		•		•		**83940927**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial				
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**						
		with lock	without lock, with HF connector	without lock, with HF connector	with lock, not rotatable	
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085	
	8988	•	•	•		

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
							
			SL 330 mm	SL 450 mm	with lock, without HF	without lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930072	83930073	**Product no.**
Biopsy forceps mono Ø 5 mm bndl  pointed spoon forceps, single-action	20 mm	8393.093	•			•	**83930937**
Knot pusher Ø 5 mm bndl  with distal recess, double-action	17 mm	8393.345	•		•		**83933457**
		8394.345		•	•		**83943457**
Grasping forceps Ø 5 mm bndl  spring jaw sections fenestrated with cross toothing, double-action	37 mm	8393.188	•		•		**83931887**
Grasping forceps Ø 5 mm bndl  spring jaw sections fenestrated with cross toothing, double-action	47 mm	8393.189	•		•		**83931897**
		8394.189		•	•		**83941897**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
			SL 330 mm	SL450 mm	 with lock, without HF	 with lock, with HF, mono	
	JL*	Product no.	8393933	8394933	83930072	83930074	Product no.
Debakey forceps Ø 5 mm bndl  atraumatic, spring jaw sections with cross toothing, double-action	47 mm	8393.291	•		•		**83932917**
Dissector forceps mono Ø 5 mm bndl  angled, double-action	18 mm	8393192	•			•	**83931927**
		8394192		•		•	**83941927**
Grasping forceps, mono Ø 5 mm bndl  double-action	16 mm	8393193	•		•		**83931937**
		8394193		•	•		**83941937**
Dissector forceps mono Ø 5 mm bndl  double-action	24 mm	8393194	•			•	**83931947**
		8394194		•		•	**83941947**
Dissector forceps mono Ø 5 mm bndl  double-action	30 mm	8393197	•			•	**83931977**
		8394197		•		•	**83941977**
Dissector forceps mono Ø 5 mm bndl  fine tips double-action	33 mm	8393198	•			•	**83931987**
		8394198		•		•	**83941987**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		 with lock	 without lock, with HF connector	 without lock, with HF connector	 with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	

Jaw insert			**Sheath tube, Ø 5.0 mm, insulated**		**Handle, pistol-shaped**	**Complete instrument** • Jaw insert with sheath tube • Handle
 JL			SL 330 mm	SL 450 mm	 with lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930074	**Product no.**
Dissector forceps mono Ø 5 mm bndl  double-action	32 mm	8393199	•		•	**83931997**
		8394199		•	•	**83941997**
Dissector forceps mono Ø 5 mm bndl  fine tip, double-action	19 mm	8393200	•		•	**83932007**
		8394200		•	•	**83942007**
Atraumatic grasping forceps mono Ø 5 mm bndl  atraumatic, with cross toothing, double-action	16 mm	8393210	•		•	**83932107**
Atraumatic grasping forceps mono Ø 5 mm bndl  atraumatic, with cross toothing, double-action	19mm	8393220	•		•	**83932207**
		8394220		•	•	**83942207**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
			SL 330 mm	SL 450 mm	 with lock, without HF	 with lock, with HF, mono	
	JL*	Product no.:	8393933	8394933	83930072	83930074	Product no.:
Atraumatic grasping forceps Ø 5 mm bndl  atraumatic, with pyramid-shaped toothing and cross toothing, double-action	29 mm	8393223	•		•		**83932237**
		8394223		•	•		**83942237**
Atraumatic grasping forceps Ø 5 mm bndl  atraumatic, single fenestrated with cross toothing, double-action	25 mm	8393250	•		•		**83932507**
		8394250		•	•		**83942507**
Atraumatic grasping forceps Ø 5 mm bndl  atraumatic, double fenestrated and curved single-action	32 mm	8393229	•		•		**83932297**
		8394229		•	•		**83942297**
Grasping forceps Ø 5 mm bndl  atraumatic, narrow and rounded, double-action	15 mm	8393230	•		•		**83932307**
		8394230		•	•		**83942307**
Dissector forceps mono Ø 5 mm bndl  curved, double-action	19 mm	8393240	•			•	**83932407**
		8394240		•		•	**83942407**
Dissector forceps mono Ø 5 mm bndl  single fenestrated double-action	17 mm	8393242	•		•		**83932427**
		8394242		•	•		**83942427**

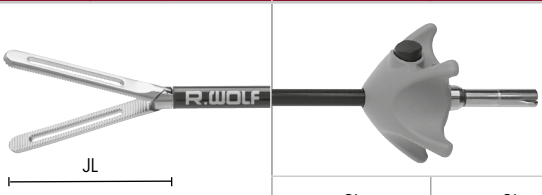
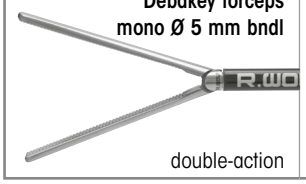
* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial				
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		 with lock	 without lock, with HF connector	 without lock, with HF connector	 with lock, not rotatable	
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085	
	8988	•	•	•		

Jaw insert			**Sheath tube, Ø 5.0 mm, insulated**		**Handle, pistol-shaped**		**Complete instrument** • **Jaw insert with sheath tube** • **Handle**
			SL 330 mm	SL 450 mm	 with lock, without HF	 with lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930072	83930074	**Product no.**
Intestine grasping forceps Ø 5 mm bndl  atraumatic, single fenestrated with cross toothing, double-action	38 mm	8393249	•		•		**83932497**
		8394249		•	•		**83942497**
Debakey forceps mono Ø 5 mm bndl  curved, double-action	35 mm	8393256	•			•	**83932567**
Debakey forceps mono Ø 5 mm bndl  double-action	47 mm	8393258	•			•	**83932587**
		8394258		•		•	**83942587**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
			SL 330 mm	SL 450 mm	 without lock, with HF, mono	
	JL*	Product no.	8393933	8394933	83930073	Product no.
Metzenbaum scissors mono Ø 5 mm bndl  curved, double-action	23 mm	8393.041	•		•	**83930417**
		8394.041		•	•	**83940417**
Metzenbaum micro scissors mono Ø 5 mm bndl  curved, double-action	18 mm	8393.044	•		•	**83930447**
Scissors mono Ø 5 mm bndl  narrow, straight, double-action	20 mm	8393.045	•		•	**83930457**
Hook scissors mono Ø 5 mm bndl  serrated, single-action	14 mm	8393.081	•		•	**83930817**
		8394.081		•	•	**83940817**
Metzenbaum micro scissors mono Ø 5 mm bndl  double-action	21 mm	8393243	•		•	**83932437**
		8394243		•	•	**83942437**
Scissors mono Ø 5 mm bndl  curved and toothed double-action	26 mm	8393246	•		•	**83932467**
		8394246		•	•	**83942467**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can be combined with **ERAGONaxial**					
		with lock	without lock, with HF connector	without lock, with HF connector	with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	

Jaw insert			Sheath tube, Ø 5.0 mm, insulated		Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
 JL							
			SL 330 mm	SL 450 mm	with lock, without HF	without lock, with HF, mono	
	JL*	**Product no.**	8393933	8394933	83930072	83930073	**Product no.**
Scissors mono Ø 5 mm bndl  fine-toothed, fine tip double-action	22 mm	8393248	•			•	**83932487**
		8394248		•		•	**83942487**
Knot pusher Ø 5 mm bndl  with distal recess, double-action	17 mm	8393.345	•		•		**83933457**
		8394345		•	•		**83943457**
Gastric band manipulator Ø 5 mm bndl  90° articulating with distal slot	47 mm	8393253	•		•		**83932537**
		8394253		•	•		**83942537**

* JL = jaw length when jaw section closed (approximate measurements)

HF connection cable: see sheet BDE116/117

Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter** Ø 9 mm, length 64 mm	**163502**

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ERAGON modu blades

Ø 5.0 MM, INSULATED

		Handle, axial
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		
		without lock, with HF connector
Rotatable knob	**Product no.**	83930083
	8988	•

Scissors attachment		**Tension rod Ø 5.0 mm**			**Sheath tube insulated Ø 5.0 mm**			**Handle pistol-shaped**	**Complete instrument** • Jaw insert with sheath tube • Handle
									
		for SL 260 mm	for SL 330 mm	for SL 450 mm	SL 240 mm	SL 310 mm	SL 430 mm	without lock, rotatable with HF connector	
	Product no.	8392934	8393934	8394934	8392935	8393935	8394935	83930073	**Product no.**
Metzenbaum scissors attachment mono	4393040	•			•			•	**83920407**
			•			•		•	**83930407**
(PACK= 10 PCS), sterile, disposable				•			•	•	**83940407**



HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 10 MM, UNINSULATED

		Handle, axial		
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**				
		with lock, without HF connector	with lock, without HF connector, not rotatable	
Rotatable knob	**Product no.**	83930082	83930085	
	8988	•		

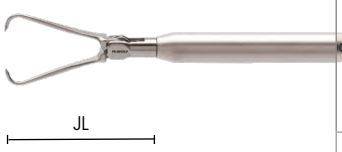
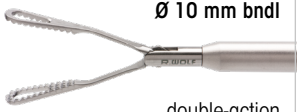
Jaw insert			Sheath tube, Ø 10.0 mm, insulated		Handle, pistol-shaped	Complete instrument • Jaw insert with sheath tube • Handle
						
			SL 327 mm	SL 447 mm	with lock, without HF	
	JL*	**Product no.**	8395902	8396902	83930072	**Product no.**
Maryland dissector forceps Ø 10 mm bndl  double-action	36 mm	8395.225	•		•	**83952257**
		8396225		•	•	**83962257**
Dissector forceps Ø 10 mm bndl  angled, double-action	35 mm	8395.226	•		•	**83952268**
		8396226		•	•	**83962267**
Grasping forceps Ø 10 mm bndl  Pike-mouth double-action	20 mm	8395.236	•		•	**83952368**
		8396236		•	•	**83962367**
Grasping forceps Ø 10 mm bndl  2/3 jaws single-action	49 mm	8395.204	•		•	**83952048**
		8396204		•	•	**83962047**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

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ERAGON modular

Ø 10 MM, UNINSULATED

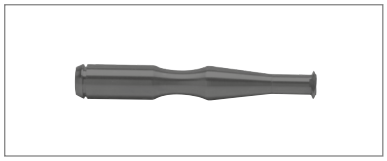
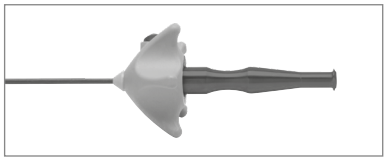
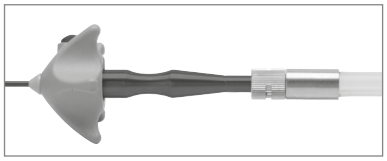
Jaw insert			Sheath tube, Ø 10.0 mm, insulated			Handle, pistol-shaped		Complete instrument • Jaw insert with sheath tube • Handle
								
			SL 327 mm	SL 447 mm	SL 387 mm	with lock, without HF		
	JL*	Product no.	8395902	8396902	8397902	83930072	83930082	Product no.
Claw grasping forceps Ø 10 mm bndl  double-action	38 mm	8395.489	•			•		**83954897**
Claw grasping forceps Ø 10 mm bndl  with additional row of teeth, double-action	38 mm	8395490	•			•		**83954907**
Babcock forceps Ø 10 mm bndl  large distal gripping surface with fine cross toothing, double-action	42 mm	8395.187	•			•		**83951877**
		8396187		•		•		**83961877**
Babcock forceps Ø 10 mm bndl  double-action	38 mm	8395.214	•			•		**83952148**
Plate-shaped grasping forceps Ø 10 mm bndl  double-action	50 mm	8395.234	•			•		**83952347**
		8396234		•		•		**83962347**
Spoon forceps Ø 10 mm bndl  single-action	31 mm	8395.244	•			•		**83952448**
Stapler head grasping forceps Ø 10 mm bndl  angled 30°, double-action		8397.655			•		•	**83976558**

* JL = jaw length when jaw section closed (approximate measurements)/HF connection cable: see sheet BDE116/117

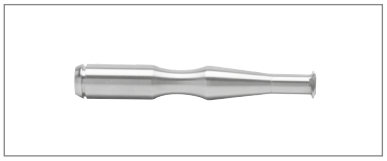
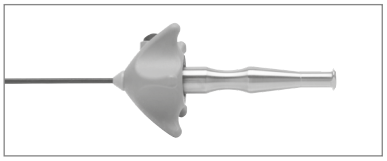
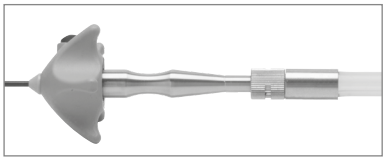
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ERAGON modular
ACCESSORIES

For insulated sheath tubes		Product no.
	For manual and machine reprocessing: **Irrigation adapter** Ø 9 mm, length 64 mm for insulated sheath tubes	**163502**

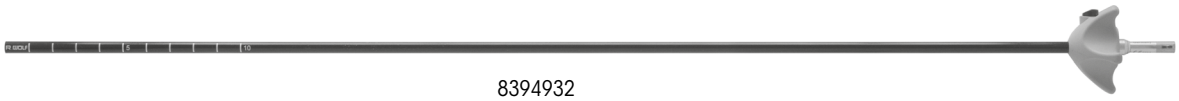




For uninsulated sheath tubes		Product no.
	For manual and machine reprocessing: **Irrigation adapter cleaning** Ø 9 mm, length 64 mm for uninsulated sheath tubes	**163503**



8393932



8394932

		Ø	SL	Product no.
ERAGONmodular 	**Sheath tube insulated Ø 5 mm SL 330 mm** with distal cm scale	5 mm	330 mm	**8393932**
	Sheath tube insulated Ø 5 mm SL 450 mm with distal cm scale	5 mm	450 mm	**8394932**

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HANDLE VARIANTS FOR MODULAR SYSTEMS

Handle, pistol-shaped ERAGON modular	rotatable	with lock	without lock	with HF	without HF	Product no.
	•	•			•	83930072
	•		•	•		83930073
	•	•		•		83930074

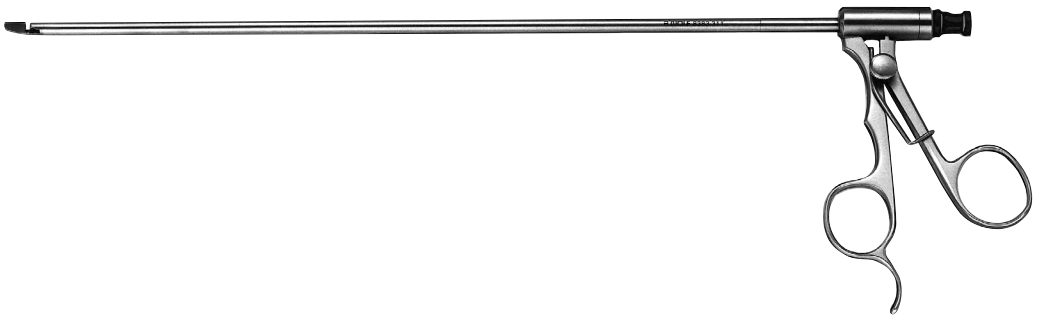
Handle, axial ERAGON axial	rotatable	with lock	without lock	with HF	without HF	Product no.
	•	•			•	83930082
	•		•	•		83930083
	•	•		•		83930084
		•			•	83930085

Optional for 83930082/83930083/83930084:		Product no.
ERAGON axial 	**Rotatable knob** autoclavable	**8988**

All ERAGON modular components are compatible with ERAGON axial

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CHOLANGIOGRAPHY CATHETERGRASPING FORCEPS 5 MM



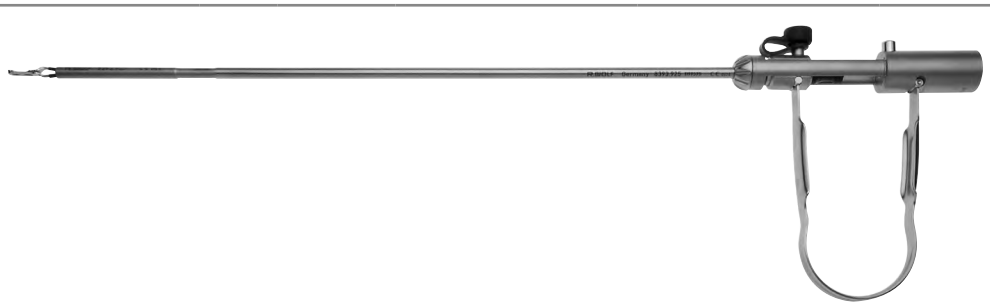
		Outer Ø	WL	Product no.
	**Grasping forceps Ø 5 mm WL 295 mm**	5.0 mm	295 mm	**8383.311**

- For inserting a cholangiography catheter up to 7 Fr into the cystic duct

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BIPOLAR FORCEPS 3.5 MM/5.0 MM

WITH SPRING HANDLE
MODULAR SYSTEM



Grasping forceps jaw insert			Outer tube Ø 3.5 mm SL 348 mm	Screw cap with sleeve Ø 5.0 mm SL 107 mm	Spring handle bipo	complete instrument • Jaw insert • Sliding sleeve • Outer tube • Spring handle
						
	JL*	Product no.	8391.921	8393.978	8393.975	Product no.
Grasping forceps bipo Ø 3.5 mm bndl 	39 mm	8391.715	•	•	•	**8391.742**

Kleppinger grasping forceps jaw insert			Sliding sleeve SL 319 mm	Outer tube Ø 5 mm SL 237 mm	Spring handle bipo	complete instrument • Jaw insert • Sliding sleeve • Outer tube • Spring handle
						
	JL*	Product no.	8393.923	8393.925	8393.975	Product no.
Kleppinger grasping forceps bipo Ø 5 mm bndl 	53 mm	8393.714	•	•	•	**8393.741**

Accessories	Product no.
RIWO rubber cap, jet black	15220.019
Luer sealing cap	15023.153

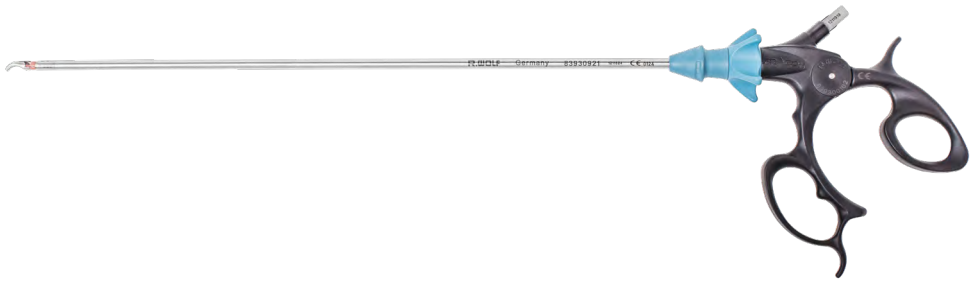
* JL = jaw length when jaw section closed (approximate measurements)
Bipolar connection cable: see sheet BDE118/119

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ERAGON bipolar

MODULAR BIPOLAR INSTRUMENTS, 5.5 MM

ROTATABLE



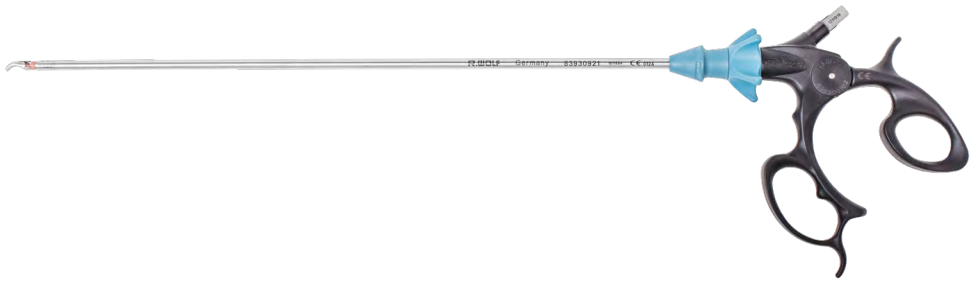
Jaw insert			Sheath tube Ø 5.5 mm		Handle, pistol-shaped, bipo	Complete instrument • Jaw insert • Sheath tube • Handle
						
			SL 320 mm	SL 435 mm	rotatable	
	JL*	Product no.	83930921	82340024	839300102	Product no.
Grasping forceps bipo Ø 5.5 mm bndl 	21 mm	83930031	•		•	839300312
		839400310		•	•	839400312
Maryland dissector bipo Ø 5.5 mm bndl 	23 mm	83930032	•		•	839300322
		839400320		•	•	839400322
Dolphin dissector bipo Ø 5.5 mm bndl 	21 mm	83930033	•		•	839300332
		839400330		•	•	839400332
Grasping forceps bipo Ø 5.5 mm bndl 	23 mm	83930034	•		•	839300342
		839400340		•	•	839400342
Preparation forceps bipo Ø 5.5 mm bndl 	19 mm	83930035	•		•	839300352
		839400350		•	•	839400352

* JL = jaw length when jaw section closed (approximate measurements)
Bipolar connection cable: see sheet BDE118/119

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ERAGON bipolar

MODULAR BIPOLAR INSTRUMENTS, 5.5 MM, ROTATABLE



Jaw insert			Sheath tube Ø 5.5 mm		Handle, pistol-shaped, bipo	Complete instrument • Jaw insert • Sheath tube • Handle
						
			SL 320 mm	SL 435 mm	rotatable	
	JL*	Product no.	83930921	82340024	839300102	Product no.
Sterilization forceps bipo Ø 5.5 mm bndl as per Hasskamp 	19 mm	83930036	•		•	**839300362**
Münster grasping forceps bipo Ø 5.5 mm bndl 	22 mm	83930037	•		•	**839300372**
		83930038	•		•	**839300382**
Maryland dissector bipo Ø 5.5 mm bndl 	15 mm	839400380		•	•	**839400382**
Metzenbaum scissors bipo Ø 5.5 mm bndl 	22 mm	83930041	•		•	**839300412**
		839400410		•	•	**839400412**

* JL = jaw length when jaw section closed (approximate measurements)
Bipolar connection cable: see sheet BDE118/119

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ELECTRODES 2.0 MM/3.5 MM

MONOPOLAR



		Outer Ø	WL	Product no.
	**Coagulation electrode mono 5 FR** **WL 400 mm**	1.67 mm	400 mm	**823.05**
	Coagulation electrode mono 6 FR **WL 400 mm**	2.0 mm	400 mm	**823.06**



		Outer Ø	WL	Product no.
	**Hook electrode mono Ø 3.5 mm** **WL 310 mm**	3.5 mm	310 mm	**8379.452**
	**Hook electrode mono Ø 3.5 mm** **WL 240 mm** with distally extended insulation	3.5 mm	240 mm	**8785.642**
	**Needle electrode mono Ø 3.5 mm** **WL 310 mm**	3.5 mm	310 mm	**8379.482**
	**Coagulation electrode mono Ø 3.5 mm** **WL 310 mm**	3.5 mm	310 mm	**8379.462**

HF connection cable: see sheet BDE116/117

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ELECTRODES 5.0 MM

MONOPOLAR



		Outer Ø	WL	Product no.
	**Coagulation electrode mono Ø 5 mm WL 330 mm**	5.0 mm	330 mm	**8383.40**
	Coagulation electrode mono Ø 5 mm WL 450 mm	5.0 mm	450 mm	**8384.40**



		Outer Ø	WL	Product no.
	**Hook electrode mono Ø 5 mm WL 340 mm**	5.0 mm	340 mm	**8383.423**
	Hook electrode mono Ø 5 mm WL 420 mm		420 mm	**8384.423**
	**Needle electrode mono Ø 5 mm WL 340 mm**	5.0 mm	340 mm	**8383.426**
	**Spatula electrode mono Ø 5 mm WL 340 mm**	5.0 mm	340 mm	**8383.428**
	**Myoma dissector mono Ø 5 mm WL 340 mm**	5.0 mm	340 mm	**8383429**

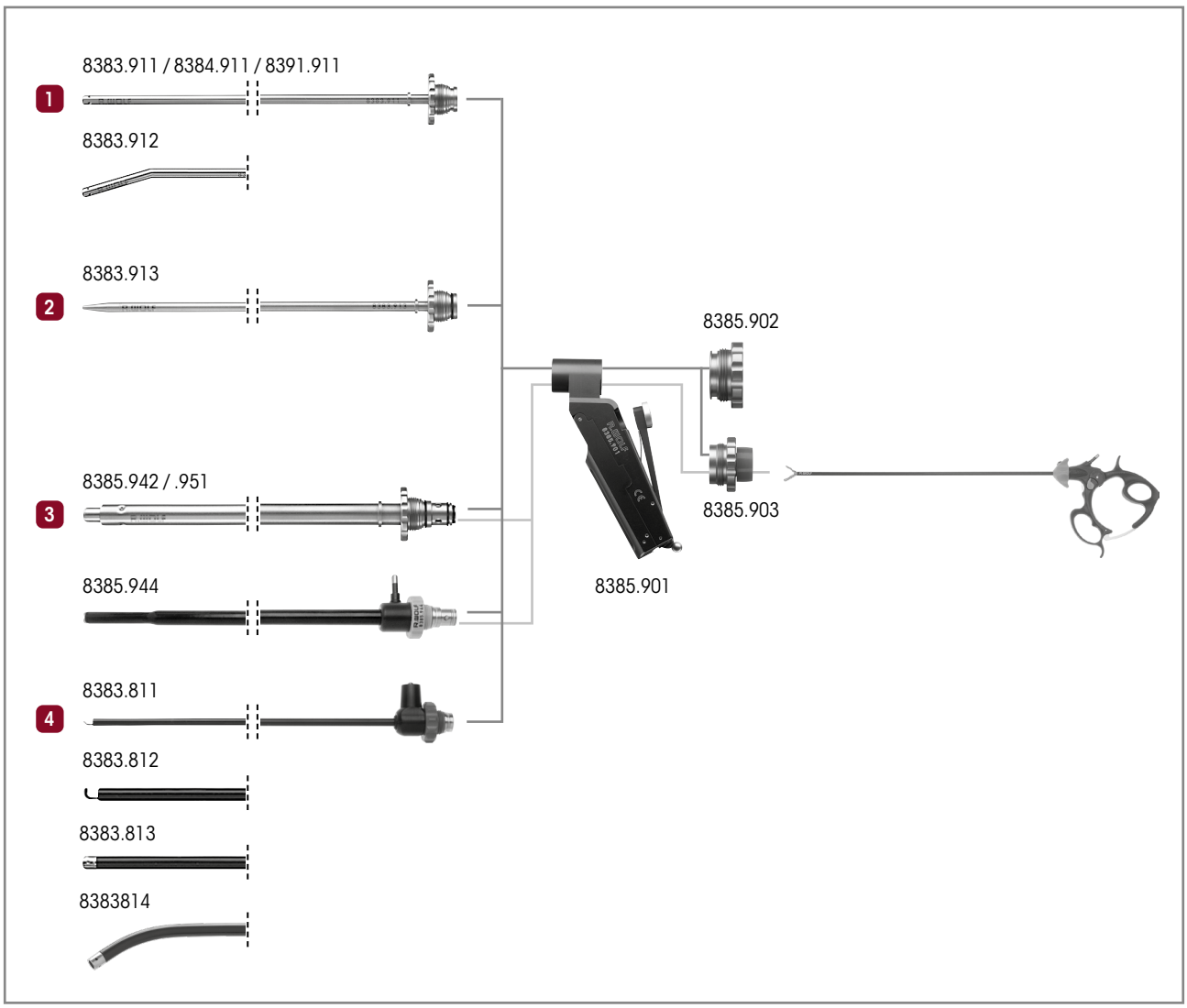
HF connection cable: see sheet BDE116/117

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RICHARD WOLF
spirit of excellence

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

COMBINATION OPTIONS



1 **Suction or irrigation:**

Suction irrigation tube Ø 5 mm WL 310 mm 8383.911
Suction irrigation tube Ø 5 mm WL 450 mm 8384.911
Suction irrigation tube Ø 3.5 mm WL 300 mm 8391.911
Suction irrigation tube curved Ø 5 mm WL 310 mm... 8383.912
for this: **Sealing cap** 8385.902

2 **Blunt aquadissection:**

Pressure irrigation tube Ø 5 mm WL 310 mm 8383.913
for this: **Sealing cap** 8385.902

3 **Suction, irrigation, and use of auxiliary instruments Ø 5 mm:**

Suction irrigation tube Ø 10 mm WL 225 mm..... 8385.942
Suction irrigation tube Ø 10 mm WL 330 mm 8385951
Suction irrigation tube Ø mono 10 mm WL 330 mm,
insulated, with atraumatic preparation tip 8385.944
for this: **Sealing adapter** 8385.903

4 **Preparation of tissue with HF:**

HF suction irrigation tube Ø 5.2 mm WL 317 mm
insulated with integrated HF spatula probe 8383.811
HF suction irrigation tube Ø 5.2 mm WL 317 mm
insulated with integrated HF hook electrode 8383.812
HF suction irrigation tube Ø 5.2 mm WL 317 mm
insulated with integrated HF button electrode 8383.813
HF suction irrigation tube Ø 5.4 mm WL 380 mm
curved with distal openings,
insulated with integrated HF button electrode 8383.814
for this: **Sealing cap** 8385.902

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION HANDLE







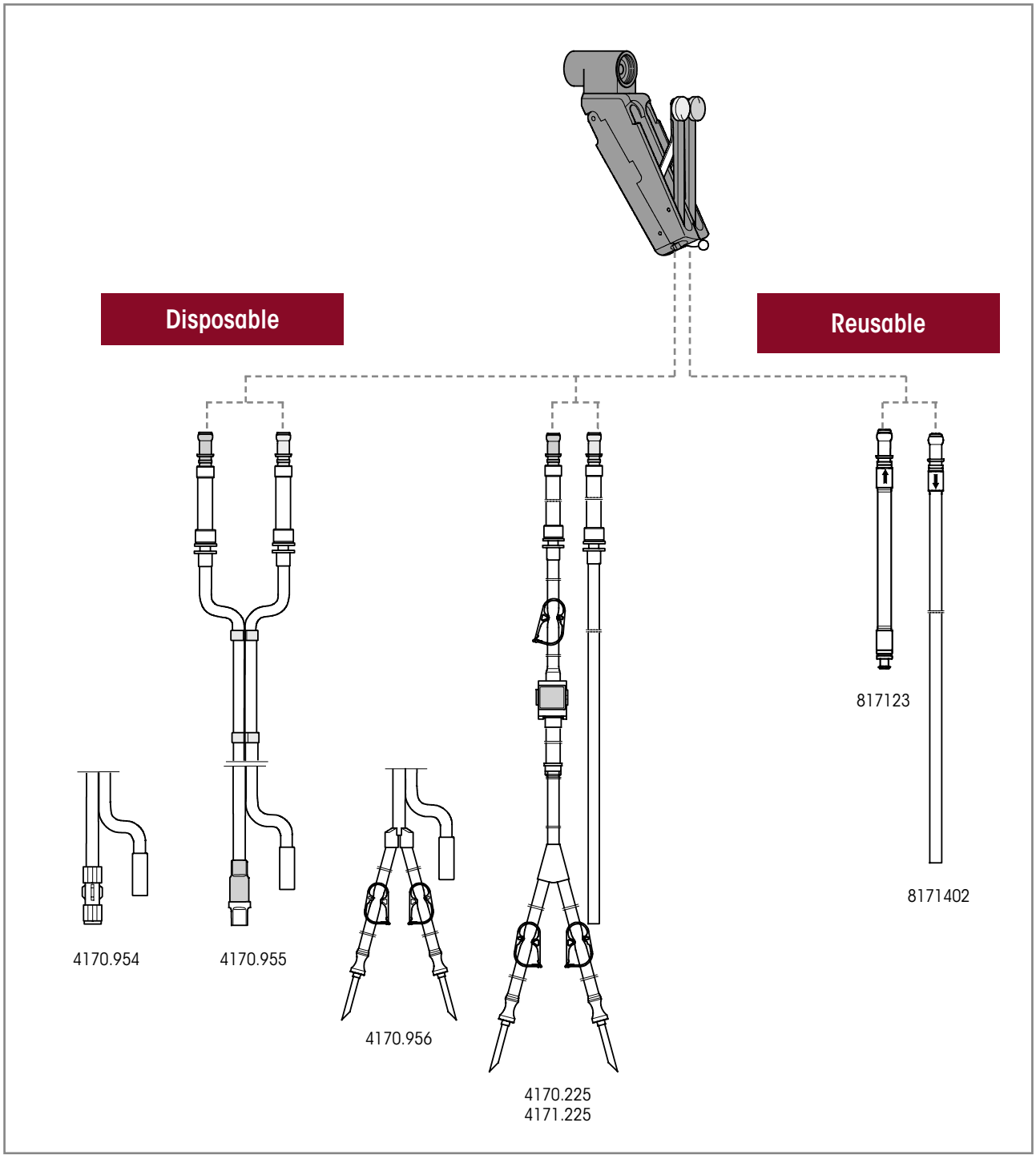
AUTOCLAVE
134° C / 273° F

	Product no.
Suction irrigation handle	**8385.901**
Sealing cap	**8385.902**
Required to use auxiliary instruments Ø 5 mm: **Sealing attachment** with opening and membrane valve	**8385.903**
Spare **Sealing membrane Ø 17 mm** yellow, Ø 17 mm, PACK= 10 PCS, for instruments from 3 to 6 mm	**89.103**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION TUBE SETS – ILLUSTRATION



Suction irrigation tube sets are used in conjunction with the suction irrigation handle 8385.901 and pump-side tube systems as well as corresponding collection and secretion containers and/or vacuum pumps (e.g., FLUID CONTROL LAP 2216, LAPARO PUMP 2215)

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION TUBE SETS FOR SUCTION IRRIGATION HANDLE 8385.901

Disposable		Product no.
Suction irrigation tube set, L 3 m (PACK= 10 PCS), sterile	**Irrigation tube**: With Luer-Lock, for connection to the irrigation tube of a suction irrigation tube set, e.g., irrigation tube of the Endo-Irrigator 2211 **Suction tube**: For connection to a collection or secretion container and/or vacuum pump	**4170.954**
Suction irrigation tube set with care-lock, L 3 m (PACK= 10 PCS), sterile	**Irrigation tube**: With CARE-LOCK, for connection to an irrigation container **Suction tube**: For connection to a collection or secretion container and/or vacuum pump	**4170.955**
Suction irrigation tube set with piercing spike, L 3 m (PACK= 10 PCS), sterile	**Irrigation tube**: With 2 piercing spikes, for connection to an irrigation container **Suction tube**: For connection to a collection or secretion container and/or vacuum pump	**4170.956**
Suction irrigation tube set with piercing spike, L 3 m (PACK= 10 PCS), sterile	**Irrigation tube:** With 2 piercing spikes, for connection to an irrigation container, plus Laparo Pump 2215 and Fluid Control Lap 2216 **Suction tube:** For connection to a collection or secretion container and/or vacuum pump Also observe instruction manual GA-A 167	**4170.225**
Suction irrigation tube set, L 3 m (PACK= 10 PCS), sterile	**Irrigation tube**: With 2 piercing spikes, for connection to an irrigation container, and Fluid Control Lap 2216 **Suction tube**: For connection to a collection or secretion container and/or vacuum pump Also observe instruction manual GA-A 276	**4171.225**
Secretion container, 2.5 l	2.5 liters (PACK= 2 PCS)	**41706566**
Tube set for suction (2 connections)	sterile disposable product (PACK= 10 PCS), for connecting instruments to collecting container	**T0503-01**

Reusable		Product no.
Irrigation tube L 1.2 m	**Irrigation tube**: With Luer-Lockconnection for connection to the irrigation tube of a suction irrigation tube set, e.g., 8171223 or 8170.223	**817123**
Suction tube L 3 m	silicone, for suction irrigation handle 8385.901	**8171402**
Secretion container, 2 l	2 liters, with lid	**8170.655**
Secretion container, 2 l	2 liters, no lid	**8170.6551**

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MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION TUBES



		Outer Ø	WL	Product no.
	**Suction irrigation tube Ø 3.5 mm WL 300 mm**	3.5 mm	300 mm	**8391.911**
	**Suction irrigation tube Ø 5 mm WL 310 mm**	5.0 mm	310 mm	**8383.911**
	Suction irrigation tube Ø 5 mm WL 450 mm	5.0 mm	450 mm	**8384.911**
	Suction irrigation tube curved Ø 5 mm WL 310 mm	5.0 mm	310 mm	**8383.912**
	**Pressure irrigation tube Ø 5 mm WL 310 mm**	5.0 mm	310 mm	**8383.913**
for use of 5 mm auxiliary instruments				
 capacity 5.0 mm	**Suction irrigation tube Ø 10 mm WL 225 mm**	10.0 mm	225 mm	**8385.942**
	Suction irrigation tube Ø 10 mm WL 330 mm	10.0 mm	330 mm	**8385.951**
 insulated, with atraumatic preparation tip	**Suction irrigation tube mono Ø 10 mm WL 330 mm**	10.0 mm	330 mm	**8385.944**
	required for 8385.951: **Sealing attachment** with opening and membrane valve Sealing membrane Ø 17 mm			**8385.903**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION TUBES



		Outer Ø	WL	Product no.
 insulated with integrated HF spatula probe	**HF suction irrigation tube Ø 5.2 mm WL 317 mm**	5.2 mm	317 mm	**8383.811**
 insulated with integrated HF hook probe	**HF suction irrigation tube Ø 5.2 mm WL 317 mm**	5.2 mm	317 mm	**8383.812**
 insulated with integrated HF button electrode	**Suction irrigation tube Ø 5 mm WL 450 mm**	5 mm	317 mm	**8383.813**
as alternative to suction irrigation handle:				
	**Suction irrigation adapter** with maintenance-free two-way stopcock, for multifunctional suction irrigation system			**8583819**

Accessories	Product no.
HF connection cable	**See page BDE116/117**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MULTIFUNCTIONAL SUCTION IRRIGATION SYSTEM

SUCTION IRRIGATION TUBES

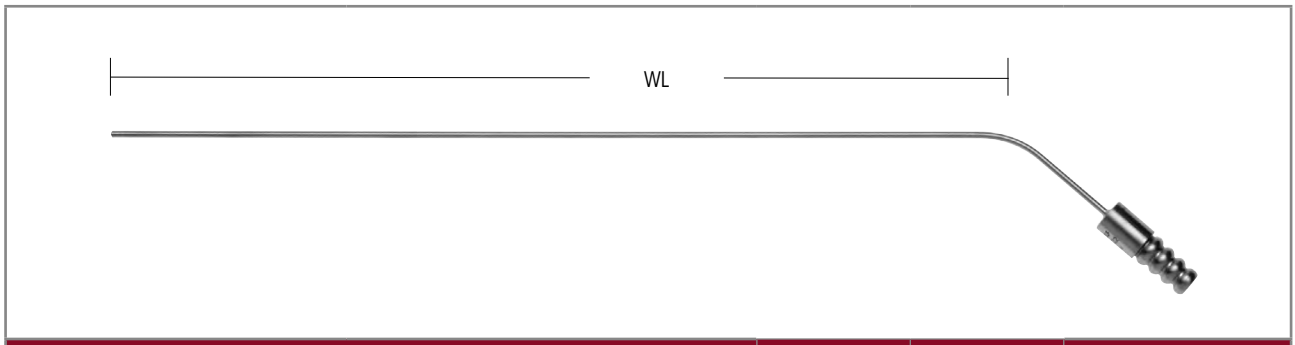


		Outer Ø	WL	Product no.
	**Suction tube OD 2.8 mm WL 450 mm**	2.8 mm	450 mm	**8380.68**
	**Suction irrigation tube Ø 5 mm WL 310 mm**	5.0 mm	310 mm	**8383.911**
	Suction irrigation tube Ø 5 mm WL 450 mm	5.0 mm	450 mm	**8384.911**
	Suction irrigation tube curved Ø 5 mm WL 310 mm	5.0 mm	310 mm	**8383.912**
	**Pressure irrigation tube Ø 5 mm WL 310 mm**	5.0 mm	310 mm	**8383.913**
for use of 5 mm auxiliary instruments				
 capacity 5.0 mm	**Suction irrigation tube Ø 10 mm WL 225 mm**	10.0 mm	225 mm	**8385.942**
	Suction irrigation tube Ø 10 mm WL 330 mm	10.0 mm	330 mm	**8385.951**
 insulated, with atraumatic preparation tip	**Suction irrigation tube mono Ø 10 mm WL 330 mm**	10.0 mm	330 mm	**8385.944**
	required for 8385.951: **Sealing attachment** with opening and membrane valve, sealing membrane Ø 17 mm			**8385.903**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ACCESSORIES

FOR SUCTION AND IRRIGATION



		Outer Ø	WL	Product no.
 central, lateral openings, rigid	**suction tube OD 2 mm WL 250 mm**	2.0 mm	250 mm	**8291.22**
	suction tube OD 2.5 mm WL 250 mm	2.5 mm	250 mm	**8291.23**
	suction tube OD 3 mm WL 250 mm	3.0 mm	250 mm	**8291.24**
	suction tube OD 4 mm WL 500 mm	4.0 mm	500 mm	**8291.45**



		Outer Ø	WL	Product no.
	**Suction tube OD 2.8 mm WL 450 mm**	2.8 mm	450 mm	**8380.68**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ACCESSORIES

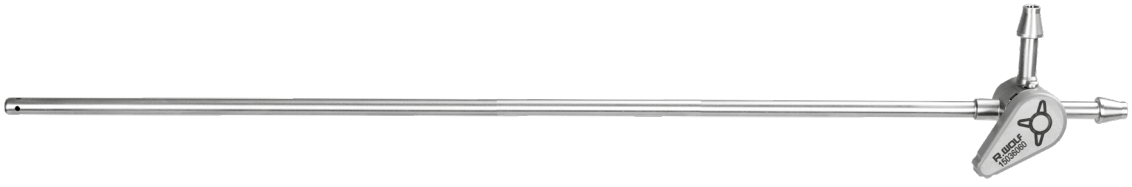
FOR SUCTION AND IRRIGATION



		Outer Ø	WL	Product no.
 graduated, with 3 mm Luer connector	**Suction tube graduated Ø 5 mm WL 330 mm**	5.0 mm	330 mm	**8383.68**



		Outer Ø	WL	Product no.
 with stop valve	**Suction irrigation tube Ø 5 mm WL 300 mm**	5.0 mm	300 mm	**8383.94**



		Outer Ø	WL	Product no.
 with maintenance-free two-way stopcock, sheath tube, with distal openings, reusable	**Suction irrigation tube WL 290 mm**	5.0 mm	290 mm	**8583732**
	Suction irrigation tube WL 410 mm	5.0 mm	410 mm	**8584732**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ACCESSORIES / DISPOSABLE HAND BLOWER

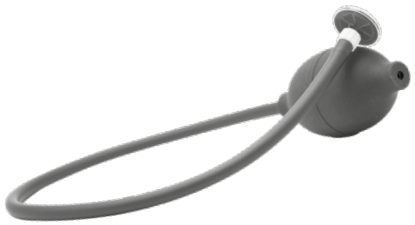
FOR SUCTION AND IRRIGATION



		Outer Ø	WL	Product no.
 with Luer connector	**Suction irrigation tube Ø 3 mm WL 300 mm**	3.0 mm	330 mm	**8383.72**



		Outer Ø	WL	Product no.
 with Luer connector and a valve	**HF coagulation suction device mono Ø 5 mm WL 315 mm**	5.0 mm	315 mm	**8383.71**
	HF coagulation suction device mono Ø 5 mm WL 350 mm	5.0 mm	450 mm	**8384.71**



for air insufflation		Ø	TL	Product no.
	**Hand blower** with disposable filter, sterile (PACK= 5 PCS)	49 mm	567 mm	**412700**

HF connection cable: see sheet BDE116/117

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TISSUE RETRACTOR 5 MM



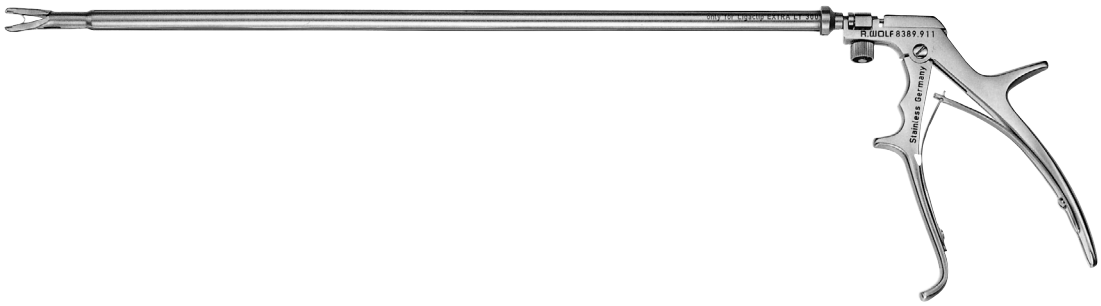
		Outer Ø	WL	Product no.
	**tissue retractor** **Ø 5 mm WL 320 mm**	5.0 mm	320 mm	**8383.691**

Accessories	Product no.
Luer sealing cap	**887.00**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

CLIP APPLICATOR 10 MM

FOR SUCTION AND IRRIGATION



		Outer Ø	WL	Product no.
	**Clip applicator Ø 10 mm WL 340 mm**	10 mm	340 mm	**8389.911**
for this:				**Product no.**
	**Introduction sleeve 10 mm WL 80 mm** with sealing cap			**8389.991**
For clip ligation with Ethicon® Ligaclip® EXTRA LT 300				
Ethicon® Ligaclips® (PACK= 108 PCS)				**8389.915**

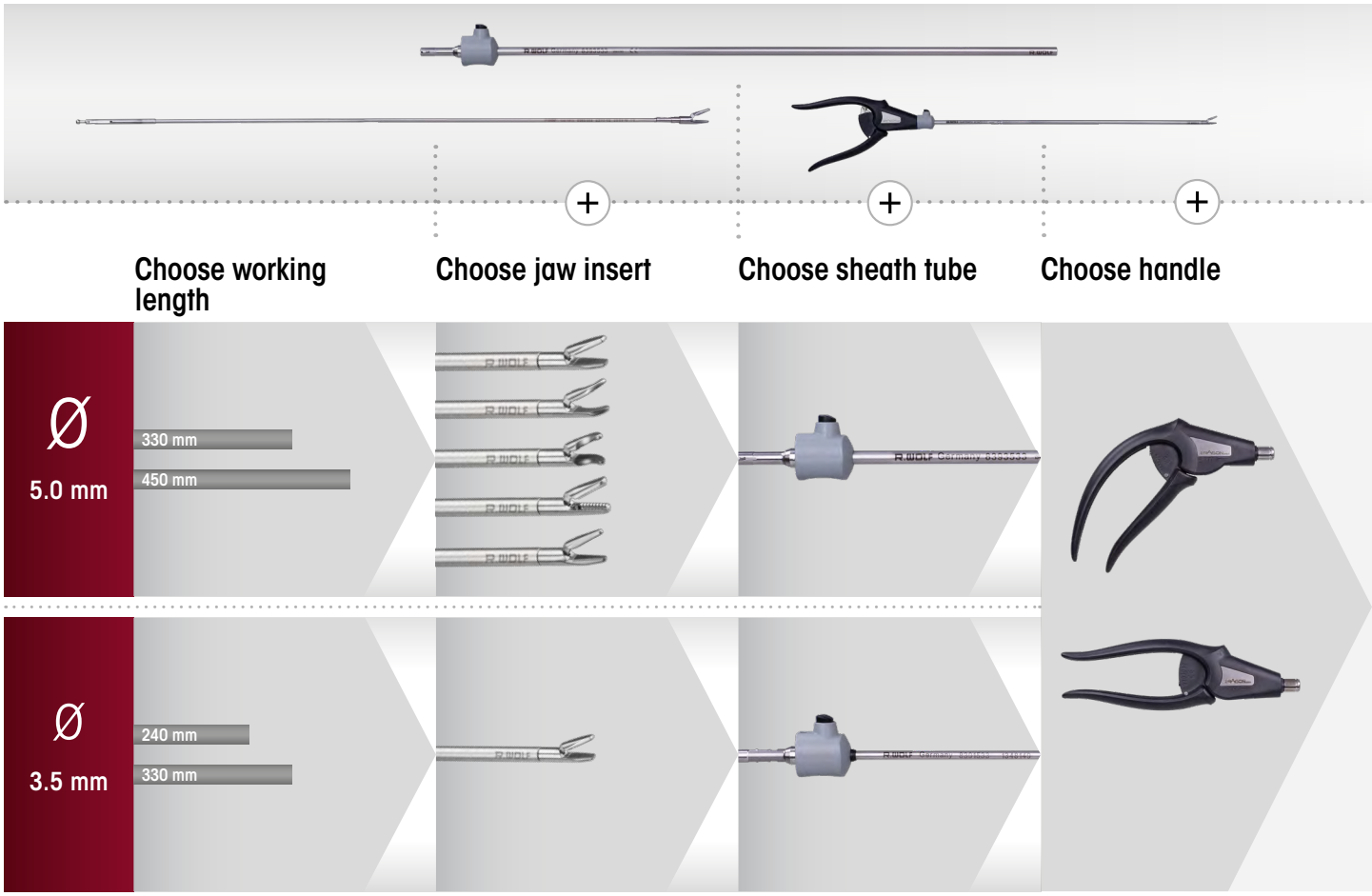
Accessories	Product no.
Sealing cap capacity 9.5–10.1 mm	**89.08**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON stitch

THE ERGONOMIC GENERATION OF NEEDLE HOLDERS

Thanks to the custom combination options it offers, **ERAGONstitch** can accommodate any user requirement. The way in which it brings together ergonomics, versatility, modularity, and precision sets new standards in comfort



ERAGONstitch needle holders



ERAGON stitch

NEEDLE HOLDER Ø 3.5 MM



Needle holder jaw insert			Sheath tube, Ø 3.5 mm		Needle holder handle		Complete instrument • Jaw insert • Sheath tube • Handle
			SL 240 mm	SL 330 mm	with on-off detent mechanism, single-action		
					Axial	Angled	
	JL*	Product no.	8390533	8391533	8393943	8393944	Product no.
Needle holder jaw insert Ø 3.5 mm bndl	12 mm	8391505	•		•		**83915053**
			•			•	**83915054**
straight with carbide insert single-action		8391506		•	•		**83915063**
				•		•	**83915064**

* JL = jaw length when jaw section closed (approximate measurements)

Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter cleaning** Ø 9 mm, length 64 mm for uninsulated sheath tubes	**163503**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON stitch
NEEDLE HOLDER Ø 5.0 MM

Needle holder jaw insert			Sheath tube, Ø 5.0 mm		Needle holder handle		Complete instrument • Jaw insert • Sheath tube • Handle
			SL 330 mm	SL 450 mm	with on-off detent mechanism, single-action		
					axial	angled	
	JL*	Product no.	8393533	8394533	8393943	8393944	Product no.
Needle holder Ø 5 mm bndl straight with carbide insert single-action	19 mm	8393507	•		•		**83935073**
			•			•	**83935074**
		8394507		•	•		**83945073**
				•		•	**83945074**
Needle holder Ø 5 mm bndl straight and narrow with carbide insert single-action	19 mm	8393508	•		•		**83935083**
			•			•	**83935084**
		8394508		•	•		**83945083**
				•		•	**83945084**
Needle holder jaw insert Ø 5 mm bndl straight, with self-righting function single-action	19 mm	8393509	•		•		**83935093**
			•			•	**83935094**
		8394509		•	•		**83945093**
				•		•	**83945094**

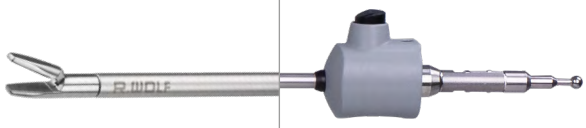
* JL = jaw length when jaw section closed (approximate measurements)

Accessories for manual and machine reprocessing		Product no.
	Irrigation adapter cleaning Ø 9 mm, length 64 mm for uninsulated sheath tubes	**163503**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON stitch

NEEDLE HOLDER Ø 5.0 MM

Needle holder jaw insert			Sheath tube, Ø 5.0 mm		Needle holder handle		Complete instrument • Jaw insert • Sheath tube • Handle
							
			SL 330 mm	SL 450 mm	with on-off detent mechanism, single-action		
					Axial	Angled	
	JL*	Product no.	8393533	8394533	8393943	8393944	Product no.
Needle holder Ø 5 mm bndl  curved right with carbide insert single-action	19 mm	8393518	•		•		**83935183**
			•			•	**83935184**
		8394518		•	•		**83945183**
				•		•	**83945184**
Needle holder Ø 5 mm bndl  Curved left with carbide insert single-action	19 mm	8393519	•		•		**83935193**
			•			•	**83935194**
		8394519		•	•		**83945193**
				•		•	**83945194**

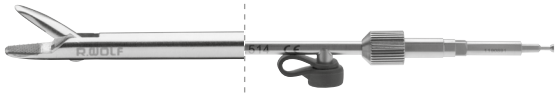
Accessories for manual and machine reprocessing		Product no.
	**Irrigation adapter cleaning** Ø 9 mm, length 64 mm for uninsulated sheath tubes	**163503**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

NEEDLE HOLDER Ø 3.5 MM/5 MM

MODULAR SYSTEM



Needle holder jaw insert with sheath				Needle holder handle, axial	Complete instrument • Jaw insert • Sheath tube • Handle
				 single-action locking mechanism, can be disabled	
	Product no.	Ø	SL	8393.941	Product no.
Needle holder Ø 3.5 mm bndl  with carbide insert	8391504	3.5 mm	340 mm	•	**8391.501**
Needle holder Ø 5 mm bndl  for straight needles	8393504	5 mm	340 mm	•	**8393.501**
Needle holder Ø 5 mm bndl  with carbide insert	8393505	5 mm	340 mm	•	**8393.502**
	8394505	5 mm	430 mm	•	**8394.502**
Needle holder Ø 5 mm bndl  curved to the right with carbide insert	8393514	5 mm	340 mm	•	**8393.511**
	8394514	5 mm	430 mm	•	**8394.511**
Needle holder Ø 5 mm bndl  curved to the left with carbide insert	8393515	5 mm	340 mm	•	**8393.512**
	8394515	5 mm	430 mm	•	**8394.512**
Sarbu needle holder Ø 5 mm bndl 	8393506	5 mm	340 mm	•	**8393.503***
	8394506	5 mm	430 mm	•	**8394.503***

* with automatic needle placement apparatus and cutting edge

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

NEEDLE HOLDER HANDLE

Needle holder handle, axial	not rotatable	with lock	without HF	Product no.
	•	•	•	8393.941

Needle holder handle ERGON stitch	axial	angled	with on-off detent mechanism	single-action	Not rotatable	Product no.
	•		•	•	•	8393943
		•	•	•	•	8393944

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ERAGON modular

MODULAR KNOT PUSHER Ø 5.0 MM, INSULATED

		Handle, axial			
ERAGON axial All jaw inserts and sheath tubes can also be combined with **ERAGONaxial**		 with lock	 without lock, with HF connector	 without lock, with HF connector	 with lock, not rotatable
Rotatable knob	**Product no.**	83930082	83930083	83930084	83930085
	8988	•	•	•	•

Jaw insert			**Sheath tube, Ø 5.0 mm, insulated**		**Handle**	**Complete instrument** • Jaw insert with sheath tube • Handle
ERAGON modular  JL			 SL 330 mm	SL 450 mm	 with lock, without HF	
	JL*	**Product no.**	8393933	8394933	83930072	**Product no.**
Knot pusher Ø 5 mm bndl  with distal recess, double-action	17 mm	8393.345	•		•	**83933457**
		8394345		•	•	**83943457**

* JL = jaw length when jaw section closed (approximate measurements)
HF connection cable: see sheet BDE116/117

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

KNOT PUSHER 5 MM

FOR ENDOSCOPIC SUTURING



		Outer Ø	WL	TL	Product no.
 for intraabdominal knots	**Knot pusher Ø 3.7 mm WL 330 mm**	3.7 mm	330 mm	380 mm	**8383.55**
 for extracorporeal knots	**Knot pusher Ø 3.7 mm WL 330 mm**	3.7 mm	330 mm	380 mm	**8383.551**



		Outer Ø	WL	TL	Product no.
 with distal notch and lateral opening for optimum knotting, extremely atraumatic tip for use as a surgical probe	**Knot pusher Ø 5 mm WL 330 mm** as per Bueß	5.0 mm	330 mm	380 mm	**8383.552**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

Endoscopically controlled fascia closure system

AS PER BUSCHE



		Product no.
 for subcutaneous fascia suture	Sealing cone Ø 10–12 mm	8934.915
	Sealing cone Ø 12–15 mm	8943.915
	Sealing cone Ø 15–20 mm	8945.915

		Ø	WL	Product no.
 Needle forceps with active suture holder	**Needle forceps Ø 2.45 mm WL 160 mm**	2.45 mm	160 mm	8756.201

I1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

CANNULAS 3.0 MM/4.7 MM



with Luer connector		Outer Ø	WL	Product no.
 Tip Ø 1.4 mm	**Injection cannula Ø 3 mm WL 340 mm**	3.0 mm	340 mm	**8379.732**



with 3 mm Luer connector		Ø	WL	Product no.
 Tip Ø 1.8 mm	**Injection cannula Ø 4.7 mm WL 350 mm**	4.7 mm	350 mm	**8383.65**



with suction regulator and 4 mm Luer connector		Ø	WL	Product no.
 Tip Ø 1.8 mm	**Puncture cannula Ø 4.7 mm WL 320 mm**	4.7 mm	320 mm	**8383.49**

for this:		WL	Product no.
	**Introduction sleeve size 5.5 mm WL 45 mm** This sleeve prevents damage to the cannula tip when the trocar sleeve valve is opened	45 mm	**8383.00**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

SURGICAL PROBES



		Ø	WL	Product no.
	**Surgical probe 3.5 mm WL 250 mm** graduated	3.5 mm	250 mm	**8379.672**



		Ø	WL	Product no.
	**Surgical probe Ø 5 mm WL 328 mm** graduated	5.0 mm	328 mm	**8383.66**
	Surgical probe Ø 5 mm WL 448 mm graduated	5.0 mm	448 mm	**8384.66**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MYOMA DRILL 5 MM/10 MM



		Ø	WL	Product no.
	**Myoma drill Ø 5 mm WL 320 mm**	5 mm	320 mm	**8383.611**
	Myoma drill Ø 10 mm	10 mm	340 mm	**8385.301**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

INSUFFLATOR HIGHFLOW 45 BASIC



		Product no.
Insufflator 45 BASIC bndl consisting of: Insufflator 45 BASIC FR 45 l/min (2235001), Insufflation tube set L 2.5 m (8170.101), Hygiene filter, sterile, disposable (PACK= 10 PCS) (4171.111) and power cable 3 m long (2440.03)		**22350011**
Accessories: Tube sets for insufflation		
Insufflation tube set L 2.5 m, High Flow, D = 8 mm, autoclavable		**8170.232**
Insufflation tube set L 2.5 m, autoclavable		**8170.101**
Insufflation tube set L 2.7 m, with integrated hygiene filter, disposable, (PACK= 10 PCS) in individual sterile packaging		**4170.501**
Hygiene filter, sterile, disposable (PACK= 10 PCS) in individual sterile packaging		**4171.111**
Accessories for gas supply		
CO_2 connection tube 1.5 m NIST-NIST		**74021038**
with		
Pressure reducer for CO_2 connector DIN 477-1	DIN 477-1	**74007054**
Pressure reducer for CO_2 connector DIN EN ISO 407	DIN EN ISO 407	**74007055**
Pressure reducer for CO_2 connector ISO 5145	ISO 5145	**74007056**
or		
Connection tube for CO_2 5.0 m DIN for centralized CO_2 gas supply (Dräger)		**74021039**
Connection tube for CO_2 5.0 m NF for centralized CO_2 gas supply (Liquid Air)		**74021040**
Software modules (optional)		
Software module CAN bus CAN bus interface for integration in CORE		**2235101**
Software module BABY MODE BABY MODE for special use in pediatrics		**2235102**
Software module VIDEO DISPLAY: video display using DIALOG via CAN bus		**2235103**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

INSUFFLATOR HIGHFLOW 45 BASIC

Insufflator 45 BASIC	2235001
Device properties	
Operating mode	Continuous operation
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Storage and transport conditions	-20°C to +60°C, 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–240 V~, 50/60 Hz
Power consumption	60 VA
Current rating	0.6–0.2 A
Fuse	T 3.15 AH 250 V
Regulatory standards	
Protection class to IEC/EN 60601-1 (UL 60601-1/CSA C222 No6011 – for USA)	I
Electromagnetic compatibility (EMC)	IEC/EN 60601-1-2
Medical Devices Directive 93/42/EEC	Class IIb
Protection against electric shock	Type CF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights	
Weight	8.9 kg (19.5 lbs)
Dimensions (W x H x D)	300 mm x 160 mm x 455 mm

Relevant application parameters	
Insufflation medium	Medical-grade CO_2 (degree of purity > 99.5%)
Intraabdominal pressure	3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg
Gas flow rate primary filling	1 l/min (± 50%)
Gas flow rate, High Flow	2 l/min to 45 l/min (± 20%) selectable in increments of 1 l/min
Consumption indicator	0 l to 9,999 l (± 20%)

II123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

INSUFFLATOR HIGHFLOW 45 EVAC

WITH SMOKE GAS EVACUATION



		Product no.
Insufflator 45 EVAC bndl consisting of: Insufflator 45 EVAC FR 45 l/min (2235011), Insufflation tube set L 2.5 m (8170.101), Hygiene filter, sterile, disposable (PACK= 10 PCS) (4171.111), Insufflation tube set L 2.7 m with integrated hygiene filter, sterile, disposable (PACK= 10 PCS) (4170.501) Smoke gas evacuation tube set L 2.7 m, sterile, disposable (PACK= 10 PCS) (4170503) Footswitch with 1 pedal (20301031) and power cable, 3 m long (2440.03)		**22350111**
Accessories: Tube sets for insufflation		
Smoke gas evacuation tube set L 2.7 m, sterile, disposable (PACK= 10 PCS)		**4170503**
Accessories for gas supply		
CO_2 connection tube 1.5 m NIST-NIST		**74021038**
with		
Pressure reducer for CO_2 connector DIN 477-1	DIN 477-1	**74007054**
Pressure reducer for CO_2 connector DIN EN ISO 407	DIN EN ISO 407	**74007055**
Pressure reducer for CO_2 connector ISO 5145	ISO 5145	**74007056**
or		
Connection tube for CO_2 5.0 m DIN for centralized CO_2 gas supply (Dräger)		**74021039**
Connection tube for CO_2 5.0 m NF for centralized CO_2 gas supply (Liquid Air)		**74021040**
Software modules (optional)		
Software module CAN bus CAN bus interface for integration in CORE		**2235101**
Software module BABY MODE BABY MODE for special use in pediatrics		**2235102**
Software module VIDEO DISPLAY: video display using DIALOG via CAN bus		**2235103**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

INSUFFLATOR HIGHFLOW 45 EVAC

Insufflator 45 EVAC	2235011
Device properties	
Operating mode	Continuous operation
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Storage and transport conditions	-20°C to +60°C, 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–240 V~, 50/60 Hz
Power consumption	60 VA
Current rating	0.6–0.2 A
Fuse	T 3.15 AH 250 V
Regulatory standards	
Protection class to IEC/EN 60601-1 (UL 60601-1/CSA C222 No6011 – for USA)	I
Electromagnetic compatibility (EMC)	IEC/EN 60601-1-2
Medical Devices Directive 93/42/EEC	Class IIb
Protection against electric shock	Type CF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights	
Weight	8.9 kg (19.5 lbs)
Dimensions (W x H x D)	300 mm x 160 mm x 455 mm

Relevant application parameters	
Insufflation medium	Medical-grade CO_2 (degree of purity > 99.5%)
Intraabdominal pressure	3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg
Gas flow rate primary filling	1 l/min (± 50%)
Gas flow rate, High Flow	2 l/min to 45 l/min (± 20%) selectable in increments of 1 l/min
Consumption indicator	0 l to 9,999 l (± 20%)

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

INSUFFLATOR HIGHFLOW 45 HEAT

WITH GAS HEATING



		Product no.
Insufflator 45 HEAT bndl consisting of: Insufflator 45 HEAT FR 45 L/min(2235021), Insufflation tube for 2235021/031 L 3 m (8170202) Hygiene filter, sterile, disposable (PACK= 10 PCS) (4171.111) and power cable 3 m long (2440.03)		**22350211**
Accessories: Tube sets for insufflation		
Insufflation tube set L 3 m Highflow, with heating wire and integrated hygiene filter, sterile, disposable, (PACK= 10 PCS) in individual sterile packaging		**4170502**
Insufflation tube for 2235021/031 L 3 m Highflow, with heating wire, autoclavable, 3.0 m The reusable tube can be used up to 100 times		**8170202**
Hygiene filter, sterile, disposable (PACK= 10 PCS) in individual sterile packaging		**4171.111**
Accessories for gas supply		
CO_2 connection tube 1.5 m NIST-NIST		**74021038**
with		
Pressure reducer for CO_2 connector DIN 477-1	DIN 477-1	**74007054**
Pressure reducer for CO_2 connector DIN EN ISO 407	DIN EN ISO 407	**74007055**
Pressure reducer for CO_2 connector ISO 5145	ISO 5145	**74007056**
or		
Connection tube for CO_2 5.0 m DIN for centralized CO_2 gas supply (Dräger)		**74021039**
Connection tube for CO_2 5.0 m NF for centralized CO_2 gas supply (Liquid Air)		**74021040**
Software modules (optional)		
Software module CAN bus CAN bus interface for integration in CORE		**2235101**
Software module BABY MODE BABY MODE for special use in pediatrics		**2235102**
Software module VIDEO DISPLAY: video display using DIALOG via CAN bus		**2235103**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

INSUFFLATOR HIGHFLOW 45 HEAT

Insufflator 45 HEAT	2235021
Device properties	
Operating mode	Continuous operation
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Storage and transport conditions	-20°C to +60°C, 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–127/220–240 V~, 50/60 Hz
Power consumption	80 VA
Current rating	0.8–0.3 A
Fuse	T 3.15 AH 250 V
Regulatory standards	
Protection class to IEC/EN 60601-1 (UL 60601-1/CSA C222 No6011 – for USA)	I
Electromagnetic compatibility (EMC)	IEC/EN 60601-1-2
Medical Devices Directive 93/42/EEC	Class IIb
Protection against electric shock	Type CF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights	
Weight	11.0 kg (23.3 lbs)
Dimensions (W x H x D)	300 mm x 160 mm x 455 mm

Relevant application parameters	
Insufflation medium	Medical-grade CO_2 (degree of purity > 99.5%)
Intraabdominal pressure	3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg
Gas flow rate primary filling	1 l/min (± 50%)
Gas flow rate, High Flow	2 l/min to 45 l/min (± 20%) selectable in increments of 1 l/min
Consumption indicator	0 l to 9,999 l (± 20%)

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

INSUFFLATOR HIGHFLOW 45 EVAC + HEAT

WITH SMOKE GAS EVACUATION AND GAS HEATING



		Product no.
Insufflator 45 EVAC + HEAT bndl consisting of: Insufflator 45 EVAC + HEAT FR 45 l/min(2235031), Insufflation tube for 2235021/031 L 3 m (8170202), Insufflation tube set L 3 m, sterile, disposable, (PACK= 10 PCS) (4170502), Hygiene filter, sterile, disposable (PACK= 10 PCS) (4171.111), Smoke gas evacuation tube set L 2.7 m, sterile, disposable (PACK= 10 PCS) (4170503) Footswitch 1 pedal (20301031) and power cable 3 m long (2440.03)		**22350311**
Accessories: Tube sets for insufflation		
Insufflation tube set L 3 m Highflow, with heating wire and integrated hygiene filter, sterile, disposable, (PACK= 10 PCS) in individual sterile packaging		**4170502**
Insufflation tube for 2235021/031 L 3 m Highflow, with heating wire, autoclavable, 3.0 m The reusable tube can be used up to 100 times		**8170202**
Hygiene filter, sterile, disposable (PACK= 10 PCS) in individual sterile packaging		**4171.111**
Smoke gas evacuation tube set L 2.7 m, sterile, disposable (PACK= 10 PCS)		**4170503**
Accessories for gas supply		
CO_2 connection tube 1.5 m NIST-NIST		**74021038**
with		
Pressure reducer for CO_2 connector DIN 477-1	DIN 477-1	**74007054**
Pressure reducer for CO_2 connector DIN EN ISO 407	DIN EN ISO 407	**74007055**
Pressure reducer for CO_2 connector ISO 5145	ISO 5145	**74007056**
or		
Connection tube for CO_2 5.0 m DIN for centralized CO_2 gas supply (Dräger)		**74021039**
Connection tube for CO_2 5.0 m NF for centralized CO_2 gas supply (Liquid Air)		**74021040**
Software modules (optional)		
Software module CAN bus CAN bus interface for integration in CORE		**2235101**
Software module BABY MODE BABY MODE for special use in pediatrics		**2235102**
Software module VIDEO DISPLAY: video display using DIALOG via CAN bus		**2235103**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

INSUFFLATOR HIGHFLOW 45 EVAC + HEAT

Insufflator 45 EVAC + HEAT	2235031
Device properties	
Operating mode	Continuous operation
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Storage and transport conditions	-20°C to +60°C, 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–127/220–240 V~, 50/60 Hz
Power consumption	80 VA
Current rating	0.8–0.3 A
Fuse	T 3.15 AH 250 V
Regulatory standards	
Protection class to IEC/EN 60601-1 (UL 60601-1/CSA C222 No6011 – for USA)	I
Electromagnetic compatibility (EMC)	IEC/EN 60601-1-2
Medical Devices Directive 93/42/EEC	Class IIb
Protection against electric shock	Type CF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights	
Weight	11.0 kg (23.3 lbs)
Dimensions (W x H x D)	300 x 160 x 455 mm

Relevant application parameters	
Insufflation medium	Medical-grade CO_2 (degree of purity > 99.5%)
Intraabdominal pressure	3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg
Gas flow rate primary filling	1 l/min (± 50%)
Gas flow rate, High Flow	2 l/min to 45 l/min (± 20%) selectable in increments of 1 l/min
Consumption indicator	0 l to 9,999 l (± 20%)

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LAPARO-CO_2-PNEU 2233



		Product no.
LAPARO-CO_2-PNEU bndl consisting of: LAPARO-CO2-PNEU 2233 FR 20 L/MIN (2233.001) Insufflation tube set L 2.5 m (8170.101), Hygiene filter, sterile, disposable (PACK= 10 PCS) (4171.111), and power cable 3 m long (2440.03)		**22330011**
Accessories: Tube sets for insufflation		
Insufflation tube set, L 2.7 m with integrated hygiene filter, sterile, disposable, (PACK= 10 PCS) in individual sterile packaging		**4170.501**
Accessories for gas supply		
CO_2 connection tube 1.5 m NIST-NIST		**74021038**
with		
Pressure reducer for CO_2 connector DIN 477-1	DIN 477-1	**74007054**
Pressure reducer for CO_2 connector DIN EN ISO 407	DIN EN ISO 407	**74007055**
Pressure reducer for CO_2 connector ISO 5145	ISO 5145	**74007056**
or		
Connection tube for CO_2 5.0 m DIN for centralized CO_2 gas supply (Dräger)		**74021039**
Connection tube for CO_2 5.0 m NF for centralized CO_2 gas supply (Liquid Air)		**74021040**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

LAPARO-CO_2-PNEU 2233

LAPARO-CO_2-PNEU 2233	2233.001
Device properties	
Operating mode	Continuous operation
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Storage and transport conditions	-20°C to +60°C, 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–230 V~, 50/60 Hz
Power consumption	80 VA
Current rating	0.8 A
Fuse	T 2 AL 250 V
Regulatory standards	
Protection class to IEC/EN 60601-1 (UL 60601-1/CSA C222 No6011 – for USA)	I
Electromagnetic compatibility (EMC)	EN/IEC 60601--1--2
Medical Devices Directive 93/42/EEC	Class IIb
Protection against electric shock	Type CF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Maximum suction vacuum	-60 kPa
Dimensions and weights	
Weight	9.5 kg
Dimensions (W x H x D)	330 mm x 155 mm x 390 mm

Relevant application parameters	
Insufflation medium	Medical-grade CO_2 (degree of purity > 99.5%)
Intraabdominal pressure	3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg
Gas flow rate primary filling	1 l/min (± 50%)
Gas flow rate, High Flow	2 l/min to 20 l/min (± 20%) selectable in increments of 1 l/min
Consumption indicator	0 l to 9,999 l (± 20%)

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

STERILE SMOKE GAS EVACUATION FILTER

FOR SMOKE GAS DISCHARGE





	Product no.
Smoke gas evacuation filter (PACK= 10 PCS) in individual sterile packaging	**4170504**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

SUCTION IRRIGATION PUMP

core





	Product no.
FLUID CONTROL 2225 **Irrigation pump for Hys/Uro/Lap bndl** consisting of: Irrigation pump for Hys/Uro/Lap (2225001) and power cable 3 m long (2440.03)	**22250011**
for this:	
Balancing module for hysteroscopy and endourology, fluid management for fluid balancing in combination with FLUID CONTROL 2225, mobile stand with integrated weighing cells and space for up to 4 irrigation fluid bags	**2225023**

Accessories		Product no.
Footswitch	only for use in urology and within the indication TUR/enucleation, possibility of short-term increase in pressure if visibility is poor (Flush function)	**2204901**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

SUCTION IRRIGATION TUBE SETS

Irrigation			Product no.
Accessories – reusable	**Tube set with piercing spike**	with Luer-Lock connection, autoclavable, incl. 10 spare membranes, reusable for 20 reprocessing cycles	**8171223**
Accessories – disposable	**Irrigation tube set with piercing spike, L 3 m**	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product	**4171223**
	Tube set with CARE-LOCK, L 3 m	(PACK= 10 PCS), sterile, disposable product	**4171224**
	Suction irrigation tube set	(PACK= 10 PCS), with piercing spike, sterile disposable product, PVC	**4171225**
	Day irrigation tube set	(PACK= 10 PCS), sterile, disposable product, PVC	**4171226**
	Patient irrigation tube set, sterile	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product, PVC	**4171227**
	Note: Day tube and patient tube can only be used together. A new patient tube is required for each patient; the day tube can be used for up to 20 patients		

Suction			Product no.
Accessories – reusable	**Tube set for vacuum, incl. filter**	with integrated hygiene filter, PACK= 10 PCS, service life: 30 days (connected to irrigation pump)	**2206207**
	Irrigation tube	L 1.2 m, with Luer-Lock, for suction irrigation handle 8385.901 and tube set 8171223 or 8170.223	**817123**
	Suction tube L 3 m	for suction irrigation handle 8385.901	**8171402**
	Secretion container, 2 l	2 liters, with lid	**8170.655**
	Secretion container, 2 l	2 liters, no lid	**8170.6551**
Accessories – disposable	**Secretion container, 2.5 l**	2.5 liters (PACK= 2 PCS)	**41706566**
	Secretion container bndl consisting of:	Secretion container 2.5 l (41706566) and secretion bag (PACK= 90 PCS) (41706564)	**4170657**
	Tube set for suction (2 connections)	sterile, disposable product, (PACK= 10 PCS) for connecting instruments to collecting container	**T0503-01**
	Angled 90° plug-in coupling	(PACK= 10 PCS) For connecting vacuum tube 2206207 to disposable container systems	**0771019**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

CABLE ACCESSORIES

		Product no.
Patch cable, RJ45 SFTP, 0.5 m	Cable length 0.5 m	**72325378**
Patch cable, RJ45 HRS TM11, 1.0 m	Cable length 1.0 m	**72325429**
Patch cable, RJ45 S/FTP CAT6 10 m	Cable length 10 m	**72325434**
Plastic caps for network socket	(PACK= 8 PCS)	**5592105**
Power cable	Cable length 3 m	**2440.03**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

FLUID CONTROL 2225

FLUID CONTROL 2225		2225001
Device properties		
Operating conditions		+10°C to +40°C, 30% to 75% rel. humidity, 70 to 106 kPa atmospheric pressure 3,000 m max. altitude above sea level
Storage and transport conditions		-20°C to +60°C , 10% to 90% rel. humidity 70 to 106 kPa atmospheric pressure
Power supply		
Mains + frequency		100–240 V~, 50/60 Hz
Power consumption	100 V/60 Hz	110 VA
	240 V/50 Hz	120 VA
Current rating	100 V/60 Hz	1.10 A
	240 V/50 Hz	0.50 A
Fuse		T 3.15 AH, 250 V
Regulatory standards		
Protection class (I, II)		I
Electromagnetic compatibility (EMC)		EN 60601-1/IEC 60601-1 EN 60601-1-2/IEC 60601-1-2
Medical Devices Directive 93/42/EEC		Class IIb
Housing protection rating (IP code)		IP21
Protection against electric shock		Type BF applied part
Degree of protection in the presence of flammable mixtures		Device is not protected against explosions (do not operate this device in explosive atmospheres)
Maximum suction vacuum		-60 kPa
Dimensions and weights		
Weight		8.8 kg
Dimensions (W x H x D)		300 mm x 157 mm x 436 mm

Relevant application parameters	
Nominal flow range	Hysteroscopy: 800 ml/min (max. flow, not adjustable) Endourology: 10–800 ml/min (max. flow) Laparoscopy: 0.1–1.8 l/min (max. flow)
Suction power	max. 2 l/min
Starting nominal pressure range	Hysteroscopy: 15–200 mmHg Endourology: 15–90 mmHg/20–120 cmH2O Laparoscopy: 300 mmHg (not adjustable)
Pressure	0–300 mmHg
Deficit	-9,990 to +9,990 ml/0 to 99.9 l

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TECHNICAL DATA

FLUID CONTROL 2225

Balancing module	2225023
Device properties	
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, 70 to 106 kPa atmospheric pressure 3,000 m max. altitude above sea level
Storage and transport conditions	-20°C to +60°C , 10% to 90% rel. humidity 70 to 106 kPa atmospheric pressure
Regulatory standards	
Electromagnetic compatibility (EMC)	EN 60601-1/IEC 60601-1 EN 60601-1-2/IEC 60601-1-2
Housing protection rating (IP code)	IP21
Maximum load of container scale	16 kg/4 containers of 3 l each
Maximum load of bag scale	23 kg/4 bags of 5 l each
Dimensions and weights	
Weight	15.4 kg
Dimensions (W x H x D)	618 mm x 1,064 mm x 618 mm

Footswitch	2204901
Power supply	
Power supply connection	max. 24 V
Power consumption	max. 0.1 A
Regulatory standards	
Electromagnetic compatibility (EMC)	EN 60601-1/IEC 60601-1
Housing protection rating (IP code)	IPX8
Plug	7-pin circular connector
Cable length	4.5 m
Dimensions and weights	
Weight	300 g
Dimensions (W x H x D)	66 mm x 27 mm x 91 mm

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL LAP 2216



	Product no.
FLUID CONTROL **LAP suction irrigation pump bndl** consisting of: LAP suction irrigation pump (2216001) and power cable 3 m long (2440.03)	**22160011**

Accessories		Product no.
Bracket	for fixing the suction container on the irrigator stand or MUT cart	**2215.992**
Universal holder	for FLUID CONTROL LAP on RIWOmobil	**32114605**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

LAP SUCTION IRRIGATION PUMP 2216

SUCTION IRRIGATION TUBE SETS

Irrigation			Product no.
Accessories – reusable	**Tube set with piercing spike**	with Luer-Lock connection, autoclavable, incl. 10 spare membranes, reusable for 20 reprocessing cycles	**8171223**
Accessories – disposable	**Irrigation tube set with piercing spike, L 3 m**	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product	**4171223**
	Tube set with CARE-LOCK, L 3 m	(PACK= 10 PCS), sterile, disposable product	**4171224**
	Suction irrigation tube set	(PACK= 10 PCS), with piercing spike, sterile disposable product, PVC	**4171225**
	Day irrigation tube set	(PACK= 10 PCS), sterile, disposable product, PVC	**4171226**
	Patient irrigation tube set, sterile	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product, PVC	**4171227**
	Note: Day tube and patient tube can only be used together. A new patient tube is required for each patient; the day tube can be used for up to 20 patients		

Suction			Product no.
Accessories – reusable	**Tube set for vacuum, incl. filter**	with integrated hygiene filter, PACK= 10 PCS, service life: 30 days (connected to irrigation pump)	**2206207**
	Irrigation tube	L 1.2 m, with Luer-Lock, for suction irrigation handle 8385.901 and tube set 8171223 or 8170.223	**817123**
	Suction tube L 3 m	for suction irrigation handle 8385.901	**8171402**
	Secretion container, 2 l	2 liters, with lid	**8170.655**
	Secretion container, 2 l	2 liters, no lid	**8170.6551**
Accessories – disposable	**Secretion container, 2.5 l**	2.5 liters (PACK= 2 PCS)	**41706566**
	Secretion container bndl consisting of:	Secretion container 2.5 l (41706566) and secretion bag (PACK= 90 PCS) (41706564)	**4170657**
	Tube set for suction (2 connections)	sterile, disposable product, (PACK= 10 PCS) for connecting instruments to collecting container	**T0503-01**
	Angled 90° plug-in coupling	(PACK= 10 PCS) For connecting vacuum tube 2206207 to disposable container systems	**0771019**

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

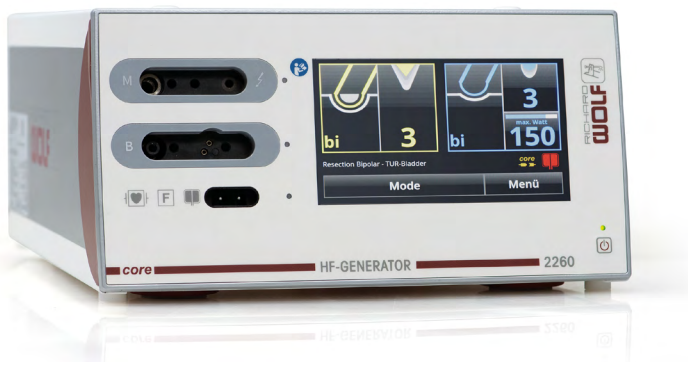
FLUID CONTROL LAP 2216

LAP suction irrigation pump		2216001
Device properties		
Operating conditions		+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa 3,000 m max. altitude above sea level
Storage conditions		+5°C to +40°C, 5% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Transport and shipping conditions		-20°C to +60°C, 5% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply		
Mains + frequency		100–240 V~, 50/60 Hz
Power consumption	100 V/60 Hz	65 VA
	240 V/50 Hz	96 VA
Current rating	100 V/60 Hz	0.65 A
	240 V/50 Hz	0.42 A
Protection class		I
Electromagnetic compatibility (EMC)		IEC 60601-1/EN 60601-1 IEC 60601-1-2/EN 60601-1-2
Medical Devices Directive 93/42/EEC		Class IIa
Protection against electric shock		Type BF applied part
Degree of protection against the ingress of liquids		IP 41
Degree of protection in the presence of flammable mixtures		Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights		
Weight		4 kg
Dimensions (W x H x D) with toggle screw		140 mm x 210 mm x 295 mm

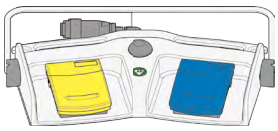
Relevant application parameters	
Maximum delivery rate	Rinsing: 2.0 l/min (± 10%), suction: 2.0 l/min (+0.4/-0.1 l/min)
Maximum pump pressure	400 mmHg (± 50 mmHg)
Motor cut-out	500 mmHg after 5 s (± 25 mmHg)
Suction pressure	between -50 kPa and -60 kPa
Connections	Equipotential bonding, vacuum connection

1123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF GENERATOR 2260



		Product no.
HF surgical generator 400 kHz	for the connection of monopolar and bipolar accessories, international version (BOWA, KLS Martin, Olympus, Karl Storz, Valleylab)	**2260001**
HF surgical generator 400 kHz	for the connection of monopolar and bipolar accessories, E version (Erbe)	**2260002**

Accessories required	Cable length	Product no.
Footswitch, 2 pedals L 5 m with fixed connection cable, reusable 		**2260021**
Neutral electrode for use with high-frequency surgical device, Foil bag with 5 neutral electrodes, (PACK= 50 PCS)		**1280H**
Mono HF neutral electrode cable, L 4.5 m	4.5 m	**2260031**
Power cable	3.0 m	**2440.03**
Bipo HF connection cable L 3 m	3.0 m	**8108233**
Bipo HF connection cable L 5 m	5.0 m	**8108253**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

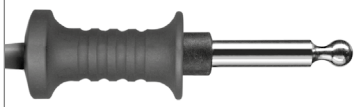
HF GENERATOR 2260

TECHNICAL DATA

HF surgical generator 400kHz		2260001/2260002
Device properties		
Type of controls on housing front		Touch panel
Output power	max.cutting power	400 W
	max.coagulation power	350 W
LF and HF leakage currents		acc. to DIN EN 60601-1 and DIN EN 60601-2-2
Signal level		HF indicator 55 dB(A); adjustable 45–60 dB(A) Alarm 65 dB(A)
Operating conditions		+10°C to +40°C, 30% to 75% rel humidity, 700 hPa to 1,060 hPa atmospheric pressure
Storage and transport conditions		- 20°C to + 60°C, 10% to 90% rel humidity, 700 hPa to 1,060 hPa atmospheric pressure
Power supply		
Mains + frequency		100–240 V~, 50/60 Hz
Power consumption	without HF output	45 VA
	at max. output power	650 VA
Current rating		max. 6.3 A
Fuse		T 6.3 AH 250 V
Regulatory standards		
Protection class to EN/IEC 60601-1 (UL 2601-1/CSA C222 No6011 – for USA)		I
Electromagnetic compatibility (EMC)		EN/IEC 60601-1-2
Medical Devices Directive 93/42/EEC		Class IIb
Degree of protection against the ingress of liquids (DIN EN/IEC 60529)		IPX0
Degree of protection against the ingress of solids		IP2X
Duty factor (duty cycle DC)		Intermittent INT 10 s/30 s corresponding to 25% DC
Protection against electric shock		Model CF applied part, defibrillator-proof
Degree of protection in the presence of flammable mixtures		Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights		
Weight		10.2 kg (22.4 lbs)
Dimensions (W x H x D)		300 x 159 x 419 mm

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE MONO
815xxx

Instrument connector	Device connector		Product no.
WOLF Resectoscopes 	 ERBE (ACC/ICC/VIO)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260002	**HF connection cable mono L 3 m**	**815.032**
		HF connection cable mono L 5 m	**815.052**
	 ERBE (T series)	**HF connection cable mono L 3 m**	**815.132**
		HF connection cable mono L 5 m	**815.152**
HF electrodes, monopolar 	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable mono L 3 m**	**815.031**
		HF connection cable mono L 5 m	**815.051**
	 Bovie/Valleylab/Erbe (Int.)/ BOWA (Int.) R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**815.033**
		HF connection cable mono L 5 m	**815.053**
	 BOWA (Int./EU) Eschmann and other devices with 4 mm plugs R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**815.034**
		HF connection cable mono L 5 m	**815.054**

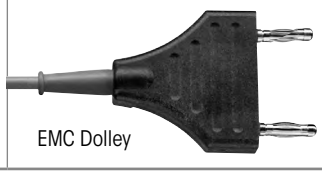
II123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE MONO
8106xxx

Instrument connector	Device connector		Product no.
WOLF Instruments/surgical generator 	 Erbe (ACC/ICC/VIO)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260002	**HF connection cable mono L 3 m**	**8106.032**
		HF connection cable mono L 5 m	**8106.052**
	 Erbe (T series)	**HF connection cable mono L 3 m**	**8106.132**
		HF connection cable mono L 5 m	**8106.152**
HF electrodes, monopolar 	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable mono L 3 m**	**8106.031**
		HF connection cable mono L 5 m	**8106.051**
	 Bovie/Valleylab/Erbe (Int.)/ BOWA (Int.) R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**8106.033**
		HF connection cable mono L 5 m	**8106.053**
	 BOWA (Int./EU) Eschmann and other devices with 4 mm plugs R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable mono L 3 m**	**8106.034**
		HF connection cable mono L 5 m	**8106.054**

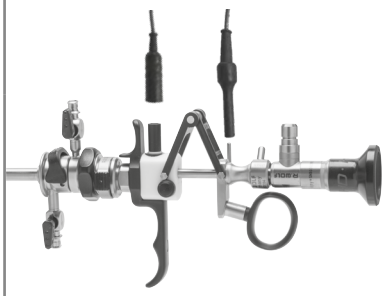
I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

BIPO HF CONNECTION CABLE
8108xxx

Instrument connector	Device connector		Product no.
WOLF **Bipolar forceps** 	 ERBE (ACC/ICC/T)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.032**
		HF connection cable **bipo; L 5 m**	**8108.052**
	 International / 2-pin Valleylab R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.033**
		HF connection cable **bipo; L 5 m**	**8108.053**
	 WOLF/Martin (M-version)/ Berchtold/Aesculap	**HF connection cable** **bipo; L 3 m**	**8108.031**
		HF connection cable **bipo; L 5 m**	**8108.051**
	 EMC Dolley	**HF connection cable** **bipo; L 3 m**	**8108035**
Bipolar tweezers connection 	 ERBE (ACC/ICC/T)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.132**
		HF connection cable **bipo; L 5 m**	**8108.152**
	 International / 2-pin Valleylab R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.133**
		HF connection cable **bipo; L 5 m**	**8108.153**
	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable** **bipo; L 3 m**	**8108.131**
		HF connection cable **bipo; L 5 m**	**8108.151**
	 EMC Dolley	**HF connection cable** **bipo; L 3 m**	**8108135**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE BIPO
FOR RESECTION IN SALINE SOLUTION

Instrument connector	Device connector		Product no.
WOLF S(α)line resectoscopes 	 Erbe VIO 300D	**Bipolar cable; TUR/TCR; WOLF** MF plug; L 4 m	**20196-119**
	 Erbe VIO 3	**BIPOLAR CABLE; MF-U** MF plug; L 4.5 m	**21196-119**
	 KLS Martin	**HF connection cable bipo; L 3 m**	**8108.231**
		HF connection cable bipo; L 5 m	**8108.251**
	 R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable bipo; L 3 m**	**8108233**
		HF connection cable bipo; L 5 m	**8108253**

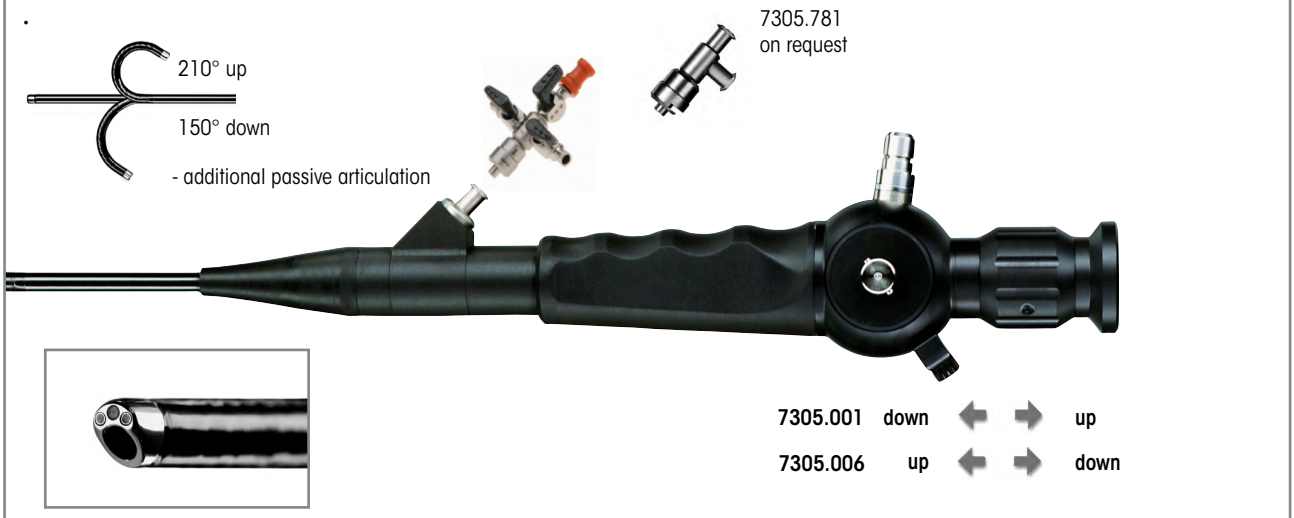
I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MONO HF NEUTRAL ELECTRODE CABLE

Instrument connector	Device connector		Product no.
2-pole neutral electrode 	 R. Wolf HF surgical generator 400 kHz 2260001/2260002	**Mono HF neutral electrode cable, L 4.5 m**	**2260031**

III23 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLEXIBLE FIBER CHOLEDOCHOSCOPE 5 MM CHANNEL 2.5 MM



	Outer Ø	Working channel	WL	Control lever in distal direction – articulation downward	Control lever in distal direction – articulation upward	Product no.
Fiber cystoscope 15 FR WL 400 mm Slanted distal tip Articulation +210°/-150° Direction of view 0°, viewing angle 110°	5 mm 15 Fr	25 mm 75 Fr	400 mm	•		**7305.001**
					•	**7305.006**
Fiber cystoscope bndl consisting of: Fiber cystoscope 15 FR WL 400 mm (7305.001) Adapter with 2 irrigation valves and 1 instrument port (7305.782) Leakage tester for flex. endoscopes (163.903) Pressure equalization valve (163.904) Cleaning brush Ø 3 mm, TL 1,200 mm (PACK= 10 PCS) (7990002)				•		**730500111**
Fiber cystoscope bndl consisting of: Fiber cystoscope 15 FR WL 400 mm (7305.006) Adapter with 2 irrigation valves and 1 instrument port (7305.782) Leakage tester for flex. endoscopes (163.903) Pressure equalization valve (163.904) Cleaning brush Ø 3 mm, TL 1,200 mm (PACK= 10 PCS) (7990002)					•	**730500611**

Recommended accessories		Product no.
Fiber light cable bndl consisting of: Fiber light cable Ø 2.5 mm TL 2.3 m (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

I123 || Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

mamba VISION

FLEXIBLE SENSOR ENDOSCOPE FOR USE IN CHOLEDOCHOSCOPY

FOR ENDOCAM Logic 4K CONTROLLER

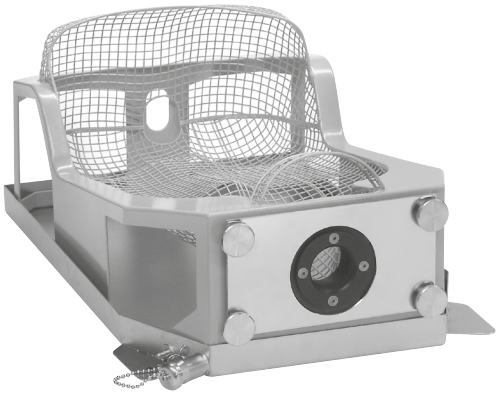


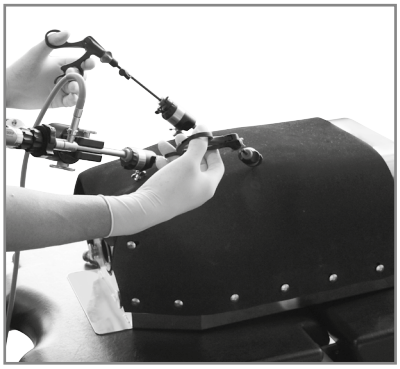
	Outer Ø	Working channel	WL	Control lever in distal direction – articulation downward	Control lever in distal direction – articulation upward	Product no.
Sensor cystoscope 16.2 Fr WL 400 mm Slanted distal tip Articulation +210°/-210° Direction of view 0°, viewing angle 120°	16.2 Fr	2.5 mm 7.5 Fr	400 mm	•		**7315001**
					•	**7315006**
Sensor cystoscope bndl consisting of: Sensor cystoscope 16.2 FR, WL 400 mm (7315001) Leakage tester for flex. endoscopes (163.903), pressure equalization valve (163.904), Luer sealing cap (15023205), and cleaning brush Ø 5 mm, TL 1,200 mm (PACK= 10 PCS) (7990005)				•		**73150012**
Sensor cystoscope bndl consisting of: Sensor cystoscope 16.2 FR, WL 400 mm (7315006) Leakage tester for flex. endoscopes (163.903), pressure equalization valve (163.904), Luer sealing cap (15023205), and cleaning brush Ø 5 mm, TL 1200 mm (PACK= 10 PCS) (7990005)					•	**73150062**

Recommended accessories		Product no.
Fiber light cable bndl consisting of: Fiber light cable Ø 2.5 mm TL 2.3 m (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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TÜBINGER MIC TRAINING DEVICE





		Product no.
Tübinger MIC trainer with 3 abdominal walls (foam rubber)	(W x H x D) 560 x 350 x 230 mm	**9500.056**

Recommended accessories	Product no.
Abdominal wall, foam rubber, PACK= 5 PCS	**9500.0561**
Available on request with transportation case 	

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HYSTERECTOMY

HYSTERECTOMY

SecuFIX UTERUS MANIPULATOR

SecuFix UTERUS MANIPULATOR

SYSTEM WITH COLPOTRANSILLUMINATION AND VACUUM FIXATION





		Product no.
SecuFix **Uterus manipulator Ø 36 mm**		**8370701**
SecuFix **Uterus probe Ø 5 mm**	with longitudinal scale	**8370702**
Cleaning brush Ø 5 mm, TL 515 mm		**605**
Cleaning brush Ø 9 mm, TL 405 mm		**609**
Sealing cap capacity 3.4–5.1 mm	(PACK = 10 PCS)	**8902**
Colpotransilluminator vacuum tube SecuFix	Set contains: Colpotransilluminator and vacuum tube (with check valve, suction connection, Y connection part for use with a suction instrument on the same suction device, suction clamp), disposable (PACK= 10 PCS, in individual sterile packaging)	**41708370**

Accessories		Product no.
Irrigation tube L 0.6 m 		**163915**
Fiber light cable bndl 	Fiber bundle, Ø 3.5 mm (color marking orange), length 2.3 m	**806635231**
RIWO System Tray 	**Container (W x H x D) 500 x 60 x 200 mm** with instrument mat Internal dimensions (W x H x D): 500 x 57 x 200 mm, External dimensions (W x H x D): 566 x 77 x 266 mm	**33024**

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DIAGNOSTIC AND SURGICAL HYSTEROSCOPY

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DIAGNOSTIC AND SURGICAL HYSTEROSCOPY

1 BASIC SETS

2 TELESCOPES

3 HYSTEROSCOPE SHEATHS FOR 2.5 MM/4.0 MM TELESCOPES

4 HYSTEROSCOPE Ø 3.9 MM, 30°/HYSTEROSCOPE Ø 5 MM, 20°

5 FORCEPS/SCISSORS/SMALL MODULAR SYSTEM HySafe

6 ELECTRODES, BIPOLAR, MONOPOLAR

7 INSTRUMENTS FOR PORTIO AND UTERUS

8 HYSTEROSCOPIC RESECTION

9 FLEXIBLE HYSTEROSCOPE

10 DEVICES/ACCESSORIES

BASIC SET

FOR DIAGNOSTIC HYSTEROSCOPY

Product	Product no.	Quantity	Catalog/Section
without working channel			
Telescope 30° Ø 2.7 mm SL 310 mm	**8974.402**	1	Gynecology / hysteroscopy
Sheath for hysteroscope 10.5 FR	**8985.11**	1	
Biopsy forceps bndl	**8642.6312**	1	
Grasping forceps bndl	**8642.6502**	1	
alternative:			
Hysteroscope bndl	**89864021**	1	Gynecology / hysteroscopy

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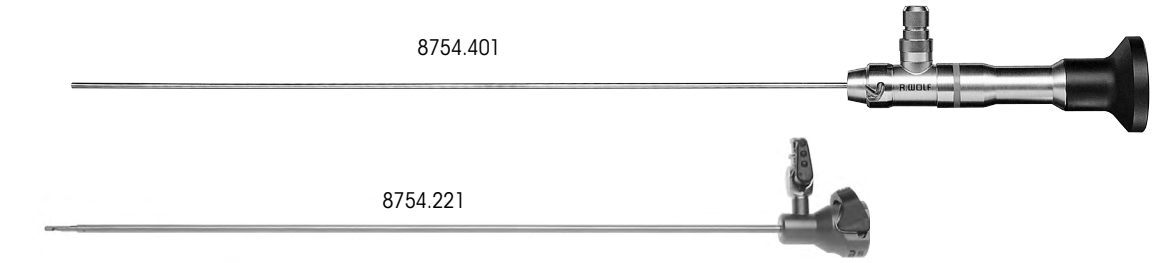
BASIC SET HYSTERO-RESECTOSCOPE

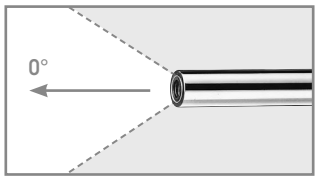
PRINCESS **E**-LINE & **S**(A)LINE **S**YSTEM,
TELESCOPE 2.7 MM, 12°, 21 FR, PASSIVE, CONTINUOUS IRRIGATION

Product	Product no.	Quantity	Catalog/Section
Outer sheath for resectoscope 21 FR	**8653.021**	1	Gynecology / hysteroscopy
Inner sheath for resectoscope 19 FR	**8653.018**	1	
Obturator for resectoscope 19 FR	**8653.18**	1	
Passive, mono/bipo working element with open handle, passive cutting	**8653.224**	1	
Telescope 12° Ø 2.7 mm SL 310 mm	**8974.412**	1	
Cutting electrode bipo 21 FR	**46531313**	1	
Roller electrode bipo 21/24.5 FR	**4653.023**	1	
Hook electrode mono/bipo 21/24.5 FR	**865303**	1	
Protective sterilization sleeve for connection to max. 5 electrodes, reusable	**8428.901**	1	
Bipolar HF cable	**8108....**	1	
FLUID CONTROL 2225 **Irrigation pump for HYS/URO/LAP bndl**	**22250011**	1	
Balancing module	**2225023**	1	

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MINI FIBER TELESCOPE 2.0 MM





AUTOCLAVE
134° C / 273° F

	Direction of view	WL	TL	Ø	Product no.
Telescope 0° Ø 2 mm NL 268 mm	0°	268 mm	365 mm	2.0 mm	**8754401**
also:					
VERES cannula Ø 2.3 mm WL 250 mm consisting of: 1x VERES cannula Ø 2.3 mm WL 274 mm (8754.211) 1x outer sheath Ø 2.8 mm, WL 250 mm (8754.221)		250 mm		2.3 mm	**8754201**

Recommended accessories		Product no.
Perforated basket for standard telescope 2 (for telescope 8754.401)	(L x W x H) 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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MINI SURGICAL HYSTEROSCOPE



	Direction of view	W x H	WL	TL	Product no.
Telescope 12° W 3.6 mm H 2 mm WL 227 mm with lateral eyepiece	12°	3.6 x 2.0 mm	227 mm	358 mm	**8753.411**

also:

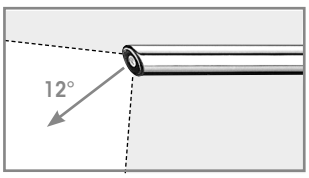
	Color coding	WL	Outer Ø	Working channel	Product no.
Outer sheath for hysteroscope 15 FR	yellow	214 mm	3.8 mm	3 Fr	**8753.001**
Inner sheath for hysteroscope		-	1.5 mm		**8753.002**
Outer sheath for hysteroscope 15 FR	blue	214 mm	4.8 mm	5 Fr	**8753.003**
Inner sheath for hysteroscope		-	2.2 mm x 3.42 mm		**8753.004**
Outer sheath for hysteroscope 15.5 FR	green	214 mm	5.4 mm	7 Fr	**8753.006**
Inner sheath for hysteroscope		-	2.8 mm x 2.98 mm		**8753.007**
Outer sheath for hysteroscope 17.5 FR	white	214 mm	5.8 mm	9 Fr	**8753.008**
Inner sheath for hysteroscope		-	3.5 mm x 4.04 mm		**8753.009**

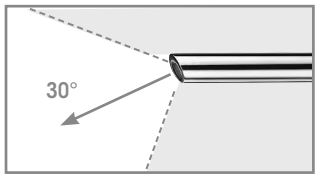
Recommended accessories		Product no.
Rigid grasping forceps Ø 3 mm WL 346 mm 		**8993.235**
Perforated basket for hysteroscope 1 for holding replacement sheaths, with small parts basket	Internal dimens. (W x H x D): 51 x 65 x 124 mm External dimens. (W x H x D): 467 x 75 x 132 mm	**38006**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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HYSTEROSCOPE TELESCOPES
Ø 2.7 MM/Ø 4.0 MM



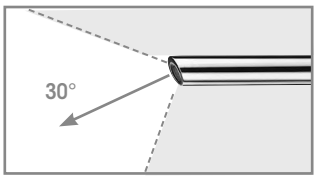




AUTOCLAVE
134° C / 273° F

	Direction of view	Ø	SL	TL	Product no.
Telesope 12° Ø 2.7 mm SL 310 mm	12°	2.7 mm	310 mm	373 mm	**8974.412**
Telesope 30° Ø 2.7 mm SL 310 mm	30°	2.7 mm	310 mm	370 mm	**8974.402**





AUTOCLAVE
134° C / 273° F

	Direction of view	Ø	SL	TL	Product no.
Telesope 30° Ø 4 mm SL 299 mm	30°	4.0 mm	299 mm	372 mm	**8989.412**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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DIAGNOSTIC HYSTEROSCOPE SHEATH 10.5 FR /Ø 3.5 MM

FOR TELESCOPE 2.7 MM, 30°



	Sheath	WL	Product no.
 **Sheath for hysteroscope 10.5 FR** round	10.5 Fr/ Ø 3.5 mm	255 mm	**8985.11**
 **Handle for hysteroscope**			**8986.251**

also:

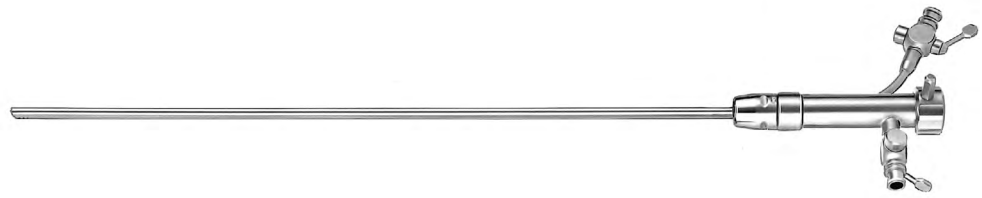
	Direction of view	Ø	SL	TL	Product no.
Telescope 30° Ø 2.7 mm SL 310 mm	30°	2.7 mm	310 mm	370 mm	**8974.402**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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DIAGNOSTIC HYSTEROSCOPE SHEATH 12 FR, OVAL

FOR TELESCOPE 2.7 MM, 30°



	Sheath	Working channel	WL	Product no.
 **Sheath for hysteroscope 12 FR** oval	12 Fr	3 Fr	246 mm	**8974.121**
 **Handle for hysteroscope**				**8986.251**

also:

	Direction of view	Ø	SL	TL	Product no.
Telescope 30° Ø 2.7 mm SL 310 mm	30°	2.7 mm	310 mm	370 mm	**8974.402**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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OptiFLOW™
HIGHFLOW CONTINUOUS IRRIGATION SURGICAL SHEATH 5.5 MM

FOR TELESCOPE 2.7 MM, 12° AND 30°



	Sheath	Working channel	WL	Product no.
 **Sheath for hysteroscope 16.5 FR** distal sheath end, oval	12 Fr	5 Fr	219 mm	**8974351**
Handle for hysteroscope				**8986.251**

also:

	Direction of view	Ø	SL	TL	Product no.
Telescope 12° Ø 2.7 mm SL 310 mm	12°	2.7 mm	310 mm	373 mm	**8974.412**
Telescope 30° Ø 2.7 mm SL 310 mm	30°	2.7 mm	310 mm	370 mm	**8974.402**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

DIAGNOSTIC HYSTEROSCOPE SHEATH 15 FR

FOR TELESCOPE 4 MM, 30°



	Sheath	Working channel	WL	Product no.
 **Sheath for hysteroscope 15 FR** distal sheath end, oval	12 Fr	3 Fr	255 mm	**8989.151**
 **Handle for hysteroscope**				**8986.251**

also:

	Direction of view	Ø	SL	TL	Product no.
Telescope 30° Ø 4 mm SL 299 mm	30°	4.0 mm	299 mm	372 mm	**8989.412**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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RICHARD WOLF
spirit of excellence

SURGICAL CONTINUOUS IRRIGATION HYSTEROSCOPE SHEATH 15 FR OVAL

FOR TELESCOPE 4 MM, 30°



	Sheath	Working channel	WL	Product no.
 **Sheath for hysteroscope 15 FR** distal sheath end, oval	15 Fr	3 Fr	230 mm	**8989.031**
 **Handle for hysteroscope**				**8986.251**

also:

	Direction of view	Ø	SL	TL	Product no.
Telescope 30° Ø 4 mm SL 299 mm	30°	4.0 mm	299 mm	372 mm	**8989.412**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

SURGICAL CONTINUOUS IRRIGATION HYSTEROSCOPE SHEATH 21 FR

FOR TELESCOPE 4 MM, 30°

byGallinat

8988.031



8988.231



8988.241



		Sheath	Working channel	WL	Product no.
 **Outer sheath for hysteroscope 21 FR** oval	with oblique distal end, rotatable drain stopcock, and quick release lock	21 Fr	-	204 mm	**8988.031**
also:  **Obturator for hysteroscope OD 5 mm**	specifically for 8988.031				**8988.131**
 **Working insert for hysteroscope 21 FR**	with deflection lever and supply stopcock		7 Fr		**8988.231**
 **Working insert for hysteroscope 21 FR**	with ramp and supply stopcock		7 Fr		**8988.241**

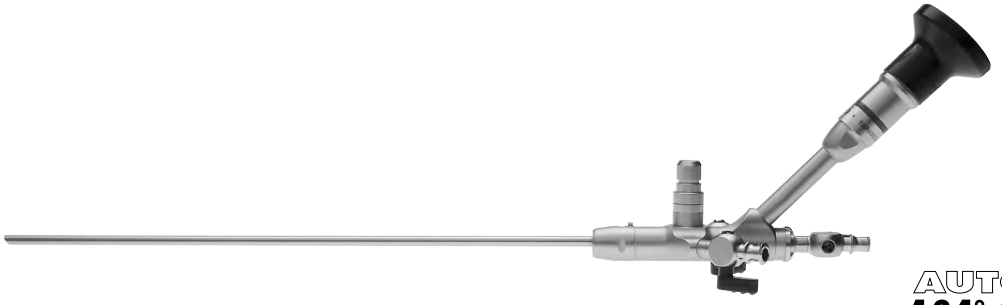
also:

	Direction of view	Ø	SL	TL	Product no.
Telescope 30° Ø 4 mm SL 299 mm	30°	4.0 mm	299 mm	372 mm	**8989.412**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Dimensions (L x W x H): 481 x 59 x 54 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HYSTEROSCOPE
3.9 MM, 30°



	Sheath	Working channel	WL	Product no.
 **Hysteroscope bndl** consisting of: Hysteroscope 30° Ø 3.9 mm WL 217 mm (8986402) and rubber cap capacity 0.8 mm (PACK = 10 PCS, 88.01)	Ø 3.9 mm	5 Fr	217 mm	**89864021**
Handle for hysteroscope				**8986.251**

Recommended accessories		Product no.
Perforated basket for hysteroscope 2 with small part basket	Internal dimensions (W x H x D): 451 x 80 x 124 mm, External dimensions (W x H x D):467 x 90 x 132 mm	**38009**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HYSTEROSCOPE
5 MM, 20°

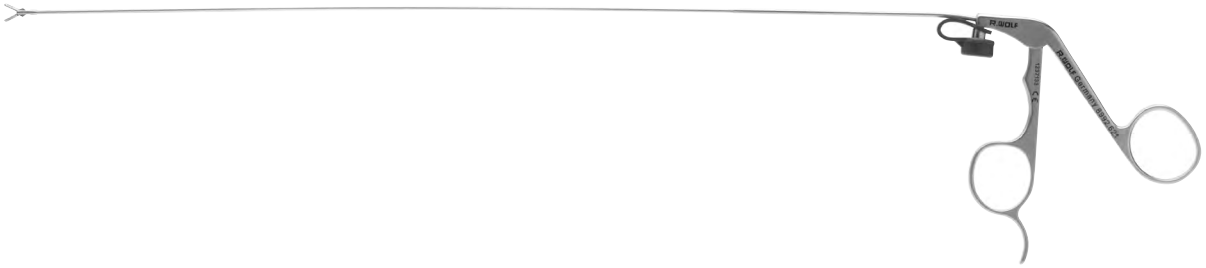


	Sheath	Working channel	WL	Product no.
 **Hysteroscope 20° Ø 5 mm WL 217 mm** with lateral eyepiece	Ø 5 mm	5 Fr	217 mm	**8986.401**
 **Handle for hysteroscope**				**8986.251**

Recommended accessories		Product no.
Perforated basket for hysteroscope 2 with small part basket	Internal dimensions (W x H x D): 451 x 80 x 124 mm, External dimensions (W x H x D): 467 x 90 x 132 mm	**38009**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

RIGID PREPARATION FORCEPS 7 FR



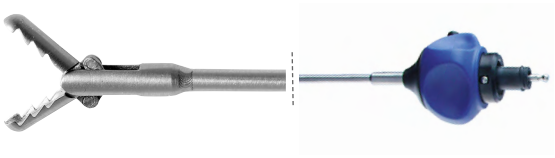
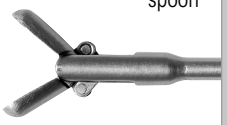
with irrigation connector	Fr	WL	TL	Product no.
 **Rigid preparation forceps 7 FR WL 371 mm** with internal and external toothing	7 Fr	371 mm	460 mm	**8992.621**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FORCEPS AND SCISSORS

SMALL MODULAR SYSTEM HySafe

360° ROTATABLE, CAN BE FLUSHED THROUGH, EASY CLICK

Grasping forceps jaw insert with sheath				Handle with overload protection	Complete instrument • Jaw section • Handle
					
	Product no.	Fr	WL	8393941	Product no.
Grasping forceps bndl angled distally with pike-mouth jaws 	8642.6508	5	340 mm	•	**8642.6502**
Grasping forceps bndl with pike-mouth jaws 	8992.6308	7	310 mm	•	**8992.6302**
Grasping forceps bndl spoon 	8642.6008	5	340 mm	•	**8642.6002**
Scissors bndl 	8642.6818	5	340 mm	•	**8642.6812**
Biopsy forceps bndl 	8642.6318	5	340 mm	•	**8642.6312**
Hook scissors bndl 	8992.6408	7	310 mm	•	**8992.6402**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

MONOPOLAR ELECTRODE 5/6 FR

MONOPOLAR



	Fr	WL	Product no.
 **Coagulation electrode mono 6 FR WL 400 mm**	6 Fr	400 mm	**823.06**
 **Needle electrode mono 5 FR WL 420 mm**	5 Fr	420 mm	**824.05**

HF connection cable: see page GYN44/45

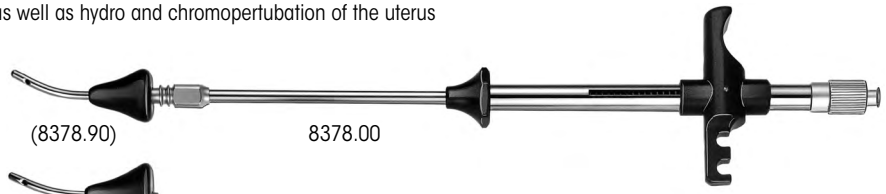
||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FOR PORTIO AND UTERUS



	WL	TL	Product no.
 **Uterus grasping forceps WL 92 mm,** by Pozzi with distally overlapping tips	92 mm	254 mm	**8370.25**
 **Uterus grasping forceps WL 100 mm,** by Gimpelson with four spherical teeth	100 mm	242 mm	**8371.10**
 **Uterus grasping forceps Ø 6.5 mm WL 100 mm,** bySairges	100 mm	262 mm	**8370.00**

for fixation, elevation, as well as hydro and chromopertubation of the uterus



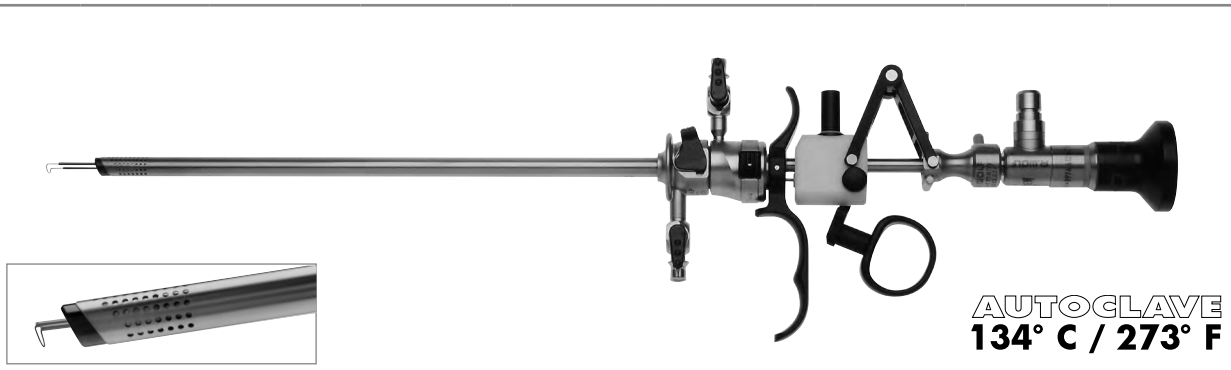
	WL	TL	Product no.
Intrauterine probes bndl consisting of: Intrauterine probe Ø 32 mm WL 32 mm, by Cohen (8378.00), conical portio adapter size small (8378.90), conical portio adapter size large (8378.91), tube with Luer-Lock connector (886.00)	32 mm	330 mm	**8378001***

*also: Uterus grasping forceps WL 92 mm, by Pozzi (8370.25)

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

PRINCESS

PETIT **R**ESECTOSCOPE **INC**LUDING
E-LINE & **S**(A)LINE **S**YSTEM



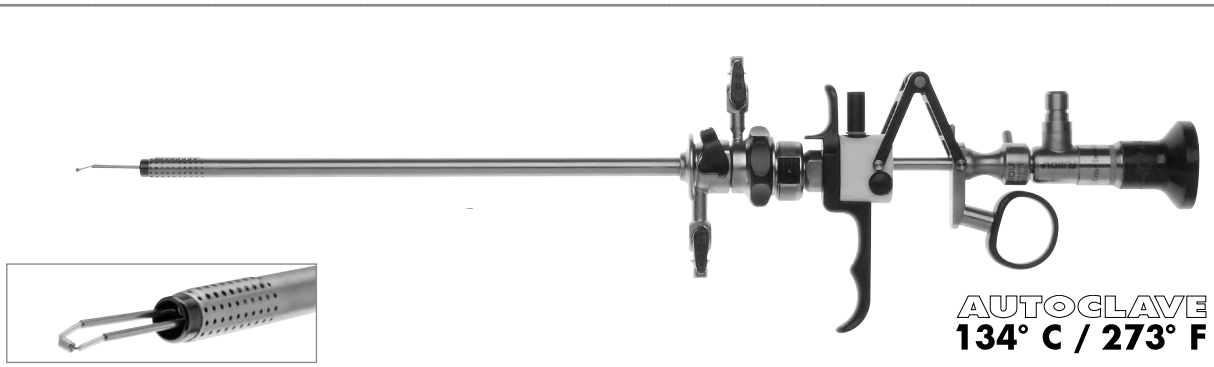
Size, Color coding	distal end	Outersheath for resecto-scope 21 FR	Inner sheath for resecto-scope 19 FR	Passive, mono/bipo working element with open handle		Telescope 12° Ø 2.7 mm SL 310 mm	Obturators	
				passive cutting	active cutting		Viewing obturator for resecto-scope 19 FR	Obturator for resecto-scope 19 FR
Sheaths								
7 mm 21 Fr black		**8653.021**	**8653.018**	**8653.224**	**8653204**	**8974.412**	**865319**	**8653.18**
also:								
Electrodes: see page GYN26 								

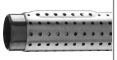
Recommended accessories		Product no.
Working insert for resectoscope for auxiliary instruments up to 7 Fr 		**8653284**
HF bipolar connection cable L 3 m	for KLS-Martin generators, M-version	**8108.231**
	for Erbe generators	**8108.232**
Container (W x H x D) 400 X 60 X 200 mm	Internal dimensions (W x H x D): 400 x 57 x 200 mm External dimensions (W x H x D): 466 x 77 x 266 mm	**33022**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (809.507), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

PRINCESS

PETIT RESECTOSCOPE INCLUDING E-LINE & S(A)LINE SYSTEM, ROTATABLE



Size, Color coding	distal end	Outersheath for resecto-scope 21 FR	Inner sheath for resecto-scope 19 FR	Working element with open handle		Telescope 12° Ø 2.7 mm SL 310 mm	Obturators	
				passive cutting	active cutting		Viewing obturator for resecto-scope 19 FR	Obturator for resecto-scope 19 FR
Sheaths								
7 mm 21 Fr black		**8653022**	**8653019**	**8653.224**	**8653204**	**8974.412**	**865319**	**8653.18**
8 mm 24.5 Fr green		**8655.334**	**8655.344**					**8654.16**

also:

Electrodes: see page GYN 26 

Recommended accessories		Product no.
Working insert for resectoscope for auxiliary instruments up to 7 Fr 		**8653284**
HF bipolar connection cable L 3 m	for KLS-Martin generators, M-version	**8108.231**
	for Erbe generators	**8108.232**
Container (W x H x D) 400 X 60 X 200 mm	Internal dimensions (W x H x D): 400 x 57 x 200 mm External dimensions (W x H x D): 466 x 77 x 266 mm	**33022**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (809.507), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ELECTRODES

FOR PRINCESS RESECTOSCOPE, TELESCOPE 2.7 MM, 12°

12°, for multiple use, monopolar/bipolar

	Designation	Bracket	for sheath sizes [in Fr]		Color coding		Product no.
			CI 21	CI 24.5	Fork	Stem	
	Cutting electrode mono 21 FR	Loop round Ø 0.3 mm	•	–	red	blue	8653.131
	Cutting electrode mono 24.5 FR	Loop round Ø 0.3 mm	–	•	blue	blue	8653.132
	Roller electrode mono 21/24.5 FR	Roll	•	•	red	blue	8653.02
	Hook electrode mono/ bipo 21/24.5 FR	Hook	•	•	red	blue	865303

• suitable for corresponding sheath size – not suitable CI = continuous irrigation

12°, disposable, sterile* bipolar

(PACK = 3 PCS)	Designation	Bracket	for sheath sizes [in Fr]		Color coding		Product no.
			CI 21	CI 24.5	Fork	Stem	
	Cutting electrode bipo 21 FR	Loop round Ø 0.3 mm	•	–	transparent	blue	46531313
	Cutting electrode bipo 24.5 FR	Loop round Ø 0.3 mm	–	•	transparent	blue	4653.1323
	Roller electrode bipo 21/24.5 FR	Roll	•	•	transparent	blue	4653.023
	BIVAP electrode bipo 21 FR	Torus	•	–	blue	blue	46530213
	BIVAP electrode bipo 24.5 FR	Torus	–	•	blue	blue	46530243
	Hook electrode 21/24.5 FR	Hook	•	•	blue	blue	4653033

• suitable for corresponding sheath size – not suitable * in individual sterile packaging CI = continuous irrigation

Recommended accessories	Product no.
Protective sterilization sleeve for connection to max. 5 electrodes, reusable 	8428.901

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

RESECTION MASTER

WITH AUTOMATIC CHIP SUCTION



Size, Color coding	distal end	Outersheath for resectoscope 27 FR	Working element passive mono/bipo / passive cutting	Telescope 30° Ø 3.3 mm SL 299 mm	Obturator for resectoscope
Sheath					
9 mm 27 Fr black		**8659.071**	**8659.2351**	**8656.422**	**8659.175**

Recommended accessories		Product no.
Tube set RESECTION PUMP 2228 disposable	PVC, (PACK = 10 PCS) in individual sterile packaging	**4170.2228**
Container (W x H x D) 400 X 60 X 200 mm	Internal dimensions (W x H x D): 400 x 57 x 200 mm External dimensions (W x H x D): 466 x 77 x 266 mm	**33022**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (809.507), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ELECTRODES

FOR RESECTION MASTER WITH AUTOMATIC CHIP SUCTION

30°, for multiple use, monopolar/bipolar

	Designation	Bracket	for sheath sizes [in Fr] CI 27	Color coding Fork	Color coding Stem	Product no.
	**Cutting electrode mono 27 FR**	Loop round Ø 0.25 mm	•	red	red	**8659.161**
	**Vapo electrode mono 27 FR**	Loop cylindrical	•	blue	blue	**8659.162**
	**Hook electrode mono/bipo 27 FR**	Hook	•	red	red	**8659163**

CI = continuous irrigation

30°, disposable, sterile*, bipolar

(PACK = 3 PCS)	Designation	Bracket	for sheath sizes [in Fr] CI 27	Color coding Fork	Color coding Stem	Product no.
	**Cutting electrode bipo 27 FR**	Loop round Ø 0.25 mm	•	blue	blue	**4659.1613**
	**Roller electrode bipo 27 FR**	Loop Roll Ø 0.3 mm	•	blue	blue	**4659.1623**

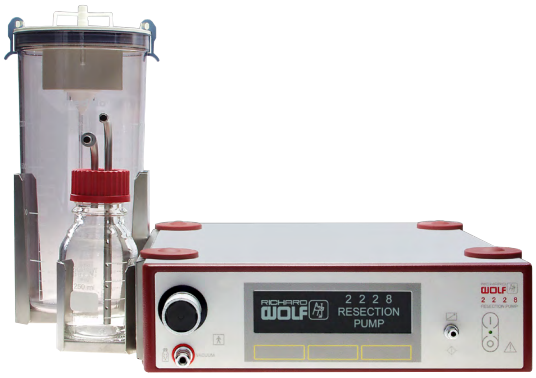
* in individual sterile packaging CI = continuous irrigation

Recommended accessories		Product no.
Protective sterilization sleeve for connection to max. 5 electrodes, reusable		**8428.901**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

RESECTION PUMP 2228

MICROPROCESSOR-CONTROLLED HIGH-PERFORMANCE CHIP SUCTION PUMP WITH CLEAR LCD DISPLAY



		Product no.
RESECTION PUMP 2228 **Suction pump**		**2228.001**
also:		
Tube set RESECTION PUMP 2228 (PACK = 10 PCS) in individual sterile packaging disposable	consisting of: Control tube, irrigation tube with check valve, chip suction tube with check valve, and pump tube	**4170.2228**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

RESECTION PUMP 2228

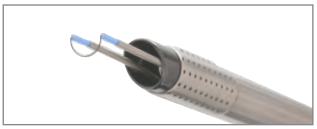
RESECTION PUMP 2228	**2228.001**
Device properties	
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 800 hPa to 1,060 hPa
Storage and transport conditions	- 20°C to +60°C , 10% to 90% rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Power supply	
Mains + frequency	100–240 V~, 50/60 Hz
Power consumption	120 VA
Current rating	1.2–0.5
Fuse	T 1.6 AL 250 V
Regulatory standards	
Protection class to EN/IEC 60601-1 (UL 2601-1/CSA C22.2 No.601.1 – for USA)	I
Electromagnetic compatibility (EMC)	EN/IEC 60601-1-2
Medical Devices Directive 93/42/EEC	Class II a
Degree of protection against the ingress of liquids	IP 20 (not protected)
Noise level	55 dB (A) (pump "ON" with container)
Operating mode	Continuous operation
Protection against electric shock	Type BF applied part
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate this device in explosive atmospheres)
Dimensions and weights	
Weight, bndl with accessories	8.9 kg (19.6 lbs)
Dimensions (W x H x D)	340 mm x 105 mm x 420 mm
Space requirements with bottle holder (W x H x D)	470 mm x 410 mm x 430 mm
Relevant application parameters	
Vacuum Operation vacuum Maximum vacuum	 650 to 750 mbar +/- 50 mbar 750 mbar +/- 50 mbar
Suction pulse Level 1 (low) Level 2 (medium) Level 3 (high)	 3.8 ml +/- 0.5 ml 6.2 ml +/- 0.7 ml 9.2 ml +/- 1.0 ml

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

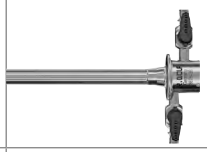
Shark BIPOLAR RESECTOSCOPE
FOR TELESCOPE 4 MM, 30°, 12
WITH CONTINUOUS IRRIGATION DOUBLE SHEATH SYSTEM FOR RESECTION IN SALINE SOLUTION

Working element, inner sheath, and telescope rotate in outer sheath

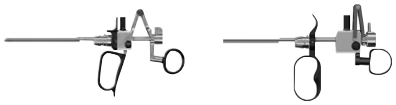




AUTOCLAVE
134° C / 273° F

Size, Color coding	distal end	Outersheath for resectoscope 24 FR	Inner sheath for resectoscope 22 FR	Telescope 30° Ø 4 mm NL 300 mm	Telescope 12° Ø 4 mm WL 297 mm	Obturators	
						Obturator for resectoscope 22 FR	Viewing obturator for resecto-scope 22 FR
Sheaths							
22/24 Fr green		**8675424**	**8675322**	**8654.422**	**8654.431**	**8673022**	**8673122**

also:

Working elements: see page GYN32 

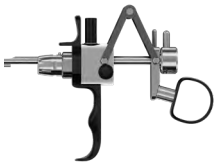
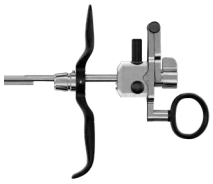
Electrodes: see page GYN33 

Recommended accessories		Product no.
HF bipolar connection cable		**See page GYN54/55**
Perforated basket for standard telescope 2	Internal dimensions (W x H x D): 454 x 52 x 40 mm External dimensions (W x H x D): 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

WORKING ELEMENTS

FOR Shark BIPOLAR RESECTOSCOPES
TELESCOPE 4 MM, 30°, 12°

		Handle variants	cutting	Product no.
Active working element bipo 0/12/30° Cut is made against spring pressure		open	**active**	**8680.204**
Active working element bipo 0/12/30° Cut is made against spring pressure		closed		**8680.205**
Passive working element bipo 0/12/30° Cut is made with spring pressure		open	**passive**	**8680.224**
Passive working element bipo 0/12/30° Cut is made with spring pressure		closed		**8680.225**

Recommended accessories		Product no.
Rubber cap, black (PACK = 5 PCS)	for sealing off the electrode clamping mechanism on the working element	**8880**
Thumb ring with relatively large inner diameter		**15008.159**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ELECTRODES

FOR Shark BIPOLAR RESECTOSCOPES
TELESCOPE 4 MM, 30°, 12°

12°/30°, for multiple use, bipolar

	Designation	Bracket	for sheath sizes [in Fr] CI 22/24	Color coding Fork	Color coding Stem	Model
	**Cutting electrode bipo 22 FR 12/30°**	Loop round Ø 0.3 mm	•	blue	yellow	**8622133**
	**Coag. electrode bipo 22–26 FR 12/30°**	Cylinder Ø 1.2 mm	•	blue	yellow	**8623022**
	**Hook electrode bipo 22–26 FR 12/30°**	Hook	•	blue	yellow	**862309**

• suitable for corresponding sheath size CI = continuous irrigation

12°/30°, disposable, sterile*, bipolar

(PACK = 3 PCS)	Designation	Bracket	for sheath sizes [in Fr] CI 22/24	Color coding Fork	Color coding Stem	Model
	**Cutting electrode mono 22 FR 12/30°**	Loop round Ø 0.25 mm	•	blue	blue	**4622.2533**
	Cutting electrode bipo 22 FR 12/30°	Loop round Ø 0.3 mm	•	blue	blue	**4622.1333**
	**Coag. electrode bipo 22 FR 12/30°**	Cylinder Ø 1.2 mm	•	blue	blue	**4623.0243**
	**BIVAP electrode bipo 22 FR 12/30°**	Torus	•	blue	blue	**46300223**

• suitable for corresponding sheath size * in individual sterile packaging CI = continuous irrigation

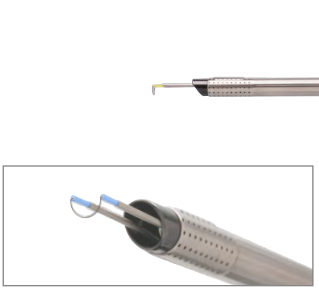
Recommended accessories		Product no.
Protective sterilization sleeve for connection to max. 5 electrodes, reusable		**8428.901**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

Shark MONOPOLAR RESECTOSCOPE FOR TELESCOPE 4 MM, 30°, 12°

WITH CONTINUOUS IRRIGATION DOUBLE SHEATH SYSTEM

Working element, inner sheath, and telescope rotate in outer sheath



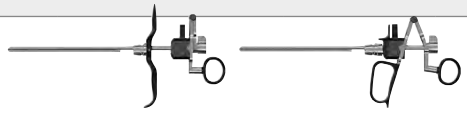


AUTOCLAVE
134° C / 273° F

Size, Color coding	distal end	Outersheath for resectoscope 24 FR	Inner sheath for resectoscope 22 FR	Telescope 30° Ø 4 mm NL 300 mm	Telescope 12° Ø 4 mm WL 297 mm	Obturators	
						Obturator for resectoscope 22 FR	Viewing obturator for resecto-scope 22 FR
Sheaths							
22/24 Fr green		**8675424**	**8675322**	**8654.422**	**8654.431**	**8673022**	**8673122**

also:

Working elements: see page GYN35



Electrodes: see page GYN36/37

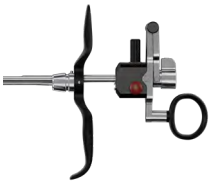


Recommended accessories		Product no.
HF monopolar connection cable		**See page GYN44/45**
Perforated basket for standard telescope 2	Internal dimensions (W x H x D): 454 x 52 x 40 mm External dimensions (W x H x D): 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (809.507), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

WORKING ELEMENTS

FOR Shark MONOPOLAR RESECTOSCOPES
TELESCOPE 4 MM, 30°, 12°

		Handle variants	cutting	Product no.
Active working element mono 12/30° Cut is made against spring pressure		closed	active	**8674205**
Active working element mono 12/30° Cut is made against spring pressure		closed with comfort thumb rest	active	**8674234**
Passive working element mono 12/30° Cut is made with spring pressure		open	passive	**8674224**
Passive working element mono 12/30° Cut is made with spring pressure		closed	passive	**8674225**

Recommended accessories		Product no.
Rubber cap, red (PACK = 5 PCS)	for sealing off the electrode clamping mechanism on the working element	**8874**
Thumb ring with relatively large inner diameter		**15008.159**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ELECTRODES

FOR Shark MONOPOLAR RESECTOSCOPES
TELESCOPE 4 MM, 30°, 12°

12°/30°, for multiple use, monopolar

	Designation	Bracket	for sheath sizes [in Fr] CI 22/24	Color coding Fork	Color coding Stem	Model
	**Cutting electrode mono 22 FR 12/30°**	Loop round Ø 0.35 mm	•	green	dark gray	**86782235**
	**Coag. electrode mono 22–24 FR 12/30°**	Roll	•	green	dark gray	**86782201**
	**Coag. electrode mono 22–24 FR 12/30°**	Sphere	•	green	dark gray	**86782202**
	**Coag. electrode mono 22–24 FR 12/30°**	Button	•	green	dark gray	**86782203**
	**Knife electrode mono 22–24 FR 12/30°**	Knife	•	green	dark gray	**86782204**
	**Hook electrode mono 22–24 FR 12/30°**	Hook	•	green	dark gray	**86782205**
	**Wing electrode mono 22 FR 12/30°**	Wing (bracket profile, flat)	•	green	dark gray	**86782206**

• suitable for corresponding sheath size CI = continuous irrigation

Recommended accessories		Product no.
Protective sterilization sleeve for connection to max. 5 electrodes, reusable		**8428.901**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

DISPOSABLE ELECTRODES

FOR Shark MONOPOLAR RESECTOSCOPES
TELESCOPE 4 MM, 30°, 12°

12°/30° disposable, sterile*, monopolar

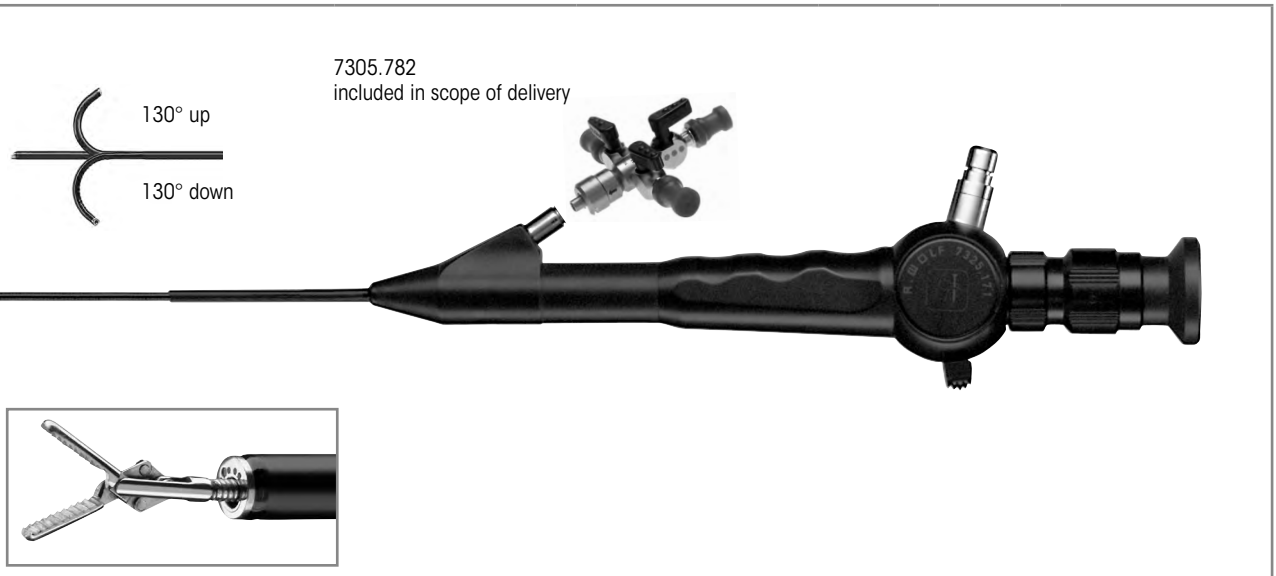
	Designation	Bracket	for sheath sizes [in Fr] CI 22/24	Color coding Fork	Color coding Stem	Model
	**Cutting electrode mono 22 FR 12/30°** (PACK = 10 PCS)	Loop round Ø 0.35 mm	•	green	transparent	**46782235**
	Cutting electrode mono 22 FR 12/30° (PACK = 10 PCS)	Loop round Ø 0.25 mm	•	green	transparent	**46782225**
	**Coag electrode mono 22–24 FR 12/30°** (PACK = 5 PCS)	Roll	•	green	transparent	**46782201**
	**Coag electrode mono 22–24 FR 12/30°** (PACK = 5 PCS)	Sphere	•	green	transparent	**46782202**
	**Coag electrode mono 22–24 FR 12/30°** (PACK = 5 PCS)	Button	•	green	transparent	**46782203**
	**Knife electrode mono 22–24 FR 12/30°** (PACK = 5 PCS)	Knife	•	green	transparent	**46782204**
	**Hook electrode mono 24 FR 12/30°** (PACK = 5 PCS)	Hook	•	green	transparent	**46782205**

• suitable for corresponding sheath size * in individual sterile packaging CI = continuous irrigation

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLEXIBLE FIBER HYSTEROSCOPE

2.5 MM/7.5 FR



	Outer Ø	Working channel	WL	TL	Product no.
Fiber Hysteroscope **Ø 2.5 mm WL 200 mm** Slanted distal tip articulation +130/-130° direction of view 0°, angle of view 60°	2.5 mm 7.5 Fr /*Fr*	1.2 mm 3.6 Fr	200 mm	450 mm	**7325.122**
on request					
	**Flex. grasping forceps Ø 1 mm WL 600 mm,** rippled		600 mm	736 mm	**7223.65**

Recommended accessories		Product no.
Sterilization basket for flexible endoscopes	(W x H x D): 448 x 288 x 106 mm	**33016**
Fiber light cable bndl consisting of: Fiber light cable Ø 1.6 mm TL 1.8 m (80661618), projector-side adapter (809.507), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806616181**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

SUCTION IRRIGATION PUMP





		Product no.
FLUID CONTROL 2225 **Irrigation pump for HYS/URO/LAP**	Fluid management for flushing irrigation fluids into the uterus , as well as the upper and lower urinary tract, and for suction and irrigation in the abdomen	**2225001**
FLUID CONTROL 2225 **Irrigation pump for HYS/URO/LAP bndl**	consisting of: Irrigation pump for HYS/URO/LAP (2225001) Power cable (2440.03)	**22250011**
also:		
Balancing module	for hysteroscopy and endourology, fluid management for fluid balancing in combination with FLUID CONTROL 2225, mobile stand with integrated weighing cells and space for up to 4 irrigation fluid bags	**2225023**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

SUCTION IRRIGATION TUBE SETS

Irrigation			Product no.
Accessories – reusable	**Tube set with piercing spike**	with Luer-Lock connection, autoclavable, incl. 10 spare membranes, reusable for 20 reprocessing cycles	**8171223**
Accessories – disposable	**Irrigation tube set with piercing spike, L 3 m**	(PACK = 10 PCS), with Luer-Lock connection, sterile, disposable product	**4171223**
	Tube set with CARE-LOCK, L 3 m	(PACK = 10 PCS), sterile, disposable product	**4171224**
	Suction irrigation tube set	(PACK = 10 PCS), with piercing spike, sterile disposable product, PVC	**4171225**
	Day irrigation tube set	(PACK = 10 PCS), sterile, disposable product, PVC	**4171226**
	Patient irrigation tube set, sterile	(PACK = 10 PCS), with Luer-Lock connection, sterile, disposable product, PVC	**4171227**
	Note: Day tube and patient tube can only be used together. A new patient tube is required for each patient – the day tube can be used for up to 20 patients.		

Suction			Product no.
Accessories – reusable	**Tube set for vacuum, incl. filter**	with integrated hygiene filter, PACK = 10 PCS, service life: 30 days (connected to irrigation pump)	**2206207**
	Irrigation tube	L 1.2 m, with Luer-Lock, for suction irrigation handle 8385901 and tube set 8171223 or 8170223	**817123**
	Suction tube L 3 m	for suction irrigation handle 8385901	**8171402**
	Secretion container, 2 l	2 liters, with lid	**8170.655**
	Secretion container, 2 l	2 liters, no lid	**8170.6551**
Accessories – disposable	**Secretion container, 2.5 l**	2.5 liters (PACK = 2 PCS)	**41706566**
	Secretion container bndl consisting of:	Secretion container 2.5 l (41706566) and secretion bag (PACK = 90 PCS) (41706564)	**4170657**
	Tube set for suction (2 connections)	sterile, disposable product, (PACK = 10 PCS) for connecting instruments to collecting container	**T0503-01**
	Angled 90° plug-in coupling	(PACK = 10 PCS) For connecting vacuum tube 2206207 to disposable container systems	**0771019**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

FLUID CONTROL 2225

CABLE ACCESSORIES

		Product no.
Patch cable, RJ45 SFTP, 0.5 m	Cable length 0.5 m	**72325378**
Patch cable, RJ45 HRS TM11, 1.0 m	Cable length 1.0 m	**72325429**
Patch cable, RJ45 S/FTP CAT.6 10 m	Cable length 10 m	**72325434**
Plastic caps for network socket	(PACK = 8 PCS)	**5592105**
Power cable	Cable length 3 m	**2440.03**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

TECHNICAL DATA

FLUID CONTROL 2225

FLUID CONTROL 2225		2225001
Device properties		
Operating conditions		+10°C to +40°C, 30% to 75% rel. humidity, 70 to 106 kPa atmospheric pressure 3,000 m max. altitude above sea level
Storage and transport conditions		- 20ºC to + 60ºC, 10% to 90% rel. humidity 70 to 106 kPa atmospheric pressure
Power supply		
Mains + frequency		100–240 V~, 50/60 Hz
Power consumption	100 V/60 Hz	110 VA
	240 V/50 Hz	120 VA
Current rating	100 V/60 Hz	1.10 A
	240 V/50 Hz	0.50 A
Fuse		T 3.15 AH, 250 V
Regulatory standards		
Protection class (I, II)		I
Electromagnetic compatibility (EMC)		EN 60601-1/IEC 60601-1 EN 60601-1-2/IEC 60601-1-2
Medical Devices Directive 93/42/EEC		Class IIb
Housing protection rating (IP code)		IP21
Protection against electric shock		Type BF applied part
Degree of protection in the presence of flammable mixtures		Device is not protected against explosions (do not operate this device in explosive atmospheres)
Maximum suction vacuum		-60 kPa
Dimensions and weights		
Weight		8.8 kg
Dimensions (W x H x D)		300 mm x 157 mm x 436 mm

Relevant application parameters	
Nominal flow range	Hysteroscopy: 800 ml/min (max. flow, not adjustable) Endourology: 10–800 ml/min (max. flow) Laparoscopy: 0.1–1.8 l/min (max. flow)
Suction power	max. 2 l/min
Starting nominal pressure range	Hysteroscopy: 15–200 mmHg Endourology: 15–90 mmHg/20–120 cmH2O Laparoscopy: 300 mmHg (not adjustable)
Pressure	0–300 mmHg
Deficit	-9,990 to +9,990 ml/0 to 99.9 l

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TECHNICAL DATA

FLUID CONTROL 2225

Balancing module	2225023
Device properties	
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, 70 to 106 kPa atmospheric pressure 3,000 m max. altitude above sea level
Storage and transport conditions	- 20ºC to + 60ºC, 10% to 90% rel. humidity 70 to 106 kPa atmospheric pressure
Regulatory standards	
Electromagnetic compatibility (EMC)	EN 60601-1/IEC 60601-1 EN 60601-1-2/IEC 60601-1-2
Housing protection rating (IP code)	IP21
Maximum load of container scale	16 kg/4 containers of 3 l each
Maximum load of bag scale	23 kg/4 bags of 5 l each
Dimensions and weights	
Weight	15.4 kg
Dimensions (W x H x D)	618 mm x 1,064 mm x 618 mm

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE MONO
815xxx

Instrument connector	Device connector		Product no.
WOLF Resectoscopes 	 ERBE (ACC/ICC/VIO)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260002	**HF connection cable mono L 3 m**	**815.032**
		HF connection cable mono L 5 m	**815.052**
	 ERBE (T series)	**HF connection cable mono L 3 m**	**815.132**
		HF connection cable mono L 5 m	**815.152**
HF electrodes, monopolar 	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable mono L 3 m**	**815.031**
		HF connection cable mono L 5 m	**815.051**
	 Bovie/Valleylab/Erbe (Int.)/ BOWA (Int.) R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**815.033**
		HF connection cable mono L 5 m	**815.053**
	 BOWA (Int./EU) Eschmann and other devices with 4 mm plugs R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**815.034**
		HF connection cable mono L 5 m	**815.054**

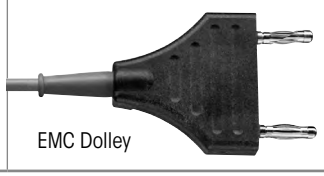
||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE MONO
8106XXX

Instrument connector	Device connector		Product no.
WOLF Instruments/surgical generator 	 ERBE (ACC/ICC/VIO)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260002	**HF connection cable mono L 3 m**	**8106.032**
		HF connection cable mono L 5 m	**8106.052**
	 ERBE (T series)	**HF connection cable mono L 3 m**	**8106.132**
		HF connection cable mono L 5 m	**8106.152**
HF electrodes, monopolar 	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable mono L 3 m**	**8106.031**
		HF connection cable mono L 5 m	**8106.051**
	 Bovie/Valleylab/Erbe (Int.)/ BOWA (Int.) R. Wolf HF surgical generator 400 kHz 2260001	**HF connection cable mono L 3 m**	**8106.033**
		HF connection cable mono L 5 m	**8106.053**
	 BOWA (Int./EU) Eschmann and other devices with 4 mm plugs R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable mono L 3 m**	**8106.034**
		HF connection cable mono L 5 m	**8106.054**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

BIPO HF CONNECTION CABLE
8108xxx

Instrument connector	Device connector		Product no.
WOLF **Bipolar forceps** 	 ERBE (ACC/ICC/T)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.032**
		HF connection cable **bipo; L 5 m**	**8108.052**
	 International / 2-pin Valleylab R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.033**
		HF connection cable **bipo; L 5 m**	**8108.053**
	 WOLF/Martin (M-version)/ Berchtold/Aesculap	**HF connection cable** **bipo; L 3 m**	**8108.031**
		HF connection cable **bipo; L 5 m**	**8108.051**
	 EMC Dolley	**HF connection cable** **bipo; L 3 m**	**8108035**
Bipolar tweezers connection 	 ERBE (ACC/ICC/T)/BOWA (EU) R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.132**
		HF connection cable **bipo; L 5 m**	**8108.152**
	 International / 2-pin Valleylab R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable** **bipo; L 3 m**	**8108.133**
		HF connection cable **bipo; L 5 m**	**8108.153**
	 Martin (M-version)/Berchtold/ Aesculap	**HF connection cable** **bipo; L 3 m**	**8108.131**
		HF connection cable **bipo; L 5 m**	**8108.151**
	 EMC Dolley	**HF connection cable** **bipo; L 3 m**	**8108135**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

HF CONNECTION CABLE BIPO
FOR RESECTION IN SALINE SOLUTION

Instrument connector	Device connector		Product no.
WOLF S(α)line resectoscopes 	 Erbe VIO 300D	**Bipolar cable; TUR/TCR; WOLF** MF plug; L 4 m	**20196-119**
	 Erbe VIO 3	**BIPOLAR CABLE; MF-U** MF plug; L 4.5 m	**21196-119**
	 KLS Martin	**HF connection cable bipo; L 3 m**	**8108.231**
		HF connection cable bipo; L 5 m	**8108.251**
	 R. Wolf HF surgical generator 400 kHz 2260001/2260002	**HF connection cable bipo; L 3 m**	**8108233**
		HF connection cable bipo; L 5 m	**8108253**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

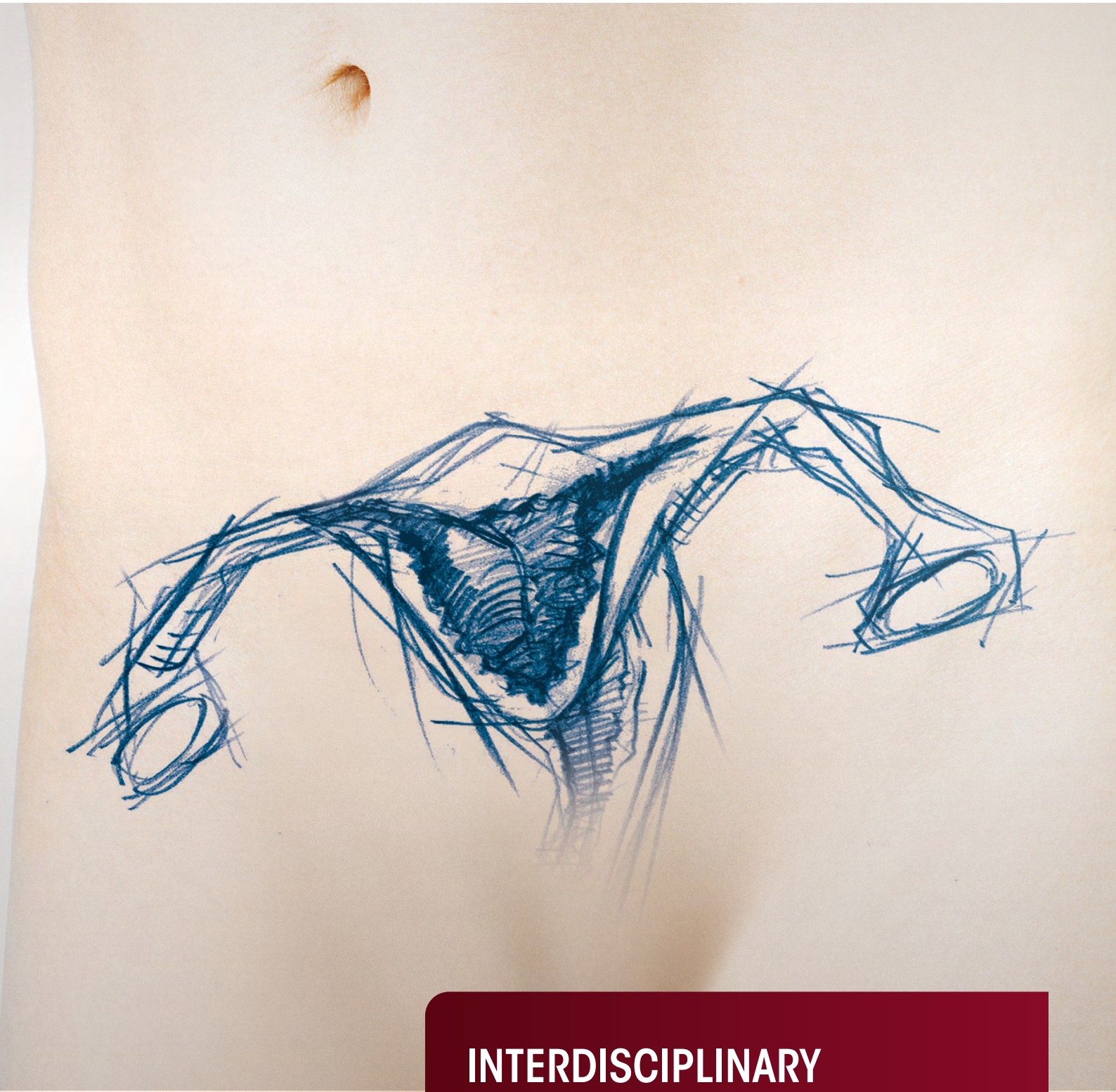
MONO HF NEUTRAL ELECTRODE CABLE

Instrument connector	Device connector		Product no.
2-pole neutral electrode 	 R. Wolf HF surgical generator 400 kHz 2260001/2260002	**Mono HF neutral electrode cable, L 4.5 m**	**2260031**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

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INTERDISCIPLINARY APPLICATIONS

CYSTO-URETHROSCOPY

INTERDISCIPLINARY APPLICATIONS

1 CYSTO-URETHROSCOPE 8650 FOR TELESCOPE 4 MM, 0°, 5°, 30°, 70° (TVT)

2 CYSTOSCOPE 14, 17 FR, 25°

CYSTO-URETHROSCOPE 8650

E-line

FOR TELESCOPE 4 MM, 0°, 12°, 30°, 70° AND ADAPTERS



Sheaths and obturators						Adapters		
						 only for diagnostics	 1 instrument port	 2 instrument ports
Sheath for cystoscope with obturator	**Sheath for cystoscope single**	**Obturator for cystoscope single**	**Fr**	**Color coding**	**Capacity in Fr**	**Adapter for cystoscope TL 60 mm**	**Adapter for cystoscope TL 60 mm**	**Adapter for cystoscope TL 60 mm**
8650.0141	**8650.0145**	**8650.0147**	16 FR	yellow	1x5*	**8650.254**	**8650.264**	**8650.284**
8650.0241	**8650.0245**	**8650.0247**	17.5 FR	green	1x5 oder 2x4			
8650.0341	**8650.0345**	**8650.0347**	19.5 FR	red	1x7 oder 2x5			
8650.0441	**8650.0445**	**8650.0447**	21 FR	blue	1x10 oder 2x6			
8650.0541	**8650.0545**	**8650.0547**	23 FR	white	1x12 oder 2x7			
8650.0641	**8650.0645**	**8650.0647**	25 FR	black	1x5			

also: 

	Direction of view	Ø	WL	TL	Product no.
Telescope 0° Ø 4 mm NL 298 mm	0°	4 mm	298 mm	365 mm	**8650.414**
Telescope 12° Ø 4 mm NL 297 mm	12°		297 mm	363 mm	**8654.431**
Telescope 30° Ø 4 mm NL 300 mm	30°		300 mm	364 mm	**8654.422**
Telescope 70° Ø 4 mm NL 302 mm	70°		302 mm	364 mm	**8650.415**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Internal dimensions (W x H x D): 454 x 52 x 40 mm External dimensions (W x H x D): 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

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CYSTO-URETHROSCOPE 8650

E-line

FOR TELESCOPE 4 MM, 30°, 70° AND INSERTS WITH ALBARRAN LEVER



AUTOCLAVE
134° C / 273° F

Sheaths and obturators						Inserts with Albarran lever	
						 1 instrument port	 2 instrument ports
Sheath for cystoscope with obturator	**Sheath for cystoscope single**	**Obturator for cystoscope single**	**Fr**	**Color coding**	**Capacity in Fr**	**Working insert for cystoscope 30/70**	**Working insert for cystoscope 0/30/70**
8650.0241	**8650.0245**	**8650.0247**	17.5 FR	yellow	1 x 5 or 2 x 4	**8650.214**	**8650.204**
8650.0341	**8650.0345**	**8650.0347**	19.5 FR	green	1 x 7 or 2 x 5		
8650.0441	**8650.0445**	**8650.0447**	21 FR	red	1 x 10 or 2 x 6		
8650.0541	**8650.0545**	**8650.0547**	23 FR	blue	1 x 12 or 2 x 7		

also: 

	Direction of view	Ø	WL	TL	Product no.
Telescope 30° Ø 4 mm NL 300 mm	30°	4 mm	300 mm	364 mm	**8654.422**
Telescope 70° Ø 4 mm NL 302 mm	70°	4 mm	302 mm	364 mm	**8650.415**

Recommended accessories		Product no.
Perforated basket for standard telescope 2	Internal dimensions (W x H x D): 454 x 52 x 40 mm External dimensions (W x H x D): 481 x 54 x 59 mm	**38016**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||123|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

ATRAUMATIC COMPACT CYSTO-URETHROSCOPE

14/17 FR, 25° AND ADAPTERS



	Viewing direction	WL	TL	Sheath	Working channel for auxiliary instruments	Working channel Form	Product no.
Cystoscope 25°, 14 FR, WL 218 mm with straight eyepiece, atraumatically shaped tip	25°	218 mm	358 mm	14 Fr	to 5 Fr	oval	**8642.403**
Cystoscope 25°, 17 FR, WL 224 mm with straight eyepiece, atraumatically shaped tip	25°	224 mm	364 mm	17 Fr	to 7 Fr	oval	**8645.403**

also:

		WL	TL	Fr	Product no.
	**Flex. biopsy forceps 7 FR WL 375 mm**	375 mm	490 mm	7	**829.07**
	Flex. biopsy forceps 5 FR WL 315 mm	315 mm	465 mm	5	**829.05**
	**Flex. grasping forceps 7 FR WL 365 mm**	365 mm	515 mm	7	**828.07**
	Flex. grasping forceps 5 FR WL 315 mm	315 mm	465 mm	5	**828.05**
	**Flex. scissors 7 FR WL 375 mm**	375 mm	490 mm	7	**830.07**
	**Coagulation electrode mono 6 FR WL 400 mm**	400 mm	-	6	**823.06**
Electrode shape: Button	**Coagulation electrode mono 5 FR WL 400 mm**	400 mm	-	5	**823.05**

Recommended accessories		Product no.
Perforated basket for cysto-urethroscope	Internal dimensions (W x H x D): 435 x 54 x 73 mm External dimensions (W x H x D): 451 x 64 x 80 mm	**38013**
Fiber light cable bndl consisting of: Fiber light cable (80662523), projector-side adapter (8095.07), and endoscope-side adapter (809509)	Ø 2.5 mm, 2.3 m long	**806625231**

||23|| Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

RICHARD WOLF

spirit of excellence

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