



Laparoscopy

Access, Visualization & Instrumentation

Our Vision

"True to our vision **INNOVATING TRADITION**, it has always been our goal to not only provide our customers and healthcare professionals with an industry-leading value proposition through continuous innovation in our products and processes.

Ackermann

We believe that it is equally important to not lose sight of our roots and to preserve the craftsmanship that has been perfected over generations as an established family business. This enables us to maintain a productive and sustainable home for our staff and to improve clinical outcomes every single day in over 100 countries around the world."

Peter Grassl, CEO

+ 20k SKUs

As **Full-Range-System Manufacturer** we are able to provide you with a coherent product portfolio - from endoscopy to ligation, from implantology to general surgery.



Capabilities

+ Manufacturing

Surgical Instruments, Units, Implants, Optics

+ Regulatory

ISO 13485:2016, US FDA, CFDA, ANVISA,
COFEPRIS

+ Service

+ R&D



Global Player

Sales subsidiaries located in
Greece, India, USA & Mexico



Serving over
100
Countries

More than
80
Employees



3
Manufacturing
Sites

400
Strategic
Partners



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Basic Lap Set

Ordering Information and Recommendations

1x 4k UHD Laparoscope, 0°, Ø 10 mm, 330 mm	# 11-1130UHD
1x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
3x Threaded silicone valve trocar, demount., carbon fiber, Ø 5.5 mm	# 10-1115THC
3x Pyramidal / triangular tip obturator, Ø 5.5 mm	# 10-1034
2x Threaded silicone valve trocar, demount., carbon fiber, Ø 11 mm	# 10-1116THC
2x Pyramidal / triangular tip obturator, Ø 11 mm	# 10-1044
1x Slide-on reducer, Ø 11 / 12.5 mm to Ø 5.5 mm	# 10-1021-201
1x Reduction sleeve, Ø 11 mm to Ø 5.5 mm	# 10-1075
1x Endoscopic clinch, Ø 5 mm, 330 mm (insert)	# 13-1323XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Maryland dissecting forceps, Ø 5 mm, 330 mm (insert)	# 13-1318XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Cross-serrated grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1354XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Johan grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1312XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP



1x Hook scissors, Ø 5 mm, 330 mm (insert)	# 13-1431XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Metzenbaum scissors, curved, ceramic, Ø 5 mm, 330 mm (insert)	# 13-1461CI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Bipolar Maryland grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1701I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bipolar fenestrated grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1702I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bipolar scissors, Ø 5 mm, 330 mm (insert)	# 13-1703I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Trumpet valve handle incl. Ø 5 mm and Ø 10 mm high-flow tubes	# 11-1235
1x Verres needle, Ø 2 mm, 120 mm	# 10-1105
1x L-Hook electrode, monopolar, Ø 5 mm, 330 mm	# 11-1175
1x Fascia closing suture passer with stop, Ø 3 mm, 180mm	# 10-1114
1x Axial needleholder, right curved jaws, angled handle, Ø 5 mm	# 13-1593P
1x Axial needleholder, left curved jaws, angled handle, Ø 5 mm	# 13-1594P
1x Applicator for medium-large Europclips™, Ø 10 mm, 330 mm	# 13-1615AS
1x Medium-large Europclips™, 120 clips/ per box	# AI74CML6
1x Monopolar cable, Ackermann / Erbe T1/ Martin ¹ /Berchthold ¹ , 3 m	# 11-1260
1x Bipolar cable, EU flat plug, 2-banana, 3 m	# 13-1641



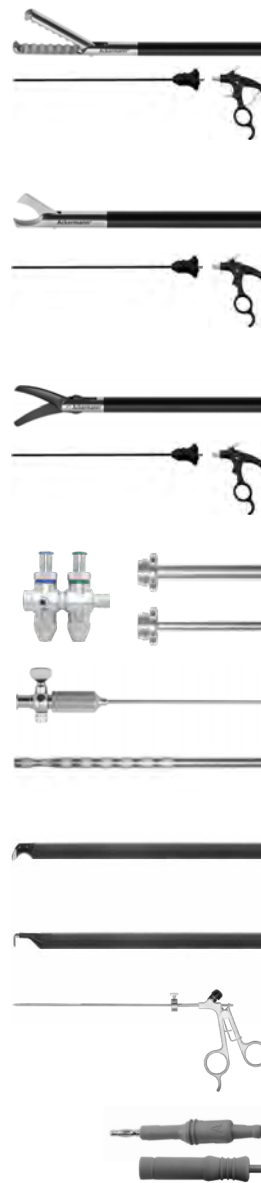
Lap Chole Set

Ordering Information and Recommendations

1x 4k UHD Laparoscope, 30°, Ø 10 mm, 330 mm	# 11-1135UHD
1x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
3x Threaded silicone valve trocar, demount., carbon fiber, Ø 5.5 mm	# 10-1115THC
1x Pyramidal / triangular tip obturator, Ø 5.5 mm	# 10-1034
1x Threaded silicone valve trocar, demount., carbon fiber, Ø 11 mm	# 10-1116THC
1x Pyramidal / triangular tip obturator, Ø 11 mm	# 10-1044
1x Slide-on reducer, Ø 11 / 12.5 mm to Ø 5.5 mm	# 10-1021-201
1x Maryland dissecting forceps, Ø 5 mm, 330 mm (insert)	# 13-1318XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Maxi fundus grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1302XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
2x Wave grasping forceps DG, double-act., Ø 5 mm, 330 mm (insert)	# 13-1381XPI
2x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
2x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Wave grasping forceps DG, single-act., Ø 5 mm, 330 mm (insert)	# 13-1375XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Mixer clamp, Ø 5 mm, 330 mm (insert)	# 13-1376XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP



1x Retraction forceps, Ø 5 mm, 330 mm (insert)	# 13-1380XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Hook scissors, Ø 5 mm, 330 mm (insert)	# 13-1431XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Metzenbaum scissors, curved, ceramic, Ø 5 mm, 330 mm (insert)	# 13-1461CI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Trumpet valve handle incl. Ø 5 mm and Ø 10 mm high-flow tubes	# 11-1235
1x Verres needle, Ø 2 mm, 120 mm	# 10-1105
1x Graduated palpation probe, Ø 5 mm, 330 mm	# 10-1110
1x Spatula electrode, monopolar, Ø 5 mm, 330 mm	# 11-1170
1x L-Hook electrode, monopolar, Ø 5 mm, 330 mm	# 11-1175
1x Fascia closing suture passer with stop, Ø 3 mm , 180mm	# 10-1114
1x Monopolar cable, Ackermann / Erbe T ¹ / Martin ¹ / Berchthold ¹ , 3 m	# 11-1260



Bariatric Lap Set

Ordering Information and Recommendations

1x 4k UHD Laparoscope, 0°, Ø 10 mm, 450 mm	# 11-1130-45UHD
1x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
3x Plain multifunct. trocar, demount., Ø 5.5 mm, 150 mm	# 10-1002-150
1x Pyramidal / triangular tip obturator, Ø 5.5 mm, 150 mm	# 10-1034-150
1x Plain multifunct. trocar, demount., Ø 11 mm, 150 mm	# 10-1012-150
1x Pyramidal / triangular tip obturator, Ø 11 mm, 150 mm	# 10-1044-150
1x Slide-on reducer, Ø 11 / 12.5 mm to Ø 5.5 mm	# 10-1021-201
1x Reduction sleeve, Ø 11 mm to Ø 5.5 mm	# 10-1075
1x Duval grasping forceps, Ø 10 mm, 450 mm (insert)	# 13-1580XPI-45
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 450 mm	# 13-1357XP-45
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x US Babcock grasping forceps, Ø 10 mm, 450 mm (insert)	# 13-1544XPI-45
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 450 mm	# 13-1357XP-45
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Johan grasping forceps, Ø 5 mm, 450 mm (insert)	# 13-1312XPI-45
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 450 mm	# 13-1356XP-45
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Maryland grasping forceps, Ø 10 mm, 450 mm (insert)	# 13-1411XPI-45
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 450 mm	# 13-1357XP-45
1x XPress Lock™ handle with universal ratchet	# 13-1368XP



1x Maxi fundus grasping forceps, Ø 5 mm, 450 mm (insert)	# 13-1302XPI-45
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 450 mm	# 13-1356XP-45
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Endoscopic clinch, Ø 5 mm, 450 mm (insert)	# 13-1323XPI-45
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 450 mm	# 13-1356XP-45
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Hook scissors, Ø 5 mm, 450 mm (insert)	# 13-1431XPI-45
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 450 mm	# 13-1356XP-45
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Metzenbaum scissors, curved, ceramic, Ø 5 mm, 450 mm (insert)	# 13-1461CI-45
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 450 mm	# 13-1356XP-45
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Bipolar Maryland grasping forceps, Ø 5 mm, 450 mm (insert)	# 13-1701I-45
1x Sheath for bipolar detachable instruments, Ø 5 mm, 450 mm	# 13-1700R-45
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bipolar fenestrated grasping forceps, Ø 5 mm, 450 mm (insert)	# 13-1702I-45
1x Sheath for bipolar detachable instruments, Ø 5 mm, 450 mm	# 13-1700R-45
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bipolar scissors, Ø 5 mm, 450 mm (insert)	# 13-1703I-45
1x Sheath for bipolar detachable instruments, Ø 5 mm, 450 mm	# 13-1700R-45
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Trumpet valve handle	# 11-1235-102
1x High-flow tube with drillings, Ø 5 mm, 450 mm	# 11-1235-100-45
1x Verres needle, Ø 2 mm, 120 mm	# 10-1105
1x Esophageal retractor, Ø 10 mm, 330 mm	# 13-1668-10
1x Esophageal retractor, Ø 10 mm, 450 mm	# 13-1668-10-45
1x L-Hook electrode, monopolar, Ø 5 mm, 450 mm	# 11-1175-45



- 1x Fascia closing suture passer with stop, Ø 3 mm , 180mm # 10-1114
- 1x Axial needleholder, right curved, angled handle, Ø 5 mm, 450 mm # 13-1593P-45
- 1x Axial needleholder, left curved, angled handle, Ø 5 mm, 450 mm # 13-1594P-45
- 1x Applicator for medium-large Europclips™, Ø 10 mm, 330 mm # 13-1615AS
- 1x Medium-large Europclips™, 120 clips/ per box # AI74CML6
- 1x Monopolar cable, Ackermann / Erbe T¹/ Martin¹/Berchthold¹ , 3 m # 11-1260
- 1x Bipolar cable, EU flat plug, 2-banana , 3 m # 13-1641





Urology Lap Set

Ordering Information and Recommendations

1 x 4k UHD Laparoscope, 30°, Ø 10 mm, 330 mm	# 11-1135UHD
1 x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1 x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1 x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
3 x Plain silicone valve trocar, demountable, carbon fiber, Ø 5.5 mm	# 10-1115
3 x Pyramidal / triangular tip obturator, Ø 5.5 mm, 150 mm	# 10-1034
2 x Plain silicone valve trocar, demountable, carbon fiber, Ø 11 mm	# 10-1116
2 x Pyramidal / triangular tip obturator, Ø 11 mm, 150 mm	# 10-1044
2 x Plain silicone valve trocar, demountable, carbon fiber, Ø 12.5 mm	# 10-1117
2 x Pyramidal / triangular tip obturator, Ø 11 mm, 150 mm	# 10-1049
2 x Flip-on reducer, Ø 11 mm to Ø 5.5 mm	# 10-1021-101
1 x Slide-on reducer, Ø 11 / 12.5 mm to Ø 5.5 mm	# 10-1021-201
2 x Manhes grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1326XPI
2 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
2 x XPress Lock™ handle with universal ratchet	# 13-1368XP
1 x Kelly dissecting forceps, Ø 5 mm, 330 mm (insert)	# 13-1419XPI
1 x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1356XP
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP
2 x Dissecting forceps, Ø 5 mm, 330 mm (insert)	# 13-1422XPI
2 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
2 x XPress Lock™ handle w/o ratchet	# 13-1367XP



1x Dissecting forceps, Ø 10 mm, 330 mm (insert)	# 13-0530XPI
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1357XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Maryland dissecting forceps, Ø 10 mm, 330 mm (insert)	# 13-1340XPI
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1357XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Biopsy spoon forceps, Ø 10 mm, 330 mm (insert)	# 13-1660XPI
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1357XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Metzenbaum scissors, curved, ceramic, Ø 5 mm, 330 mm (insert)	# 13-1461CI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Bipolar Maryland grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1701I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Modular handle for 3 mm / 5 mm / 10 mm suction-irrigation tubes	# 11-1236
1x Standard tube, Ø 5 mm	# 11-1237
1x Verres needle, Ø 2 mm, 120 mm	# 10-1105
1x Axial needleholder, straight jaws, angled handle, Ø 5 mm, 330 mm	# 13-1591P
1x Axial needleholder, self-upright., angled handle, Ø 5 mm, 330 mm	# 13-1590PSFU
1x Monopolar cable, Ackermann / Erbe T ¹ / Martin ¹ / Berchthold ¹ , 3 m	# 11-1260
1x Bipolar cable, EU flat plug, 2-banana, 3 m	# 13-1641



Gynaecology Lap Set

Ordering Information and Recommendations

1 x 4k UHD Laparoscope, 0°, Ø 10 mm, 330 mm	# 11-1130UHD
1 x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1 x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1 x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
3 x Plain silicone valve trocar, demountable, carbon fiber, Ø 5.5 mm	# 10-1115
3 x Blunt obturator, Ø 5.5 mm	# 10-1034BL
2 x Plain silicone valve trocar, demountable, carbon fiber, Ø 11 mm	# 10-1116
2 x Blunt obturator, Ø 11 mm	# 10-1044BL
1 x Allis grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1350XPI
1 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1 x XPress Lock™ handle with universal ratchet	# 13-1368XP
1 x Claw forceps, Ø 5 mm, 330 mm (insert)	# 13-1606XPI
1 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1 x XPress Lock™ handle with universal ratchet	# 13-1368XP
1 x Johan grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1312XPI
1 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP
1 x Tenaculum grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1537XPI
1 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1 x XPress Lock™ handle with universal ratchet	# 13-1368XP
1 x Kelly dissecting forceps, Ø 5 mm, 330 mm (insert)	# 13-1419XPI
1 x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1357XP
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP

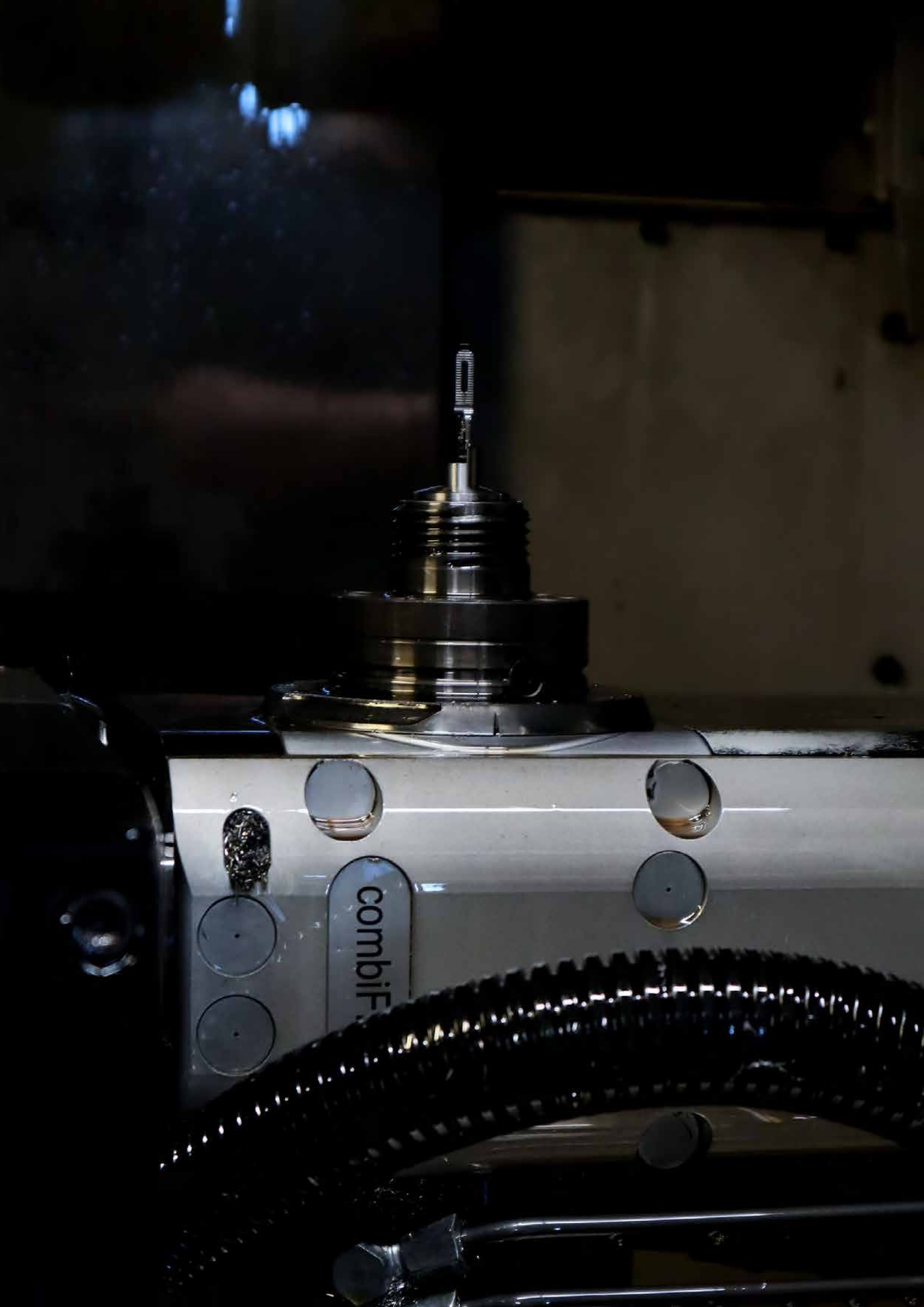


1x Biopsy spoon forceps, Ø 10 mm, 330 mm (insert)	# 13-1660XPI
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1357XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Hook scissors, Ø 5 mm, 330 mm (insert)	# 13-1431XPI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Metzenbaum scissors, curved, ceramic, Ø 5 mm, 330 mm (insert)	# 13-1461CI
1x Sheath for XPress Lock™ inserts, Ø 5 mm, 330 mm	# 13-1356XP
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Claw forceps, Ø 10 mm, 330 mm (insert)	# 13-1605XPI
1x Sheath for XPress Lock™ inserts, Ø 10 mm, 330 mm	# 13-1357XP
1x XPress Lock™ handle with universal ratchet	# 13-1368XP
1x Bipolar Maryland grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1701I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bipolar fenestrated grasping forceps, Ø 5 mm, 330 mm (insert)	# 13-1702I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Bi. fenestrated grasping forceps, curved, Ø 5 mm, 330 mm (insert)	# 13-1706I
1x Sheath for bipolar detachable instruments, Ø 5 mm, 330 mm	# 13-1700R
1x Handle for bipolar detachable instruments	# 13-1700SI
1x Modular handle for 3 mm / 5 mm / 10 mm suction-irrigation tubes	# 11-1236
1x Standard tube, Ø 5 mm	# 11-1237
1x Suction needle, Ø 5 mm	# 11-1237-400
1x Verres needle, Ø 2 mm, 120 mm	# 10-1105
1x Knot pusher, open eyelet, Ø 4 mm, 330 mm	# 13-1617
1x Two-way handle for adaptable suction-irrigation electrodes	# 11-1173



1x L-Hook electrode, adaptable, monopolar, Ø 5 mm, 330 mm	# 11-1179
1x Button electrode, adaptable, monopolar, Ø 5 mm, 330 mm	# 11-1184
1x Needle electrode, adaptable, monopolar, Ø 5 mm, 330 mm	# 11-1200
1x Axial needleholder, right curved, angled handle, Ø 5 mm, 330 mm	# 13-1593P
1x Axial needleholder, left curved, angled handle, Ø 5 mm, 330 mm	# 13-1594P
1x Myoma screw, Ø 5 mm, 380 mm	# 10-1096
1x Uterus manipulator without adapters	# 18-2356
1x Portio adapter, curved, Ø 8 mm / 80 mm	# 18-2356-100
1x Portio adapter, curved, Ø 10 mm / 100 mm	# 18-2356-200
1x Portio adapter, cone shaped, short	# 18-2356-500
1x Portio adapter, cone shaped, long	# 18-2356-600
1x Monopolar cable, Ackermann /Erbe T ¹ / Martin ¹ /Berchthold ¹ , 3 m	# 11-1260
1x Bipolar cable, EU flat plug, 2-banana , 3 m	# 13-1641





Combiflex

Pediatric Lap Set

Ordering Information and Recommendations

1 x 4k UHD Laparoscope, 0°, Ø 5 mm, 330 mm	# 11-1120UHD
1 x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m	# 11-1161
1 x Adaptor scope-side, Ackermann / Storz ¹ / Olympus ¹	# 11-1146-100
1 x Adaptor lightsource-side, Ackermann / Storz ¹	# 11-1147-100
1 x Plain silicone valve trocar, demount., carbon fiber, Ø 5.5 mm	# 10-1115
1 x Conical tip obturator, Ø 5.5 mm	# 10-1035
4 x Miniature silicone valve trocar, Ø 3 mm, 70 mm	# 23-3086
4 x Miniature triangular tip obturator for 23-3086, Ø 3 mm	# 23-3021
1 x Verres needle, Ø 2 mm, 100 mm	# 10-1100
1 x Miniature Metzenbaum scissors, Ø 2.9 mm, 200 mm (insert)	# 23-3000XPI-20
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP
2 x Miniature grasping forceps, Ø 2.9 mm, 200 mm (insert)	# 23-3015XPI-20
2 x XPress Lock™ handle w/o ratchet	# 13-1367XP
1 x Miniature bowel grasping forceps, Ø 2.9 mm, 200 mm (insert)	# 23-3082XPI-20
1 x XPress Lock™ handle with french ratchet	# 13-1369XP
1 x Miniature hook scissors, Ø 2.9 mm, 200 mm (insert)	# 23-3001XPI-20
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP
1 x Miniature Kelly grasping forceps, Ø 2.9 mm, 200 mm (insert)	# 23-3020XPI-20
1 x XPress Lock™ handle w/o ratchet	# 13-1367XP



1x Miniature Pylorus grasping forceps, Ø 2.9 mm, 200 mm (insert)	# 23-3092XPI-20
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Mini bipolar Maryland grasping forceps, Ø 3 mm, 290 mm (insert)	# 23-3025BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Mini bipolar fenestrated grasping forceps, Ø 3 mm, 290 mm (insert)	# 23-3082BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Mini bipolar Metzenbaum scissors, Ø 3 mm, 290 mm (insert)	# 23-3000BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Modular handle for 3 mm / 5 mm / 10 mm suction-irrigation tube	# 11-1236
1x Standard tube, Ø 3 mm	# 11-1237-700
1x L-Hook electrode, monopolar, Ø 3 mm, 200 mm	# 23-3070-20
1x Axial needleholder, right curved jaws, angled handle, Ø 3 mm	# 23-3027P-20
1x Axial needleholder, left curved jaws, angled handle, Ø 3 mm	# 23-3028P-20
1x Monopolar cable, Erbe ACC ¹ / ICC-VIO ¹ , 3 m	# 11-1261
1x Bipolar cable, EU flat plug, 2-banana , 3 m	# 13-1641



Miniature Lap Set

Ordering Information and Recommendations

OPTIONAL

- 1x 4k UHD Laparoscope, 30°, Ø 10 mm, 330 mm # 11-1135UHD
- 1x 4k UHD Laparoscope, 30°, Ø 5 mm, 330 mm # 11-1125UHD
- 1x High performance fiber light cable, heat-shielded, Ø 4.8 mm, 3 m # 11-1161
- 1x Adaptor scope-side, Ackermann / Storz¹ / Olympus¹ # 11-1146-100
- 1x Adaptor lightsource-side, Ackermann / Storz¹ # 11-1147-100
- 1x Plain silicone valve trocar, demount., carbon fiber, Ø 5.5 mm # 10-1115
- 1x Conical tip obturator, Ø 5.5 mm # 10-1035
- 1x Plain silicone valve trocar, demount., carbon fiber, Ø 11 mm # 10-1116
- 1x Pyramidal / triangular tip obturator, Ø 11 mm # 10-1044
- 3x Miniature silicone valve trocar, Ø 3 mm, 70 mm # 23-3086
- 3x Miniature triangular tip obturator for 23-3086, Ø 3 mm # 23-3021
- 1x Verres needle, Ø 2 mm, 120 mm # 10-1105
- 1x Miniature Metzenbaum scissors, Ø 2.9 mm, 360 mm (insert) # 23-3000XPI
- 1x XPress Lock™ handle w/o ratchet # 13-1367XP
- 1x Miniature grasping forceps, Ø 2.9 mm, 360 mm (insert) # 23-3015XPI
- 1x XPress Lock™ handle w/o ratchet # 13-1367XP
- 1x Miniature bowel grasping forceps, Ø 2.9 mm, 360 mm (insert) # 23-3082XPI
- 1x XPress Lock™ handle with french ratchet # 13-1369XP



1x Miniature hook scissors, Ø 2.9 mm, 360 mm (insert)	# 23-3001XPI
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Miniature Kelly grasping forceps, Ø 2.9 mm, 360 mm (insert)	# 23-3020XPI
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Miniature Pylorus grasping forceps, Ø 2.9 mm, 360 mm (insert)	# 23-3092XPI
1x XPress Lock™ handle w/o ratchet	# 13-1367XP
1x Mini bipolar Maryland grasping forceps, Ø 3 mm, 290 mm (insert)	# 23-3025BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Mini bipolar fenestrated grasping forceps, Ø 3 mm, 290 mm (insert)	# 23-3082BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Mini bipolar Metzenbaum scissors, Ø 3 mm, 290 mm (insert)	# 23-3000BP
1x Sheath for mini bipolar detachable instruments, Ø 3 mm, 290 mm	# 23-3091
1x Handle for mini bipolar detachable instruments	# 23-3090
1x Injection needle Ø 2.8 mm, 330 mm	# 13-1619-3
1x Modular handle for 3 mm / 5 mm / 10 mm suction-irrigation tube	# 11-1236
1x Standard tube, Ø 3 mm	# 11-1237-700
1x L-Hook electrode, monopolar, Ø 3 mm, 330 mm	# 23-3070
1x Axial needleholder, right curved jaws, angled handle, Ø 3 mm	# 23-3027P
1x Axial needleholder, left curved jaws, angled handle, Ø 3 mm	# 23-3028P
1x Monopolar cable, Erbe ACC ¹ / ICC-VIO ¹ , 3 m	# 11-1261
1x Bipolar cable, EU flat plug, 2-banana, 3 m	# 13-1641



Access Instrumentation

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Reducers, Dilators & other Accessories / **p. 48 - 50**

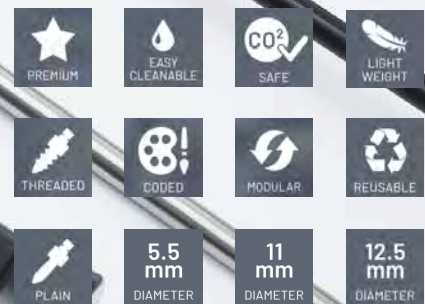
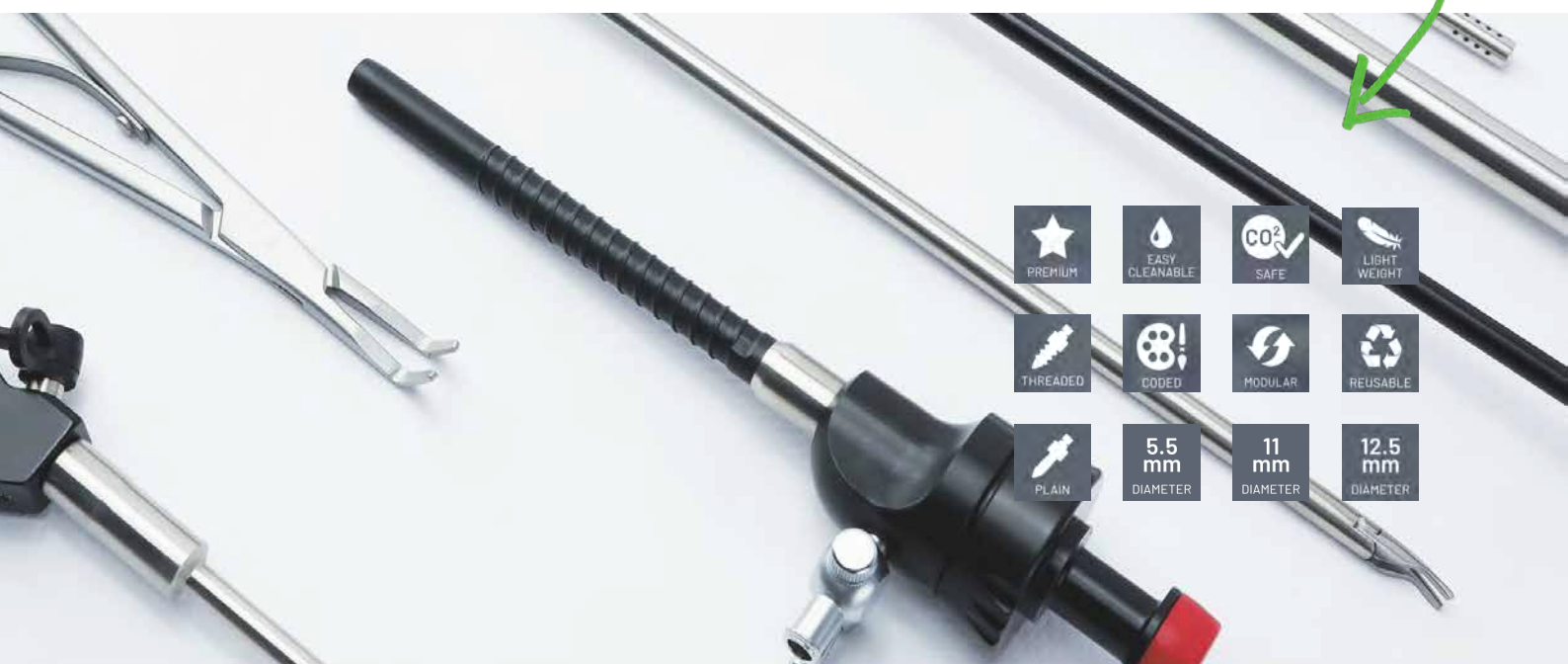




Silicone Valve Trocars

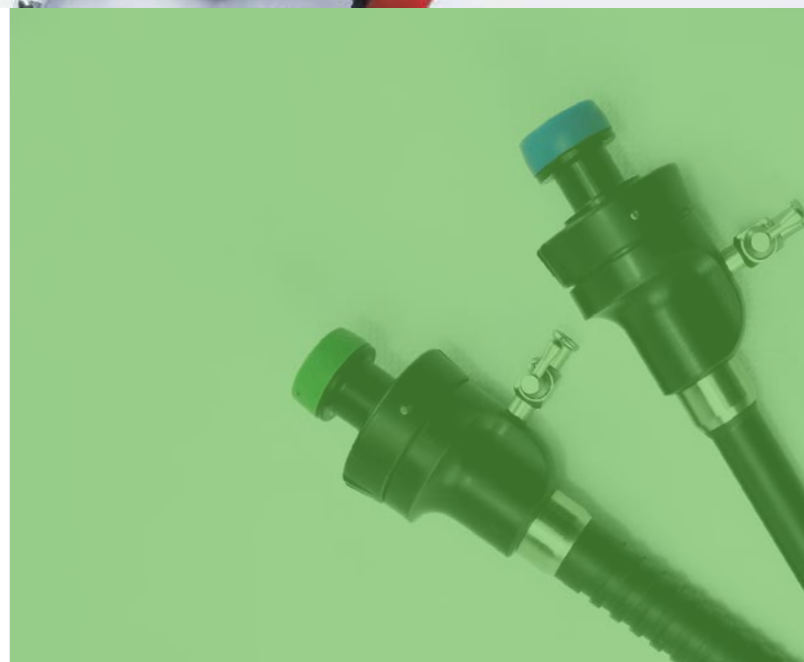
Key Features

- Silicone valve trocar **weights less than 40 g**
- Maintenance-free **silicone valve**
- **Less damage** of scope and instrument tip due to less instrument friction
- **Excellent tactile feedback** when inserting into the abdominal cavity
- Available on request with 150 mm WL for **bariatric procedures**
- **Safe CO²** sealing



... more Features

- Trocars made of ultra light-weight reinforced carbon fiber
- With threaded or plain cannula
- Ergonomic design with LL stopcock
- Easy cleaning due to demountability
- Bayonet locking for easy valve exchange
- Color-coded sealing cap
- Diameters of 5.5 mm, 11 mm and 12.5 mm available
- + Available without luer-lock on request



Silicone Valve Trocars, Threaded Cannula



	Diameter			Working length		Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	95 mm	105 mm		
Threaded silicone valve trocar, demountable, carbon fiber	•			•		●	10-1115THC
Threaded silicone valve trocar, demountable, carbon fiber		•			•	●	10-1116THC
Threaded silicone valve trocar, demountable, carbon fiber			•		•	●	10-1117THC

Silicone Valve Trocars, Plain Cannula



	Diameter			Working length			Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	95 mm	98 mm	101 mm		
Plain silicone valve trocar, demountable, carbon fiber	•			•			●	10-1115
Plain silicone valve trocar, demountable, carbon fiber		•			•		●	10-1116
Plain silicone valve trocar, demountable, carbon fiber			•		•		●	10-1117

Multifunctional Trocars

Key Features

- Trocars made of **high-quality stainless steel**
- **Robust design** with LL stopcock
- Model with traditional **multifunctional trap door valve**
- Available on request with 150 mm WL for **bariatric procedures**



... more Features

- Available with plain and threaded cannula
- Easy cleaning due to demountability
- Color-coded sealing cap
- Diameters of 5.5 mm, 11 mm and 12.5 mm available
- Fully modular

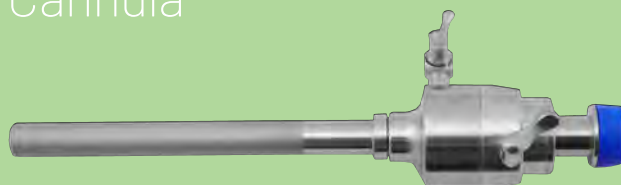


Multifunctional Trocars, Threaded Cannula



	Diameter			Working length			Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	95 mm	105 mm			
Threaded multifunct. trocar , demountable, stainless steel	•			•			●	10-1002THC
Threaded multifunct. trocar , demountable, stainless steel		•			•		●	10-1012THC
Threaded multifunct. trocar , demountable, stainless steel			•		•		●	10-1012-12,5THC

Multifunctional Trocars, Plain Cannula



	Diameter			Working length			Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	95 mm	98 mm	101 mm		
Plain multifunct. trocar , demountable, stainless steel	•			•			●	10-1002
Plain multifunct. trocar , demountable, stainless steel		•			•		●	10-1012
Plain multifunct. trocar , demountable, stainless steel			•		•		●	10-1012-12,5

Hasson Trocars

Key Features

- Model used for **half-open technique** when inserting the first trocar **under direct vision**
- Preferred use with patients who had **prior abdominal surgical procedures** and may have tissue adhering to the abdominal wall
- **Additional cones** of different types available

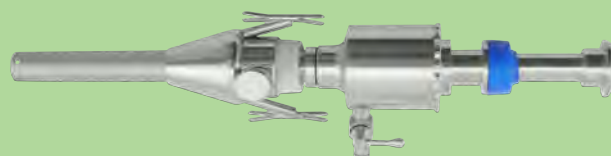


... more Features

- Made of high-quality stainless steel
- Comes with blunt obturator and integrated suture ties
- Robust design with LL stopcock
- Diameters of 5.5 mm or 11 mm available



Hasson Trocar, Threaded Cannula



	Diameter		Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm		
Hasson trocar , trap door, stainless steel, incl. obturator and cone	•		•	10-1067-05
Hasson trocar , trap door, stainless steel, incl. obturator and cone		•	•	10-1067

Spare Hasson Cone w/o Suture Ties

For Use with 10-1067

	Type	Made of	Item no.
Spare Hasson cone, Ø 11 mm	w/o suture ties	carbon fiber	10-1067-501
Spare Hasson cone, Ø 11 mm	with suture ties	carbon fiber	10-1067-502
Spare Hasson cone, Ø 11 mm	for fascia sealing	stainless steel	10-1067-505
Spare Hasson cone, Ø 11 mm	with suture ties	stainless steel	10-1067-506



S-Retractor for Hasson Technique

For Use with 10-1067



	Diameter		Item no.
	Ø 11.5 mm	Ø 15 mm	
S-Retractor for Hasson technique, pair	•		10-1098S
S-Retractor for Hasson technique, pair		•	10-1098

Miniature Trocars

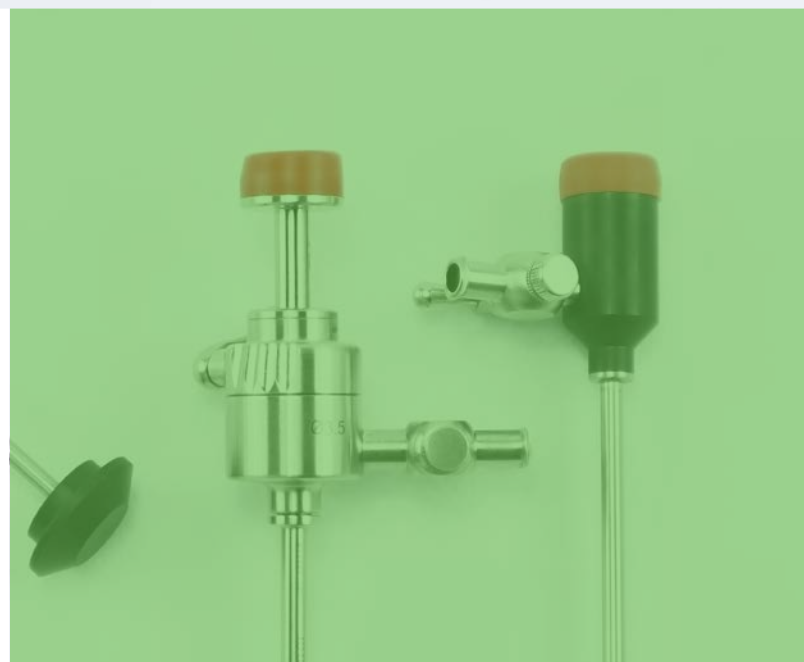
Key Features

- Silicone valve trocar **weights less than 18 g**
- Maintenance-free **silicone valve**
- **Less damage** of scope and instrument tip due to less instrument friction
- **Excellent tactile feedback** when inserting into the abdominal cavity
- **Safe** CO² sealing



... more Features

- Trocars made of ultra light-weight reinforced carbon fiber and high-quality stainless steel
- Use with accompanying miniature laparoscopy obturators and instruments
- Ergonomic design with LL stopcock
- Easy cleaning due to demountability
- Easy valve exchange
- Color-coded sealing cap
- Diameters of 3 mm and working length of 70 mm
- + Other cannula lengths and diameters on request



MINILAP

Miniature Silicone Valve Trocar, Plain Cannula

For Use with Miniature Instruments



	Color coding	Item no.
Miniature silicone valve trocar, \varnothing 3 mm, 70 mm, matching obturators: 23-3021 / 23-3021BL	●	23-3086

MINILAP

Miniature Multifunctional Trocar, Plain Cannula

For Use with Miniature Instruments



	Color coding	Item no.
Miniature multifunctional trocar, \varnothing 3.5 mm, 70 mm, matching obturator: 23-3022 / 23-3022BL	●	23-3084

Single Port / Thoracoscopy Access

Key Features

- **Decreasing trauma** and risk for herniation
- Enhanced **cosmetic benefits** and no visible scarring
- **Accelerated** recovery time
- **Obturator already included**
- **Color-coded** sealing cap



... more Features

- Use for trans-umbilical single port surgery with accompanying instruments
- Reduced postoperative pain
- Revolutionary technology in minimally-invasive laparoscopic surgery
- Made of maintenance-free silicon
- Single port trocar enables a 20 mm incision
- Diameters of 5.5 mm or 11 mm available
- Specially designed for use with Ackermann thoracoscopy / single port instruments



Flexible Single Port / Thoracoscopy Trocars

Models incl. Obturator



	Diameter		Color coding	Item no.
	Ø 5.5 mm	Ø 11 mm		
Flexible trocar with obturator, threaded, 70 mm	•		•	13-1699A
Flexible trocar with obturator, threaded, 70 mm		•	•	13-1699B

Single Port Silicone Trocar



	Item no.
Single port trocar for 20 mm umbilical incision, silicone, reusable	13-1699

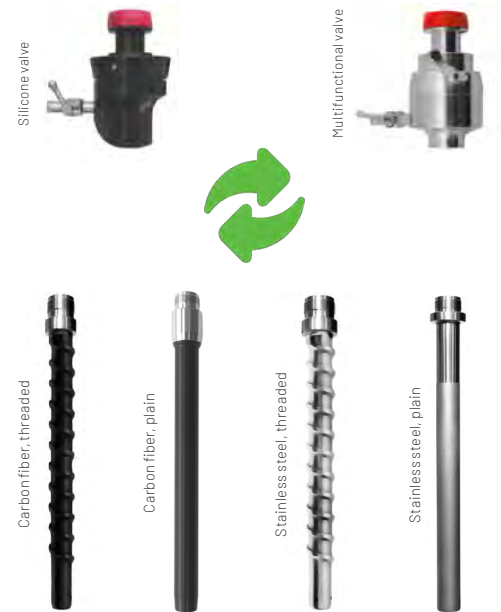
Custom Trocar Configuration

How to

- 1 Choose between a trocar diameter of 5.5 mm, 11 mm or 12.5 mm.
- 2 Choose an appropriate trocar cannula.
- 3 Add a trocar body.

Note

Each component of the trocar body is also available separately as a spare part.



Trocar Cannulas

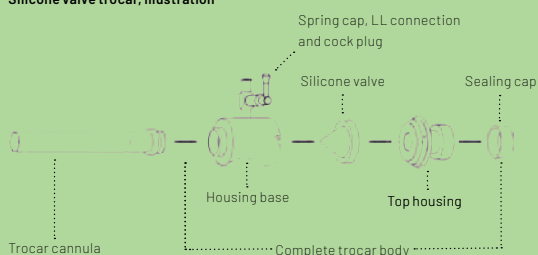
Step 2

	Diameter			Cannula type		Cannula material		Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	Threaded	Plain	Carbon fiber	Stainless steel	
Trocar cannula only	•			•		•		10-1018
Trocar cannula only	•			•			•	10-1014
Trocar cannula only	•				•	•		10-1014NT
Trocar cannula only	•				•		•	10-1002-100
Trocar cannula only		•		•		•		10-1019
Trocar cannula only		•		•			•	10-1017
Trocar cannula only		•			•	•		10-1017NT
Trocar cannula only		•			•		•	10-1012-100
Trocar cannula only			•	•		•		10-1019-12,5
Trocar cannula only			•	•			•	10-1017-12,5
Trocar cannula only			•		•	•		10-1017NT-125
Trocar cannula only			•		•		•	10-1012-12,5-100

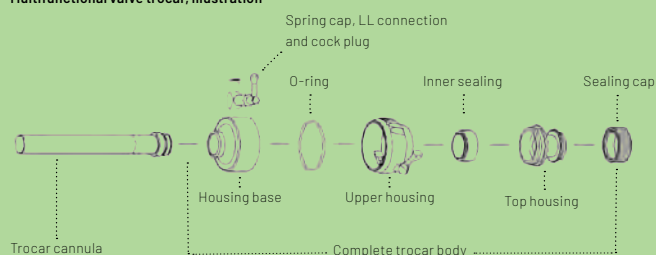
Trocar Bodies

Step 3

Silicone valve trocar, illustration



Multifunctional valve trocar, illustration



	Diameter	Body type		Color coding	Item no.
		Silicone valve	Multifunctional valve		
Trocar body, silicone valve, complete includes Trocar body 10-1115-200 and Silicone valve 10-1008-100 and Top housing 10-1115-400 and Sealing cap 10-1029	Ø 5.5 mm	•		●	10-1115BODY
Trocar body, multifunctional, complete includes Trocar body 10-1002-200 and O-ring 25x1,5 and Upper housing 10-1002-300 and Inner sealing 10-1031 and Top housing 10-1002-400 and Sealing cap 10-1029	Ø 5.5 mm		•	●	10-1002BODY
Trocar body, silicone valve, complete includes Trocar body 10-1116-200 and Silicone valve 10-1013-100 and Top housing 10-1116-400 and Sealing cap 10-1030	Ø 11 mm	•		●	10-1116BODY
Trocar body, multifunctional, complete includes Trocar body 10-1012-200 and O-ring 30x1,5 and Upper housing 10-1012-300 and Inner sealing 10-1032 and Top housing 10-1012-400 and Sealing cap 10-1030	Ø 11 mm		•	●	10-1012BODY
Trocar body, silicone valve, complete includes Trocar body 10-1117-200 and Silicone valve 10-1013-100 and Top housing 10-1117-400 and Sealing cap 10-1030-12,5	Ø 12.5 mm	•		●	10-1117BODY
Trocar body, multifunctional, complete includes Trocar body 10-1012-12,5-200 and O-ring 30x1,5 and Upper housing 10-1012-300 and Inner sealing 10-1032 and Top housing 10-1012-12,5-400 and Sealing cap 10-1030-12,5	Ø 12.5 mm		•	●	10-1012-12,5BODY

Safety Obturators

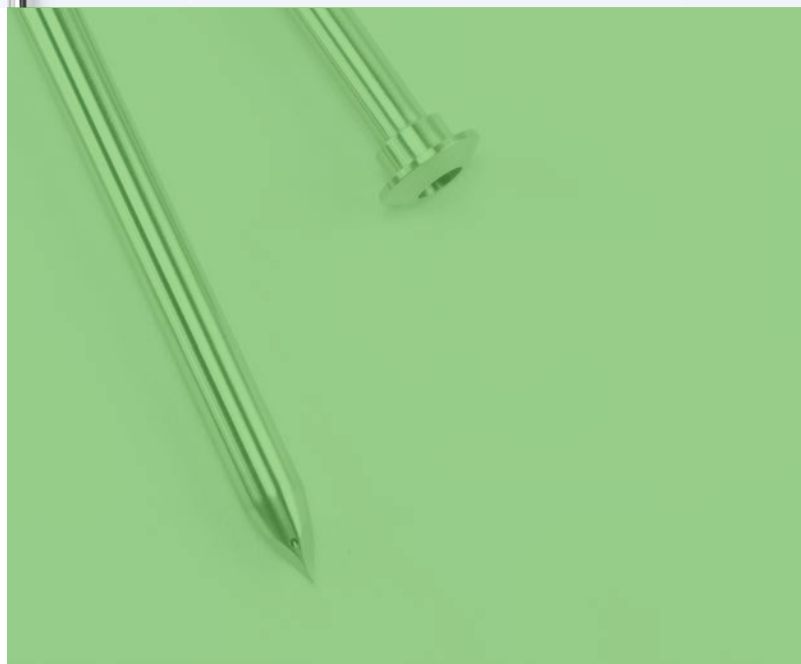
Key Features

- **Increased protection** after penetration of the trocar in the abdominal cavity due to self-locking mechanism
- **Less abdominal injuries**
- **Rounded trocar blades** in the lateral area result in a **dilating effect**

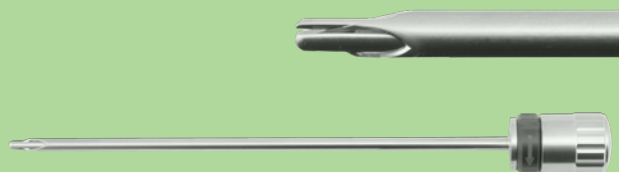


... more Features

- Obturators made of high-quality stainless steel
- If the cutting protection is activated, the trocar tip is not released until it is inserted into the abdominal cavity
- As soon as the trocar tip has passed the abdominal wall, it is again instantly secured
- Easy cleaning and reprocessing
- The triangular dilating tip obturator successfully penetrates the abdominal wall the internal gas escapes, indicating when to stop



Lockable Safety Obturators



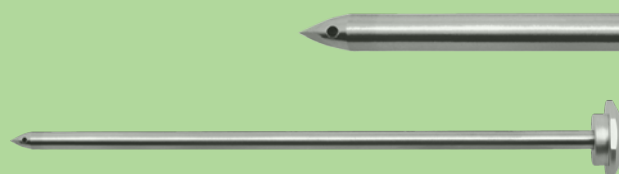
	For trocars with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Lockable safety obturator, active	•			10-1037
Lockable safety obturator, active		•		10-1047
Lockable safety obturator, active			•	10-1047-12,5

Safety Obturators



	For trocars with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Safety obturator, half-moon, oblique tip	•			10-1036
Safety obturator, half-moon, oblique tip		•		10-1046
Safety obturator, half-moon, oblique tip			•	10-1051

Triangular Dilating Tip Obturators

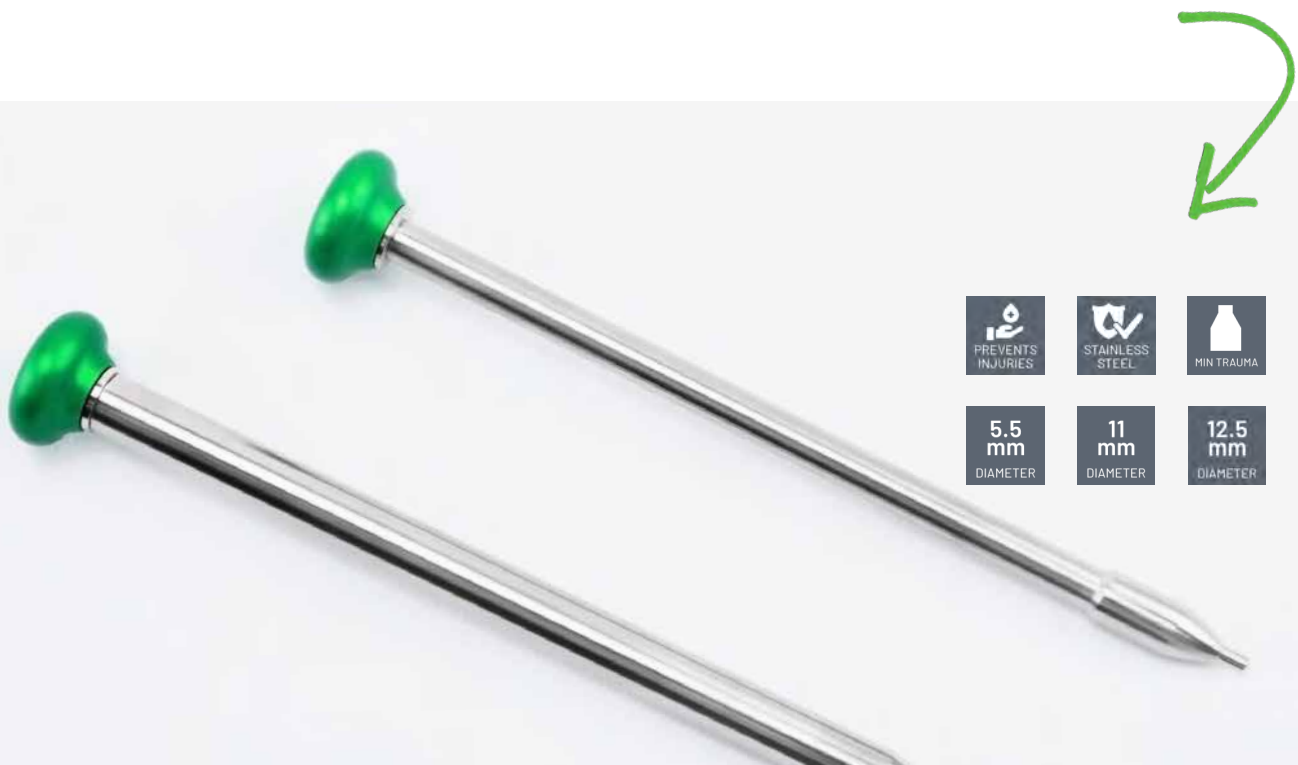


	For trocars with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Triangular dilating tip obturator with indication channel	•			10-1033
Triangular dilating tip obturator with indication channel		•		10-1048
Triangular dilating tip obturator with indication channel			•	10-1053

Minimal Trauma Obturators

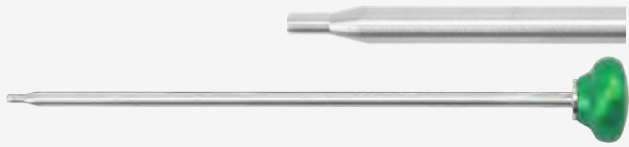
Key Features

- **Minimal trauma** after penetration of the trocar in the abdominal cavity due to patented design of the obturator tip
- **Small incision** is required due to dilating effect
- Easy to clean **high-quality stainless steel**
- Available for trocars in diameters of 5.5 mm, 11 mm and 12.5 mm



PREVENTS INJURIES	STAINLESS STEEL	MIN TRAUMA
5.5 mm DIAMETER	11 mm DIAMETER	12.5 mm DIAMETER

Minimal Trauma Obturators



	For trocars with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Minimal trauma obturator	•			10-1068
Minimal trauma obturator		•		10-1069
Minimal trauma obturator			•	10-1069-12,5



Standard Obturators

Key Features

- Standard designs with **pyramidal / triangular, conical or blunt tip**
- To be used with all Ackermann **multifunctional and silicone valve trocars**
- Other diameters and cannula lengths e.g. **150 mm for bariatric procedures on request**

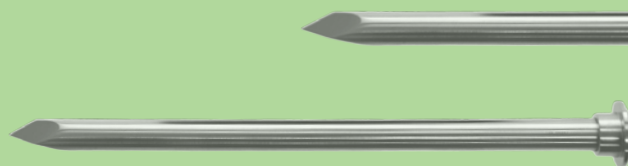


... more Features

- Obturators made of high-quality stainless steel
- For trocar diameters of 5.5 mm, 11 mm und 12.5 mm available
- Proven standard designs
- Maintenance free



Pyramidal / Triangular Tip Obturators



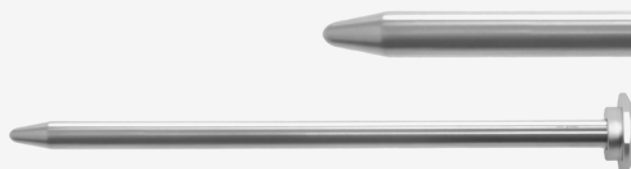
	For trocar with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Pyramidal / triangular tip obturator	•			10-1034
Pyramidal / triangular tip obturator		•		10-1044
Pyramidal / triangular tip obturator			•	10-1049

Conical Tip Obturators



	For trocar with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Conical tip obturator	•			10-1035
Conical tip obturator		•		10-1045
Conical tip obturator			•	10-1050

Blunt Tip Obturators



	For trocar with			Item no.
	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm	
Blunt tip obturator	•			10-1034BL
Blunt tip obturator		•		10-1044BL
Blunt tip obturator			•	10-1049BL

Miniature Obturators

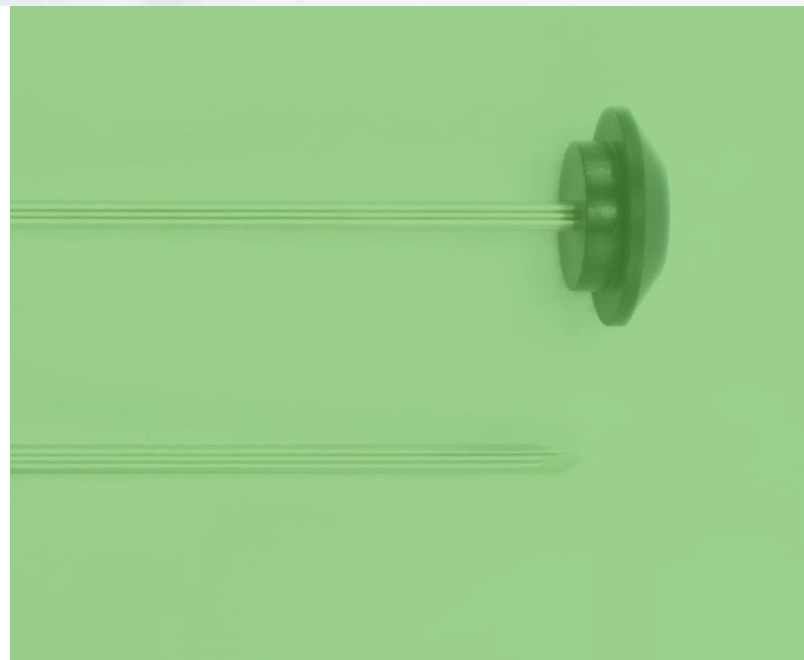
Key Features

- Obturators made of high-quality stainless steel sheath and **light-weight carbon fiber top**
- Compatible with **Ackermann Miniature Laparoscopy trocars**

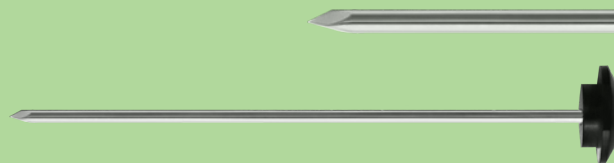


... more Features

- For trocar diameters of 3 mm
- Easy reprocessing
- Standard designs with proven pyramidal and blunt tip for easy access
- + Other designs and patterns on request

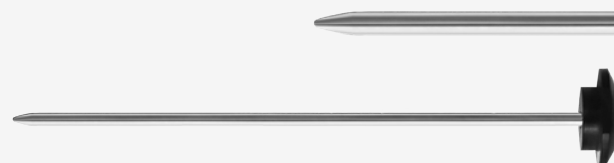


MINI LAP Miniature Triangular Obturators



	Item no.
Triangular tip obturator for Miniature Laparoscopy, Ø 3 mm, for trocar 23-3086	23-3021
Triangular tip obturator for Miniature Laparoscopy, Ø 3 mm, for trocar 23-3084	23-3022

MINI LAP Miniature Conical / Blunt Tip Obturators



	Item no.
Conical / blunt tip obturator for Miniature Laparoscopy, Ø 3 mm, for trocar 23-3086	23-3021BL
Conical / blunt tip obturator for Miniature Laparoscopy, Ø 3 mm, for trocar 23-3084	23-3022BL

Fascia Closing Instruments

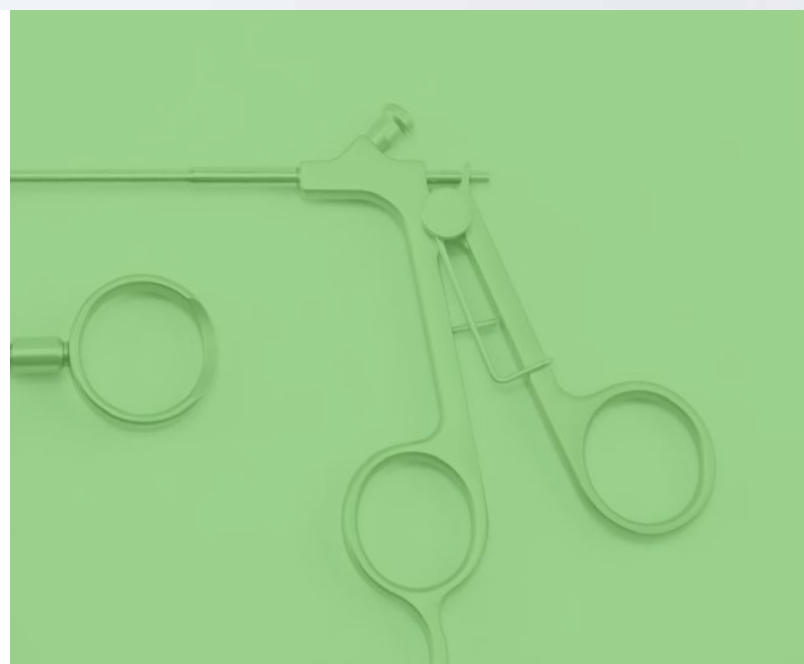
Key Features

- Simple but **smart and light-weight** design for optimal comfort and ease of use
- **Needle cone shaped tip** to facilitate insertion
- Single action serrated inner jaws for **optimal suture grip**
- Large opening of movable tip to **facilitate gripping of the suture**
- Distance holder allows for a controlled insertion and helps to **prevent injuries to tissues and organs**

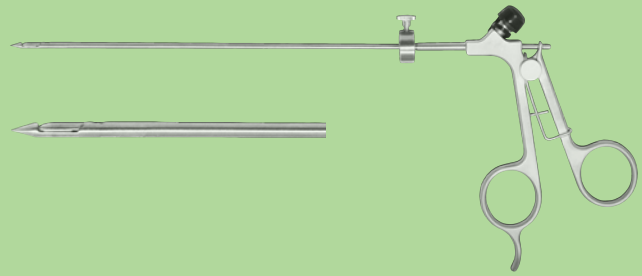


... more Features

- Medical grade high-quality stainless steel
- 100% made in Germany
- Working length of 180 mm
- Small diameter of 2.8 mm – for a minimally invasive approach
- Ergonomic spring handle suitable for left and right-handed physicians
- Flush port for easy reprocessing

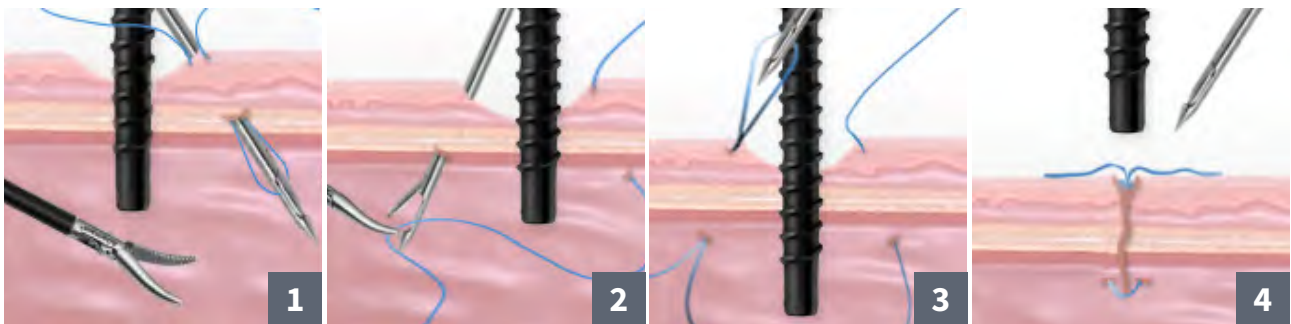


Fascia Closing Suture Passer



	Item no.
Fascia closing suture passer with stop, Ø 3 mm , 180mm	10-1114

How to use the Fascia Closing Suture Passer



Fascia Closing Cannula

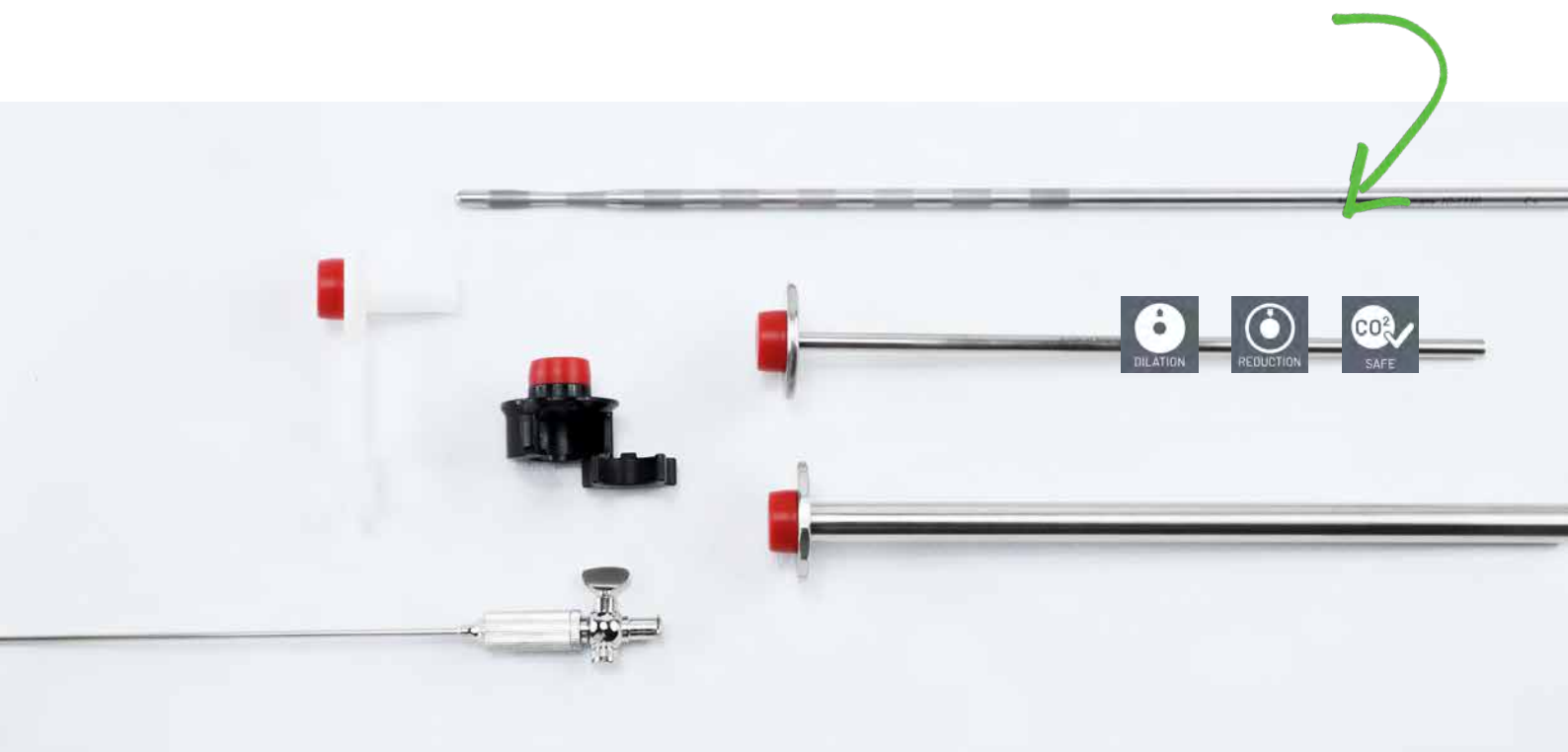


	Item no.
Fascia closing cannula, Ø 2.3 mm, 140mm	10-1113

Reducers & Dilators

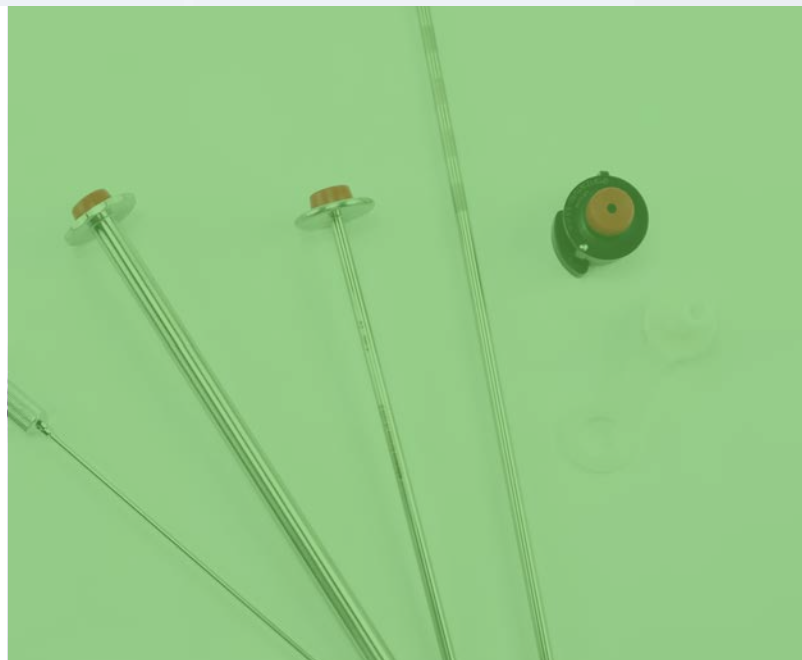
Key Features

- Ackermann reducers enable **switching between instruments with a smaller diameter** without changing the trocar
- **Reduces** the loss of gas
- Dilators allow for **switching to a larger sized trocar** whenever indicated



... more Features

- Reducing accessories are to be used depending on the trocar diameter
- Plastic reducers with a silicone latch are particularly well suited for trocars with a manual trap door
- Our full range includes various reduction sleeves, slide-on reducers, flip-on reducers as well as dilation sets



Flip-on Reducers



	Reduction diameter		Item no.
	Ø 11 mm to Ø 5.5 mm	Ø 12.5 mm to Ø 5.5 mm	
Flip-on reducer	•		10-1021-101
Flip-on reducer		•	10-1021-102

Slide-on Reducer



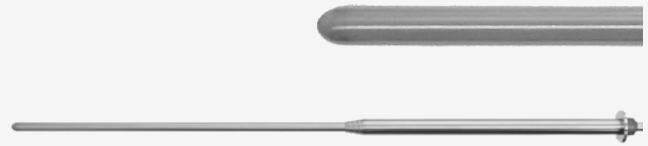
	Item no.
Slide-on reducer, Ø 11 mm / Ø 12.5 mm to Ø 5.5 mm	10-1021-201

Reduction Sleeves



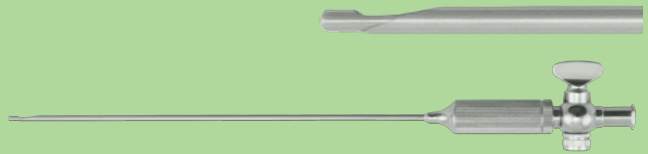
	Reduction diameter			Item no.
	Ø 5.5 mm to Ø 3 mm	Ø 10 mm to Ø 5.5 mm	Ø 11 mm to Ø 5.5 mm	
Reduction sleeve	•			10-1070-3
Reduction sleeve		•		10-1070
Reduction sleeve			•	10-1075

Dilation Sets



	Dilation diameter		Item no.
	Ø 5.5 mm to Ø 11 mm	Ø 10 mm to Ø 15 mm	
Dilation set	•		10-1085
Dilation set		•	10-1090

Verres Needles



	Length			Item no.
	100 mm	120 mm	150 mm	
Verres needle, Ø 2 mm	•			10-1100
Verres needle, Ø 2 mm		•		10-1105
Verres needle, Ø 2 mm			•	10-1111



Obturator, Dilators and Reducers

Designs at a Glance



Compatibility Matrix

For Trocars, Obturators, Dilators and Reducers

	Diameter				Color coding of trocar	Item no.
	Ø 3 mm	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm		
Silicone valve trocar , plain, miniature	•				●	23-3086
Multifunctional valve trocar , plain, miniature	•				●	23-3084
Obturator , triangular tip, for 23-3086	•				●	23-3021
Obturator , conical/blunt tip, for 23-3086	•				●	23-3021BL
Obturator , triangular tip, for 23-3084	•				●	23-3022
Obturator , conical/blunt tip, for 23-3084	•				●	23-3022BL
Silicone valve trocar , threaded		•			●	10-1115THC
Silicone valve trocar , plain		•			●	10-1115
Multifunctional valve trocar , threaded		•			●	10-1002THC
Multifunctional valve trocar , plain		•			●	10-1002
Obturator , dilating tip		•			●	10-1033
Obturator , pyramidal tip		•			●	10-1034
Obturator , blunt tip		•			●	10-1034BL

Description	Diameter				Color coding of trocar	Item no.
	Ø 3 mm	Ø 5.5 mm	Ø 11 mm	Ø 12.5 mm		
Obturator , conical tip		•			●	10-1035
Obturator , safety shield tip		•			●	10-1036
Obturator , safety shield tip, lockable		•			●	10-1037
Obturator , minimal trauma tip		•			●	10-1068
Reduction sleeve	•	•			●	10-1070-3
Dilation set		•	•		●	10-1085
Silicone valve trocar , threaded			•		●	10-1116THC
Silicone valve trocar , plain			•		●	10-1116
Multifunctional valve trocar , threaded			•		●	10-1012THC
Multifunctional valve trocar , plain			•		●	10-1012
Obturator , dilating tip			•		●	10-1048
Obturator , pyramidal tip			•		●	10-1044
Obturator , blunt tip			•		●	10-1044BL
Obturator , conical tip			•		●	10-1045
Obturator , safety shield tip			•		●	10-1046
Obturator , safety shield tip, lockable			•		●	10-1047
Obturator , minimal trauma tip			•		●	10-1069
Reduction sleeve			•		●	10-1075
Dilation set			•	•	●	10-1090
Flip-on reducer			•		●	10-1021-101
Slide-on reducer		•	•		●	10-1021-201
Silicone valve trocar , threaded				•	●	10-1117THC
Silicone valve trocar , plain				•	●	10-1117
Multifunctional valve trocar , threaded				•	●	10-1012-12,5THC
Multifunctional valve trocar , plain				•	●	10-1012-12,5
Obturator , dilating tip				•	●	10-1053
Obturator , pyramidal tip				•	●	10-1049
Obturator , blunt tip				•	●	10-1049BL
Obturator , conical tip				•	●	10-1050
Obturator , safety shield tip				•	●	10-1051
Obturator , safety shield tip, lockable				•	●	10-1047-12,5
Obturator , minimal trauma tip				•	●	10-1069-12,5
Dilation set				•	●	10-1090
Flip-on reducer				•	●	10-1021-102
Slide-on reducer				•	●	10-1021-201

Laparoscopes & Accessories

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Laparoscopes with Working Channel / **p. 60 - 61**

Fiber Light Cables, Adapters & Light Cable Testers / **p. 62 - 64**





Laparoscopes

Key Features

- Available in **4k UHD, FullHD and standard resolution**
- **Sapphire glass lense** at proximal and distal end
- Nitrogen filled optical system to **avoid fogging** from the inside
- Three-tube construction for **more stability**
- Sealing by **laser welding** with **excellent** optical transmission
- **Autoclavable**

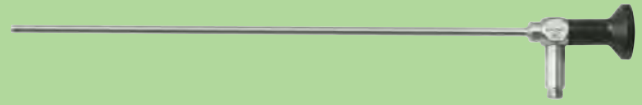


... more Features

- Made of high-quality stainless steel
- Sophisticated, anti-reflective optical system
- Powerful optical fibers
- Highly refractive lenses for optimum colour rendering even at high magnification
- Light cable adapters to Ackermann, Storz¹, Olympus¹, Wolf¹, ACMI¹
- High-quality glass cone for optimizing light input
- Standard C-Mount coupling
- Extremely precise centering of the optical and mechanical components for a brilliant and high-contrast image right up to the edge area the inside



4k UHD Laparoscopes



	Diameter		Viewing angle			Length				Item no.
	Ø 5 mm	Ø 10 mm	0°	30°	45°	300 mm	330 mm	425 mm	450 mm	
4k UHD Laparoscope	•		•			•				11-1120UHD
4k UHD Laparoscope	•			•		•				11-1125UHD
4k UHD Laparoscope	•				•	•				11-1126UHD
4k UHD Bariatric Laparoscope	•		•					•		11-1120-45UHD
4k UHD Bariatric Laparoscope	•			•				•		11-1125-45UHD
4k UHD Bariatric Laparoscope	•				•			•		11-1126-45UHD
4k UHD Laparoscope		•	•				•			11-1130UHD
4k UHD Laparoscope		•		•			•			11-1135UHD
4k UHD Laparoscope		•			•		•			11-1136UHD
4k UHD Bariatric Laparoscope		•	•						•	11-1130-45UHD

FullHD Laparoscopes



	Diameter		Viewing angle			Length				Item no.
	Ø 5 mm	Ø 10 mm	0°	30°	45°	300 mm	330 mm	425 mm	450 mm	
FullHD Laparoscope	•		•			•				11-1120HD
FullHD Laparoscope	•			•		•				11-1125HD
FullHD Laparoscope	•				•	•				11-1126HD
FullHD Bariatric Laparoscope	•		•					•		11-1120-45HD
FullHD Bariatric Laparoscope	•			•				•		11-1125-45HD
FullHD Bariatric Laparoscope	•				•			•		11-1126-45HD
FullHD Laparoscope		•	•				•			11-1130HD
FullHD Laparoscope		•		•			•			11-1135HD
FullHD Laparoscope		•			•		•			11-1136HD
FullHD Bariatric Laparoscope		•	•						•	11-1130-45HD

Standard Laparoscopes



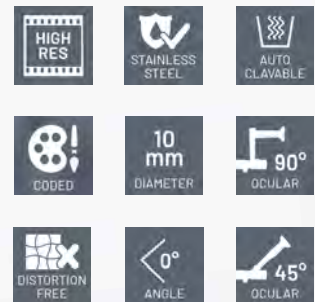
	Diameter		Viewing angle			Length				Item no.
	Ø 5 mm	Ø 10 mm	0°	30°	45°	300 mm	330 mm	425 mm	450 mm	
Standard Laparoscope	•		•			•				11-1120
Standard Laparoscope	•			•		•				11-1125
Standard Laparoscope	•				•	•				11-1126
Standard Laparoscope		•	•				•			11-1130
Standard Laparoscope		•		•			•			11-1135
Standard Laparoscope		•		•					•	11-1135-45
Standard Laparoscope		•			•		•			11-1136



Laparoscopes with Working Channel

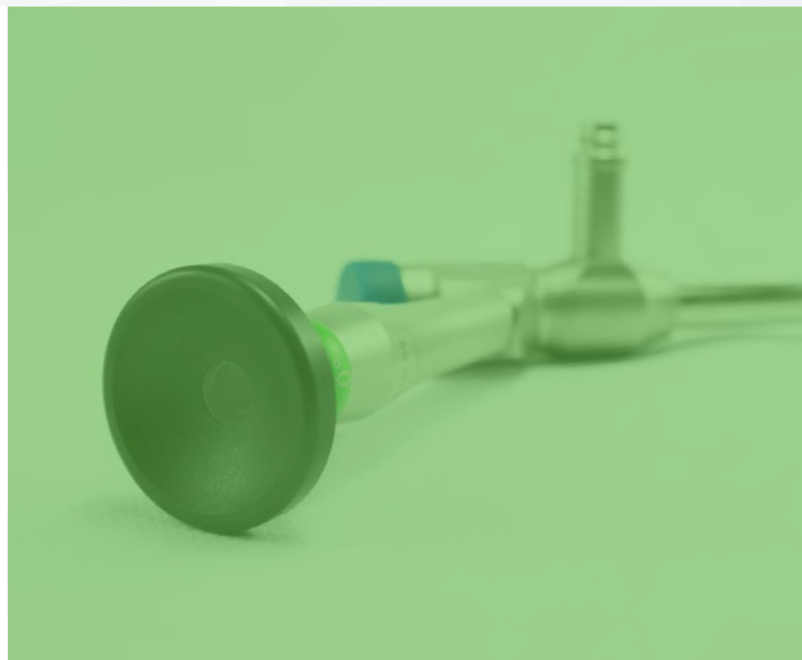
Key Features

- **Highest resolution** and depth of view
- Larger magnification
- Wide angle
- Ocular angled **90° or 45°**



... more Features

- Available in 10 mm with 0°, featuring an 6 mm instrument channel
- Polished lenses made of sapphire glass
- Autoclavable at 134°
- Brilliant and bright picture
- Distortion-free picture
- C-Mount coupling
- Includes various adapters (Ackermann, Storz¹, Olympus¹, Wolf¹, ACMI¹)



OP Laparoscopes



	Ocular		Item no.
	45° angled	90° angled	
Laparoscope with working channel, Ø 10 mm, 0°, 265 working length	•		11-1140
Laparoscope with working channel, Ø 10 mm, 0°, 265 working length		•	11-1145

Fiber Light Cables & Adapters

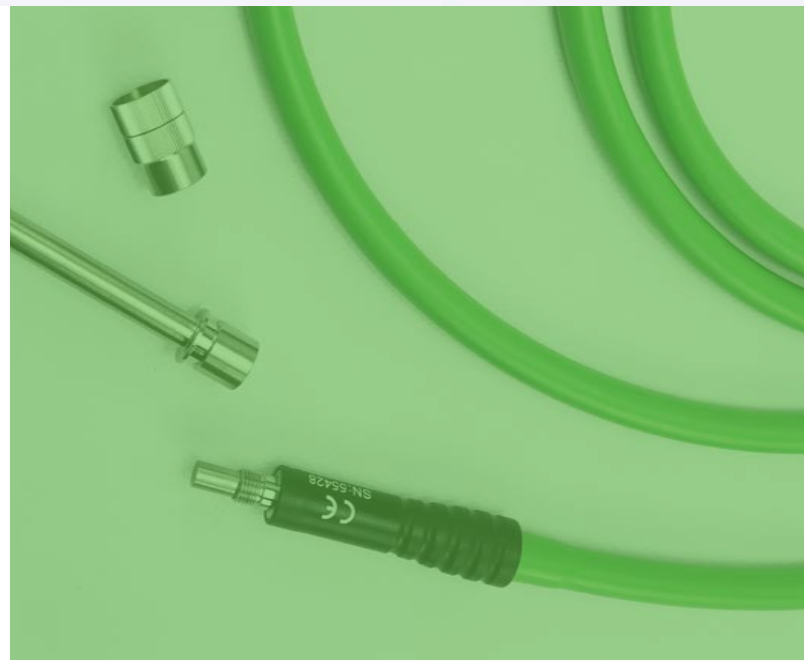
Key Features

- No gaps between the fibers ensure **30% more light** in comparison to conventionally bundled fiber light cables
- Extremely **sturdy material but highly flexible** at the same time



... more Features

- Transverse pressure resistant
- Excellent bending property
- Other colors and patterns on request



High-Performance Fiber Light Cables



	Length			Item no.
	1.8 m	2.3 m	3 m	
High-performance fiber light cable, Ø 4.8 mm	•			11-1168
High-performance fiber light cable, Ø 4.8 mm		•		11-1167
High-performance fiber light cable, Ø 4.8 mm			•	11-1161

Standard Fiber Light Cables



	Length			Item no.
	1.8 m	2.3 m	3 m	
Standard fiber light cable, Ø 3.5 mm	•			11-1150
Standard fiber light cable, Ø 3.5 mm		•		11-1151
Standard fiber light cable, Ø 3.5 mm			•	11-1152

Anti-Fogging Lube

For Use with Ackermann Scopes



	Item no.
Anti-fogging lube, UOM 30 pcs.	11-1121

Scope-side Adapters

	Ackermann / Storz ¹ / Olympus ¹	Type Wolf ¹	ACMI ¹ / Circon ¹ / Stryker ¹	Item no.
Scope-side adapter	•			11-1146-100
Scope-side adapter		•		11-1146-200
Scope-side adapter			•	11-1146-300

Lightsource-side Adapters

	Ackermann / Storz ¹	Wolf ¹	ACMI ¹ / Circon ¹ / Stryker ¹	Olympus ¹	Item no.
Lightsource-side adapter	•				11-1147-100
Lightsource-side adapter		•			11-1147-200
Lightsource-side adapter			•		11-1147-300
Lightsource-side adapter				•	11-1147-400

Light Cable Testers



	Ackermann / Storz ¹	Type Wolf ¹	Olympus ¹	Item no.
Light cable tester	•			11-1600CB
Light cable tester		•		11-1600CBWOL
Light cable tester			•	11-1600CBOLY



Monopolar & Bipolar Electrodes

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Standard Bipolar Electrodes / **p. 80 -81**





Ceramic Tip Monopolar Electrodes

Key Features

- Due to lasting and precise coagulation, **less collateral tissue damage**
- Easier cleanable surface
- Cost-effective due to **long-term stable surface**
- **Low-tempered coagulation** preserves the electrodes' insulation



... more Features

- Easy assembly and disassembly
- Fully insulated
- Wear-resistant ceramic tip
- More resistant to detergents and disinfectants in comparison to standard electrodes
- Available in Ø 5 mm with 330 mm or 450 mm working length

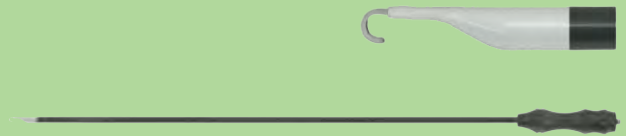


L-Hook Electrodes, Ceramic Tip



	Length		Item no.
	330 mm	450 mm	
L-Hook electrode with ceramic tip, monopolar, Ø 5 mm	•		11-1175C
L-Hook electrode with ceramic tip, monopolar, Ø 5 mm		•	11-1175C-45

J-Hook Electrodes, Ceramic Tip



	Length		Item no.
	330 mm	450 mm	
J-Hook electrode with ceramic tip, monopolar, Ø 5 mm	•		11-1185C
J-Hook electrode with ceramic tip, monopolar, Ø 5 mm		•	11-1185C-45

Spatula Electrodes, Ceramic Tip












	Length		Item no.
	330 mm	450 mm	
Spatula electrode with ceramic tip, monopolar, Ø 5 mm	•		11-1170C
Spatula electrode with ceramic tip, monopolar, Ø 5 mm		•	11-1170C-45

Standard Monopolar Electrodes

Key Features

- **Various** tip pattern options
- **Extended and durable** insulation
- Available in Ø 5 mm with **330 mm or 450 mm working length** and in Ø 3 mm for **pediatric use**



 8 PATTERNS	 LIGHT WEIGHT	 VARIOUS LENGTHS
 MINI-LAP	 LAP	 REUSABLE
 3 mm DIAMETER	 5 mm DIAMETER	 CLEANABLE

Spatula Electrodes



	Length		Item no.
	330 mm	450 mm	
Spatula electrode, monopolar, Ø 5 mm	•		11-1170
Spatula electrode, monopolar, Ø 5 mm		•	11-1170-45

L-Hook Electrodes



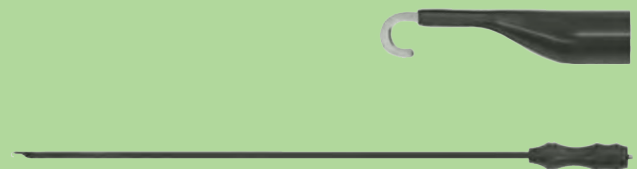
	Length		Item no.
	330 mm	450 mm	
L-Hook electrode, monopolar, Ø 5 mm	•		11-1175
L-Hook electrode, monopolar, Ø 5 mm		•	11-1175-45

Knife Electrodes



	Length		Item no.
	330 mm	450 mm	
Knife electrode, monopolar, Ø 5 mm	•		11-1180
Knife electrode, monopolar, Ø 5 mm		•	11-1180-45

J-Hook Electrodes



	Length		Item no.
	330 mm	450 mm	
J-Hook electrode, monopolar, Ø 5 mm	•		11-1185
J-Hook electrode, monopolar, Ø 5 mm		•	11-1185-45

Sickle Electrodes



	Length		Item no.
	330 mm	450 mm	
Sickle electrode, monopolar, Ø 5 mm	•		11-1188
Sickle electrode, monopolar, Ø 5 mm		•	11-1188-45

Needle Electrodes



	Length		Item no.
	330 mm	450 mm	
Needle electrode, monopolar, Ø 5 mm	•		11-1200
Needle electrode, monopolar, Ø 5 mm		•	11-1200-45

Cone Electrodes



	Length		Item no.
	330 mm	450 mm	
Cone electrode, monopolar, Ø 5 mm	•		11-1205
Cone electrode, monopolar, Ø 5 mm		•	11-1205-45

Button Electrodes



	Length	Item no.
	330 mm 450 mm	
Button electrode, monopolar, Ø 5 mm	•	11-1210
Button electrode, monopolar, Ø 5 mm	•	11-1210-45

MINI LAP Miniature Spatula Electrodes



	Length	Item no.
	200 mm 330 mm	
Miniature spatula electrode, monopolar, Ø 3 mm	•	23-3065-20
Miniature spatula electrode, monopolar, Ø 3 mm	•	23-3065

MINI LAP Miniature Button Electrodes



	Length	Item no.
	200 mm 330 mm	
Miniature button electrode, monopolar, Ø 3 mm	•	23-3066-20
Miniature button electrode, monopolar, Ø 3 mm	•	23-3066

MINI LAP

Miniature L-Hook Electrodes



	Length		Item no.
	200 mm	330 mm	
Miniature L-Hook electrode, monopolar, Ø 3 mm	•		23-3070-20
Miniature L-Hook electrode, monopolar, Ø 3 mm		•	23-3070

MINI LAP

Miniature J-Hook Electrodes



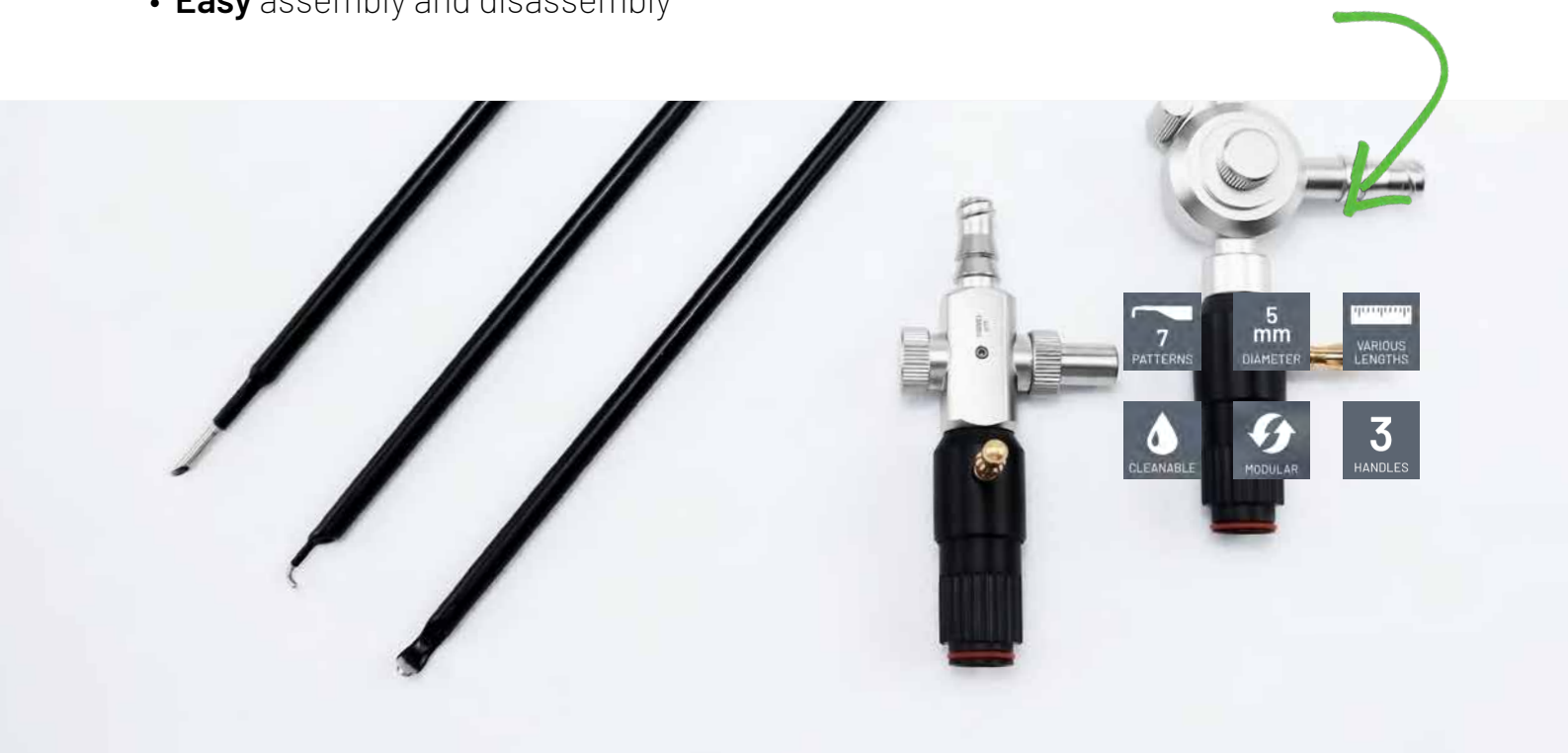
	Length		Item no.
	200 mm	330 mm	
Miniature J-Hook electrode, monopolar, Ø 3 mm	•		23-3075-20
Miniature J-Hook electrode, monopolar, Ø 3 mm		•	23-3075



Suction/Irrigation Monopolar Electrodes

Key Features

- Various electrode patterns with **suction/irrigation channel**
- **3 different valve handle options** enable higher flexibility during each surgical procedure
- Available in Ø 5 mm with **330 mm or 450 mm working length**
- Fully **insulated**
- **Easy** assembly and disassembly



Spatula Electrodes, Adaptable

For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	330 mm	450 mm	
Spatula electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1178
Spatula electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1178-45

L-Hook Electrodes, Adaptable

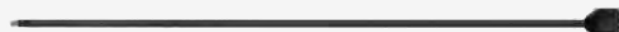
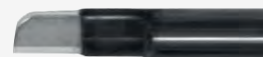
For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	330 mm	450 mm	
L-Hook Electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1179
L-Hook Electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1179-45

Knife Electrodes, Adaptable

For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	330 mm	450 mm	
Knife electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1181
Knife electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1181-45

J-Hook Electrodes, Adaptable

For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	330 mm	450 mm	
J-Hook electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1182
J-Hook electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1182-45

Cone Electrodes, Adaptable

For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	360 mm	450 mm	
Cone electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1186
Cone electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1186-45

Needle Electrodes, Adaptable

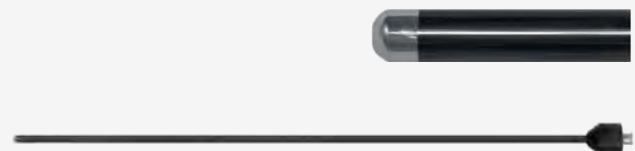
For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	360 mm	450 mm	
Needle electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1187
Needle electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1187-45

Button Electrodes, Adaptable

For Use with 11-1171 / 11-1173 / 11-1174



	Length		Item no.
	360 mm	450 mm	
Button electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm	•		11-1184
Button electrode with suction-irrigation channel, adaptable, monopolar, Ø 5 mm		•	11-1184-45

Trumpet Valve Handle for Adaptable Electrodes



	Item no.
Trumpet valve handle for adaptable suction-irrigation electrodes	11-1171

2-Way Handle for Adaptable Electrodes



	Item no.
Two-way handle for adaptable suction-irrigation electrodes	11-1173

Pistol Handle for Adaptable Electrodes



	Item no.
Pistol handle for adaptable suction-irrigation electrodes	11-1174

Standard Bipolar Electrodes

Key Features

- Easy to clean surface
- **Optimized pole arrangement** allows for safe minimally-invasive coagulation and dissection of tissue
- The insulating coating between the electrodes ensures a **constant distance** and thus a **balanced coagulation result**



Spatula Electrode, Bipolar



Spatula electrode, bipolar, Ø 5 mm, 340 mm

Item no.

11-1190

L-Hook Electrode, Bipolar



	Item no.
L-Hook electrode, bipolar, Ø 5 mm, 340 mm	11-1191

Ball Electrode, Bipolar



	Item no.
Ball electrode, bipolar, Ø 5 mm, 340 mm	11-1192

J-Hook Electrode, Bipolar



	Item no.
J-Hook electrode, bipolar, Ø 5 mm, 340 mm	11-1193

Suction/Irrigation Accessories

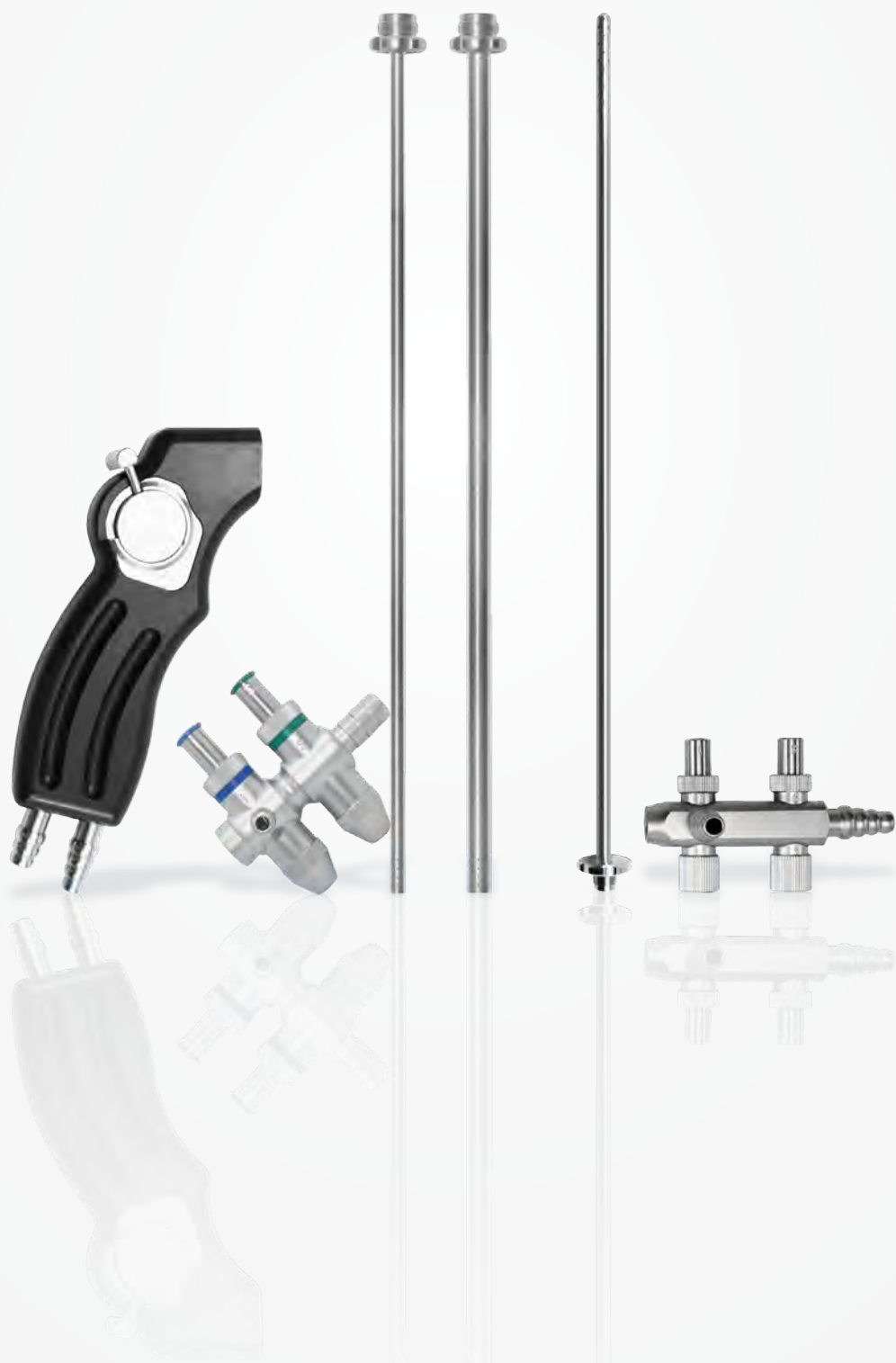
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High-Flow Suction/Irrigation

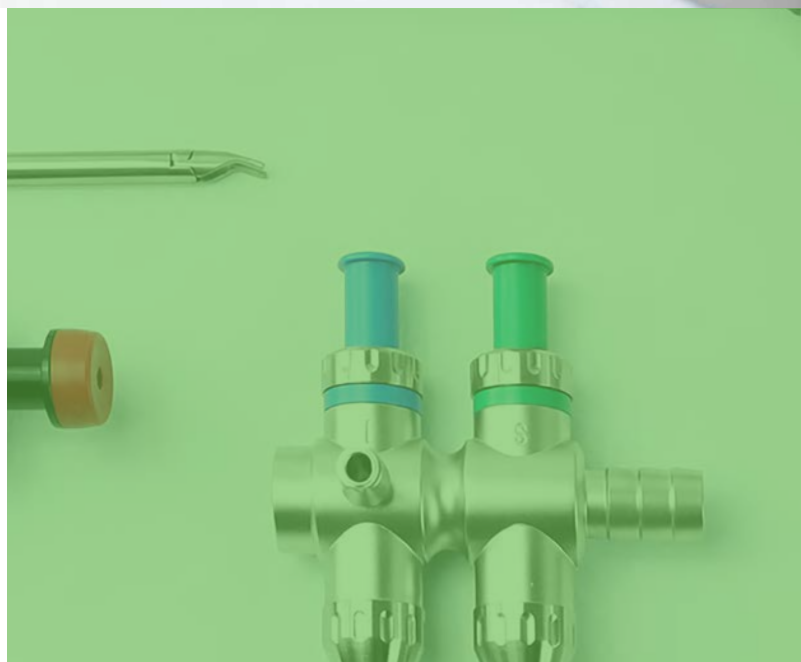
Key Features

- **High-flow**, ideal for large cavity procedures
- **Color-coding**: blue - irrigation / green - suction
- **One-handed control** by trumpet valve system



... more Features

- Easy assembly and disassembly
- Maximizing of flow rate due to drillings on the distal end of tube, also preventing vacuum
- Available with Ø 5 mm and Ø 10 mm suction tubing individually or as complete set
- Large tube connection
- Handle with tube-luer-lock



High-flow Tubing Set



			Item no.
Trumpet valve handle incl. Ø 5 mm and Ø 10 mm high-flow tubes			11-1235
includes	High-flow tube with drillings, Ø 5 mm	11-1235-100	
and	High-flow tube with drillings, Ø 10 mm	11-1235-101	
and	Trumpet valve handle	11-1235-102	

Trumpet Valve Handle

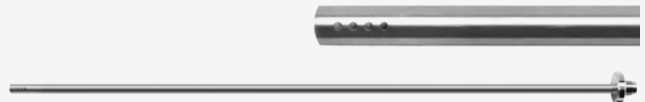
For Use with 11-1235-101 / 11-1235-102



	Item no.
Trumpet valve handle	11-1235-102

High-flow Tubes

For Use with 11-1235-102



	Diameter		Item no.
	Ø 5 mm	Ø 10 mm	
High-flow tube with drillings	•		11-1235-100
High-flow tube with drillings		•	11-1235-101

Pistol Handle Suction/Irrigation

Key Features

- **2-in-1 ergonomic handle:** suction-irrigation-function or coagulation
- Ease of use due to **1-finger action**
- **Dynamic flow and pressure** control



MODULAR



5 mm
DIAMETER



ERGONOMIC



STAINLESS
STEEL



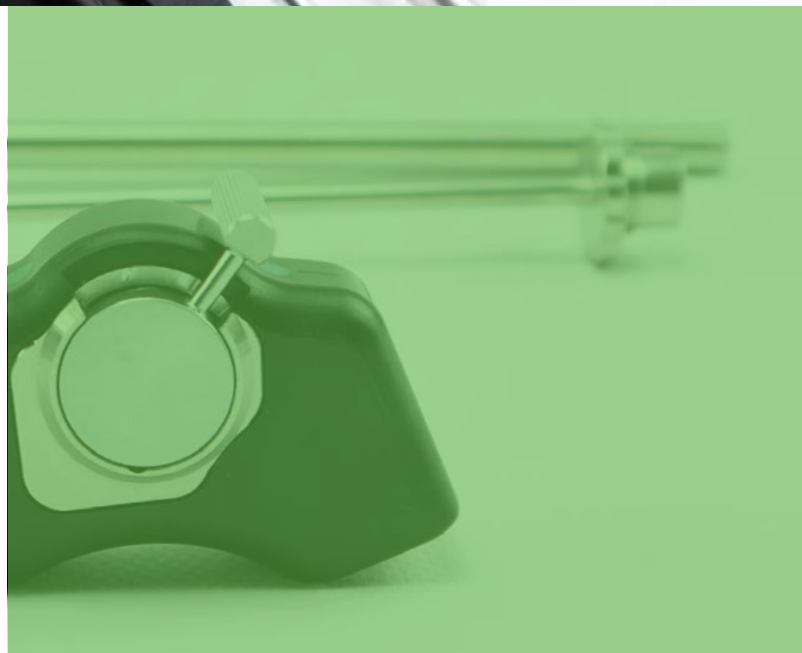
10 mm
DIAMETER



ADAPTER

... more Features

- Enlarged suction channel
- Comfortable operation due to swivel movement of sliding valve
- Fully detachable



Pistol Handle

For Use with 11-1277 / 11-1278



	Item no.
Pistol handle	11-1276

Standard Tube

For Use with 11-1276



	Diameter			Item no.
	Ø 3 mm	Ø 5 mm	Ø 10 mm	
Standard tube with drillings MINI LAP	•			11-1278-3
Standard tube with drillings		•		11-1278
Standard tube with drillings			•	11-1277

Electrode Adapter

For Use with 11-1276



	Item no.
Electrode adapter to use 11-1276 with adaptable electrodes	11-1279

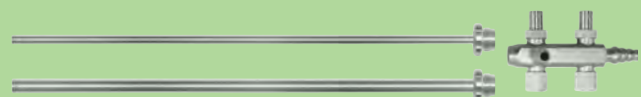
Interchangeable Suction/Irrigation

Key Features

- Available as **pre-configured set**
- Flexibly expandable due to **wide range** of different tubes patterns
- **Easy** assembly and disassembly
- Available in **Ø 3 mm, Ø 5 mm and Ø 10 mm** suction tubing
- **Bariatric** lengths on request

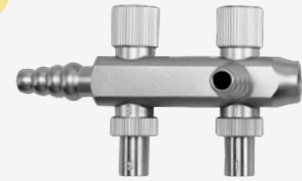


Interchangeable Tubing Set



			Item no.
Modular suction-irrigation handle incl. Ø 5 mm and Ø 10 mm tubes			11-1236COM
includes	Standard tube, Ø 5 mm, 330 mm	11-1237	
and	Standard tube, Ø 10 mm, 330 mm	11-1238	
and	Modular handle for 3/5/10 mm suction-irrigation tubes	11-1236	

Modular Handle for Suction-Irrigation-Tubes



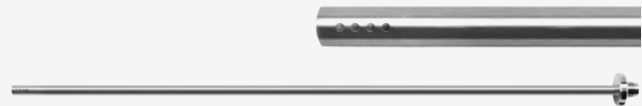
Item no.

Modular handle for 3 mm / 5 mm / 10 mm suction-irrigation tubes

11-1236

Standard Tube

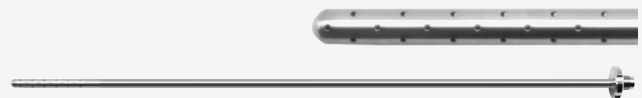
For Use with 11-1236



	Diameter			Drillings				Item no.
	Ø 3 mm	Ø 5 mm	Ø 10 mm	4	8	16	32	
Standard tube, 330 mm MINI LAP	•				•			11-1237-700
Standard tube, 330 mm		•		•				11-1237-800
Standard tube, 330 mm		•				•		11-1237
Standard tube, 330 mm			•				•	11-1238

Roundhole Bee Hive Tube

For Use with 11-1236



	Type	Length		Item no.
		330 mm	450 mm	
Roundhole bee hive tube with offset holes, Ø 5 mm, 48 drillings	non-rounded	•		11-1237-100
Roundhole bee hive tube with offset holes, Ø 5 mm, 48 drillings	non-rounded		•	11-1237-100-45
Roundhole bee hive tube with offset holes, Ø 5 mm, 48 drillings	rounded	•		11-1237-200
Roundhole bee hive tube with offset holes, Ø 5 mm, 48 drillings	strongly rounded	•		11-1237-300

Blunt Tube

For Use with 11-1236



Blunt tube with tapered tip, Ø 5 mm, 12 drillings, 330 mm

Item no.

11-1237-600

Suction Needle

For Use with 11-1236



Suction needle, Ø 5 mm

Item no.

11-1237-400

Aqua Dissecting Suction Tube

For Use with 11-1236



Aqua dissecting suction tube, Ø 5 mm, 330 mm

Item no.

11-1237-500



Reusable Instrument Lines

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