Miniature Laparoscopy

Access, Instrumentation & Sets

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 subdiaries located in

Greece, **India**, **USA & Mexico**

Serving over

100

Countries

More than

80

Employees

+

3

Manufacturing Sites

400

Strategic Partners

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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]	# 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) 1 x XPress Lock™ handle w/o ratchet	# 23-3000XPI-20 # 13-1367XP
2 x Miniature grasping forceps, Ø 2.9 mm, 200 mm (insert) 2 x XPress Lock™ handle w/o ratchet	# 23-3015XPI-20 # 13-1367XP
1 x Miniature bowel grasping forceps, Ø 2.9 mm, 200 mm (insert) 1 x XPress Lock™ handle with french ratchet	# 23-3082XPI-20 # 13-1369XP
1 x Miniature hook scissors, Ø 2.9 mm, 200 mm (insert) 1 x XPress Lock™ handle w/o ratchet	# 23-3001XPI-20 # 13-1367XP
1 x Miniature Kelly grasping forceps, Ø 2.9 mm, 200 mm (insert) 1 x XPress Lock™ handle w/o ratchet	# 23-3020XPI-20 # 13-1367XP

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

Miniature Lap Set

Ordering Information and Recommendations

1 x 4k UHD Laparoscope, 30°, Ø 10 mm, 330 mm	# 11-1135UHD	
OPTIONAL *1 x 4k UHD Laparoscope, 30°, Ø 5 mm, 330 mm*	*# 11-1125UHD*	
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]	# 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	
1 x Plain silicone valve trocar, demount., carbon fiber, Ø 11 mm	# 10-1116	
1 x Pyramidal / triangular tip obturator, Ø 11 mm	# 10-1044	
3 x Miniature silicone valve trocar, Ø 3 mm, 70 mm	# 23-3086	
3 x Miniature triangular tip obturator for 23-3086, Ø 3 mm	# 23-3021	
1 x Verres needle, Ø 2 mm, 120 mm	# 10-1105	
1 x Miniature Metzenbaum scissors, Ø 2.9 mm, 360 mm (insert) 1 x XPress Lock™ handle w/o ratchet	# 23-3000XPI # 13-1367XP	
1 x Miniature grasping forceps, Ø 2.9 mm, 360 mm (insert) 1 x XPress Lock™ handle w/o ratchet	# 23-3015XPI # 13-1367XP	
1 x Miniature bowel grasping forceps, Ø 2.9 mm, 360 mm (insert) 1 x XPress Lock™ handle with french ratchet	# 23-3082XPI # 13-1369XP	

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

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 abdiminal cavity
- **Safe** CO^2 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

Miniature Silicone Valve Trocar, Plain Cannula

For Use with Miniature Instruments

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

Miniature Multifunctional Trocar, Plain Cannula

For Use with Miniature Instruments

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

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

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**

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**

Miniature Monopolar Electrodes

Key Features

- **Various** tip patterns options and two working lengths
- **Extended and durable** insulation
- **Ø 3 mm** for pediatric use

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

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**

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**

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**

Miniature Suction/Irrigation Systems

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
- **Easy** assembly and disassembly
- **Ø 3 mm** suction tubing for pediatric use

... more Features

- Enlarged suction channel
- Comfortable operation due to swifel movement of sliding valve on pistol handle
- Tube length of 330 mm
- Fully detachable

Pistol Handle

For Use with 11-1278-3

	Item no.
Pistol handle	**11-1276**

Standard Tube

For Use with 11-1276

	Item no.
Standard tube with drillings, Ø 3 mm, 330 mm	**11-1278-3**

Modular Handle

For Use with 11-1237-700

	Item no.
Modular handle for Ø 3 mm / Ø 5 mm / Ø 10 mm suction-irrigation tubes	**11-1236**

Standard Tube

For Use with 11-1236

	Item no.
Standard tube, 8 drillings, Ø 3 mm, 330 mm	**11-1237-700**

Miniature XPress Lock™ Line

Key Features

- Reliable **quick-lock mechanism** for one-click assembly and disassembly
- Two-piece instrument line for **increased stability and durability** fully compatible with all **XPress Lock™ handles**
- Industry-leading **small diameter of only 2.9 mm** for reduced trauma
- **Complete array** of instrument patterns and jaw designs, including **Mini Ceramix Cut™** coated scissors

... more Features

- Integrated flush port for fast and convenient reprocessing
- Available in working lengths of 200 and 360 mm
- Fully autoclavable
- 360° rotatable with audible and tactile feedback

XPress Lock™ Handle with Universal Ratchet

	Item no.
XPress Lock™ handle with universal ratchet, black	**13-1368XP**

XPress Lock™ Handle w/o Ratchet

	Item no.
XPress Lock™ handle without ratchet, black	**13-1367XP**

XPress Lock™ Handle with French Ratchet

	Item no.
XPress Lock™ handle with french ratchet, black	**13-1369XP**

Miniature Ceramix Cut™ Scissors

Key Features

- **Wear-resistant**
- **Outstanding cutting** ability
- Reduced abrasion
- Minimal optical reflection
- **Substantially harder** than regular stainless steel
- For use with **XPress Lock™ handles**

... more Features

- Cost-effective due to long-term stable surface
- Non-corossive
- Temperature- and scratch-resistant
- Smooth and dense surface - easily cleanable
- More resistant to detergents and disinfectants
- Improved sliding characteristics, therefore smoother movement of the scissor blades

Miniature Metzenbaum Scissors, Ceramix Cut™

Straight, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3005CI-20**
•		•	**23-3005CI**

Recommended use with **handle w/o ratchet**

Miniature Metzenbaum Scissors, Ceramix Cut™

Serrated, curved, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3010CI-20**
•		•	**23-3010CI**

Recommended use with **handle w/o ratchet**

Miniature Metzenbaum Scissors, Ceramix Cut™

Curved, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3000CI-20**
•		•	**23-3000CI**

Recommended use with **handle w/o ratchet**

Miniature Metzenbaum Scissors

Straight, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3005XPI-20**
•		•	**23-3005XPI**

Recommended use with **handle w/o ratchet**

Miniature Metzenbaum Scissors

Serrated, curved, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3010XPI-20**
•		•	**23-3010XPI**

Recommended use with **handle w/o ratchet**

Miniature Scissors

Pointed, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3007XPI-20**
•		•	**23-3007XPI**

Recommended use with **handle w/o ratchet**

Miniature Metzenbaum Scissors

Curved, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3000XPI-20**
•		•	**23-3000XPI**

Recommended use with **handle w/o ratchet**

Miniature Hook Scissors

Single-action, **Ø 2.9 mm**

Line		Length		Item no.
XPress Lock™	System CS™	200 mm	360 mm	
•		•		**23-3001XPI-20**
•			•	**23-3001XPI**

Recommended use with **handle w/o ratchet**

Miniature Bowel Grasping Forceps

Fenestrated, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3082XPI-20**
•		•	**23-3082XPI**

Recommended use with **handle with ratchet**

Miniature Grasping Forceps

Fenestrated, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3089XPI-20
•		•	23-3089XPI

Recommended use with **handle with ratchet**

Miniature Pylorus Grasping Forceps

Fenestrated, in- and outside serrated, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3092XPI-20
•		•	23-3092XPI

Recommended use with **handle with ratchet**

Miniature Johan Grasping Forceps

Large fenestration, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3088XPI-20
•		•	23-3088XPI

Recommended use with **handle with ratchet**

Miniature Croce Olmi Grasping Forceps

Single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3017XPI-20
•		•	23-3017XPI

Recommended use with **handle with ratchet**

Miniature Fundus Grasping Forceps

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3042XPI-20
•		•	23-3042XPI

Recommended use with **handle with ratchet**

Miniature Grasping Forceps

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3015XPI-20
•		•	23-3015XPI

Recommended use with **handle with ratchet**

Miniature Atraumatic Dissector

Slightly conical, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3030XPI-20
•		•	23-3030XPI

Recommended use with **handle w/o ratchet**

Miniature Dissector

Conical, cross-serrated, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3032XPI-20
•		•	23-3032XPI

Recommended use with **handle w/o ratchet**

Miniature Duckbill Grasping Forceps

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3045XPI-20
•		•	23-3045XPI

Recommended use with **handle w/o ratchet**

Miniature Rat Teeth Grasping Forceps

1x2 jaws, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3038XPI-20
•		•	23-3038XPI

Recommended use with **handle w/o ratchet**

Miniature Rat Teeth Grasping Forceps

1x2 jaws, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3039XPI-20
•		•	23-3039XPI

Recommended use with **handle w/o ratchet**

Miniature Maryland Grasping Forceps

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3025XPI-20
•		•	23-3025XPI

Recommended use with **handle w/o ratchet**

Miniature Kelly Grasping Forceps

Double-action, long, 10 mm jaw length, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3019XPI-20
•		•	23-3019XPI

Recommended use with **handle w/o ratchet**

Miniature Kelly Grasping Forceps

Double-action, short, 8 mm jaw length, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3020XPI-20
•		•	23-3020XPI

Recommended use with **handle w/o ratchet**

Miniature Cobra Grasping Forceps

Heaviliy serrated, double, action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	330 mm	450 mm	
•	•		23-3040XPI-20
•		•	23-3040XPI

Recommended use with **handle w/o ratchet**

Miniature Allis Grasping Forceps

Single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3041XPI-20
•		•	23-3041XPI

Recommended use with **handle w/o ratchet**

Miniature Grasping Forceps

Heavily serrated, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3035XPI-20
•		•	23-3035XPI

Recommended use with **handle w/o ratchet**

Miniature Alligator Grasping Forceps

Serrated, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3055XPI-20
•		•	23-3055XPI

Recommended use with **handle w/o ratchet**

Miniature Alligator Grasping Forceps

Serrated, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3056XPI-20**
•		•	**23-3056XPI**

Recommended use with **handle w/o ratchet**

Miniature De Bakey Grasping Forceps

Double-action, single-serration, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3094XPI-20**
•		•	**23-3094XPI**

Recommended use with **handle w/o ratchet**

Miniature Babcock Grasping Forceps

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3093XPI-20**
•		•	**23-3093XPI**

Recommended use with **handle w/o ratchet**

Miniature Mixter Clamp

90° angled, double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3023XPI-20**
•		•	**23-3023XPI**

Recommended use with **handle w/o ratchet**

Miniature Claw Forceps

2x3 traumatic jaws, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3037XPI-20**
•		•	**23-3037XPI**

Recommended use with **handle w/o ratchet**

Miniature Punch

Single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3002XPI-20**
•		•	**23-3002XPI**

Recommended use with **handle w/o ratchet**

Miniature Needleholder

TC inserts, straight, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3026XPI-20
•		•	23-3026XPI

Recommended use with **handle w/o ratchet**

Miniature Needleholder

Right-angled, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3027XPI-20
•		•	23-3027XPI

Recommended use with **handle w/o ratchet**

Miniature Needleholder

Left-angled, single-action, **Ø 3 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		23-3028XPI-20
•		•	23-3028XPI

Recommended use with **handle w/o ratchet**

Miniature Biopsy Spoon

Double-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3050XPI-20**
•		•	**23-3050XPI**

Recommended use with **handle w/o ratchet**

Miniature Biopsy Spoon

Single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3051XPI-20**
•		•	**23-3051XPI**

Recommended use with **handle w/o ratchet**

Miniature Blakesley Dissecting & Biopsy Forceps

Fenestrated, single-action, **Ø 2.9 mm**

Line	Length		Item no.
XPress Lock™	200 mm	360 mm	
•	•		**23-3053XPI-20**
•		•	**23-3053XPI**

Recommended use with **handle w/o ratchet**

Miniature Future Lap™ Hybrids

Key Features

- Combination of a sterile, **single-use sheath/tip** assembly and a fully **reusable handle** in Ø 2.9 mm for Miniature Laparoscopy procedures
- Fully compatible with the System CS™ range of handles further **increasing versatility** and ability to customize
- **Risks can be radically reduced** by exchanging every component with immediate patient contact

... more Features

- Length of 330
- Quick, easy and safe assembly due to ball-socket-locking between handle and sheath
- No cleaning and sterilization of the sheath necessary and degradation or even defectiveness of the insulation is almost impossible
- Future Lap™ provides the possibility of combining quality and efficiency, without having to compromise

STERILE

Miniature Metzenbaum Scissors, Future Lap™ Insert

For Use with System CS™ Handles

	Item no.
Miniature single-use **Metzenbaum scissors**, Future Lap™, curved, Ø 2.9 mm, 330 mm, UOM 10 pcs.	**23-3000DDI**

STERILE

Miniature Maryland Grasper, Future Lap™ Insert

For Use with System CS™ Handles

	Item no.
Miniature single-use **Maryland grasping forceps**, Future Lap™, Ø 2.9 mm, 330 mm, UOM 10 pcs.	**23-3025DDI**

STERILE

Mini Fenestrated Grasping Forceps, Future Lap™ Insert

For Use with System CS™ Handles

	Item no.
Mini single-use **fenestr. grasp. forceps**, Future Lap™, flat jaws, d.-act., Ø 2.9 mm, 330 mm, UOM 10 pcs.	**23-3082DDI**

System CS™ Handles

For Use with Future Lap™ Inserts / System CS™ Inserts and Sheaths

	Length		Item no.
	w/o ratchet	with universal ratchet	
System CS™ handle, blue	•		13-1367CS
System CS™ handle, blue		•	13-1384CS

Miniature Premium Bipolar Instruments

Key Features

- **Quick exchange of electrode inserts** for different applications within only a few seconds, available in Ø 3 mm for Miniature Laparoscopy procedures
- Enhanced full **360° single finger rotation** results in precise control of the electrode
- Demountable into sheath, insert and handle for **convenient and reliable cleaning and component replacement**

... more Features

- Unique mechanism enables well adjustable opening and closing of the jaws combined with very high pressure while grasping and cutting
- Easy handling
- Standard flat plug with common bipolar cable fitting
- Double-hinge jaw design
- Ergonomic handles made of high quality PEEK polymer
- Diameter of 3 mm with 290 mm WL

Bipolar Mini Maryland Grasping Forceps, Premium Line

For Use with 23-3090 and 23-3091

	Item no.
Miniature Maryland grasping forceps, bipolar insert, double-action, Ø 3 mm, 290 mm	**23-3025BP**

Bipolar Mini Fenestrated Grasper, Premium Line

For Use with 23-3090 and 23-3091

	Item no.
Miniature fenestrated grasping forceps, bipolar insert, double-action, Ø 3 mm, 290 mm	**23-3082BP**

Bipolar Mini Metzenbaum Scissors, Premium Line

For Use with 23-3090 and 23-3091

	Item no.
Miniature Metzenbaum scissors, bipolar insert, double-action, Ø 3 mm, 290 mm	**23-3000BP**

Handle for Bipolar Inserts

For Use with Miniature Premium Bipolar Instruments

	Item no.
Handle for miniature bipolar detachable instrument, use with 23-3091	**23-3090**

Sheath for Bipolar Inserts

For Use with Miniature Premium Bipolar Instruments

	Item no.
Sheath for miniature bipolar detachable instruments, Ø 3 mm, 290 mm	**23-3091**

Axial Needleholders

Key Features

- Extremely light-weight and ergonomic **aluminum handles**
- Total weight of **under 120 g**
- **Maneuverability is enhanced** while reducing fatigue
- Unique overload protection to **avoid needle breakage**
- **Ø 3 mm diameter for Miniature Laparoscopy** procedures

... more Features

- Adjustable ratchet
- Despite its weight very robust and durable
- Instrument cleaning port
- With 200 mm or 360 mm working length

Miniature Axial Needleholders, Straight Jaws

	Length		Item no.
	200 mm	360 mm	
Miniature axial needleholder, straight jaws, angled handle, Ø 3 mm	•		**23-3026P-20**
Miniature axial needleholder, straight jaws, angled handle, Ø 3 mm		•	**23-3026P**

Miniature Axial Needleholders, Right Curved Jaws

	Length		Item no.
	200 mm	360 mm	
Miniature axial needleholder, right curved jaws, angled handle, Ø 3 mm	•		**23-3027P-20**
Miniature axial needleholder, right curved jaws, angled handle, Ø 3 mm		•	**23-3027P**

Miniature Axial Needleholders, Left Curved Jaws

	Length		Item no.
	200 mm	360 mm	
Miniature axial needleholder, left curved jaws, angled handle, Ø 3 mm	•		**23-3028P-20**
Miniature axial needleholder, left curved jaws, angled handle, Ø 3 mm		•	**23-3028P**

Miniature Needleholders, Straight Jaws

	Length		Item no.
	200 mm	330 mm	
Miniature needleholder, straight jaws, axial handle, Ø 3 mm	•		23-3026AX-20
Miniature needleholder, straight jaws, axial handle, Ø 3 mm		•	23-3026AX

Miniature Needleholders, Right Curved Jaws

	Length		Item no.
	200 mm	330 mm	
Miniature needleholder, rightt curved jaws, axial handle, Ø 3 mm	•		23-3027AX-20
Miniature needleholder, right curved jaws, axial handle, Ø 3 mm		•	23-3027AX

Miniature Needleholders, Left Curved Jaws

	Length		Item no.
	200 mm	330 mm	
Miniature needleholder, left curved jaws, axial handle, Ø 3 mm	•		23-3028AX-20
Miniature needleholder, left curved jaws, axial handle, Ø 3 mm		•	23-3028AX

Miniature LL Injection Needle

	Item no.
Miniature injection needle (Ø 1.2 mm / 18 gauge) with Luer Lock, Ø 2.8 mm, 330 mm	**13-1619-3**

Miniature Knot Pusher

	Item no.
Miniature knot pusher, Ø 3 mm, open eyelet, 330 mm	**13-1617-3**

Miniature Palpation Probe

	Item no.
Graduated **miniature palpation probe**, Ø 3 mm, open eyelet, 330 mm	**10-1110-3**

Miniature Verres Needle

	Item no.
Miniature verres needle, Ø 2 mm, 120 mm	**10-1105**

www.ackermannsurgical.com

Ackermann Instrumente GmbH
Eisenbahnstrasse 65-67
78604 Rietheim-Weilheim, Germany

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