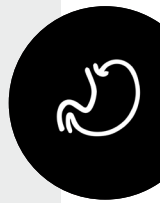


Innovating Tradition.

Miniature Laparoscopy

- » Miniature Laparoscopes
- » Trocars & Obturators for Miniature Laparoscopy
- » Instruments for Miniature Laparoscopy
- » Electrodes for Miniature Laparoscopy
- » Specialty Instruments for Miniature Laparoscopy

Section 23





more than
65
years
experience

more than
20K
line
items

servicing over
100
countries
worldwide

Who we are

For almost seven decades the Ackermann Group successfully develops, manufactures and distributes premium solutions for a vast variety of surgical applications, primarily in the fields of open and minimally-invasive surgery, but also ligating and spinal implants. In addition to our strong brands, we stand behind an array of unique and highly sophisticated products as an OEM manufacturer and are proud of our global market leadership.

Philosophy

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. 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.



Business Units



Endoscopy

With more than 8.000 SKUs we have grown to become a global market leader in all specialities of Minimally Invasive Surgery.



Ligation

The Ackermann EUROPCLIP™ is a complete solution for state-of-the-art vessel sealing.



Spinal Implants

Ackermann manufactures a complete implant line, from cervical to lumbar, from PEEK to titanium 3D printed.



General Instruments

More than 12.000 products complement our range of surgical instruments at premium quality.

To find out more please visit www.ackermannsurgical.com

Miniature Laparoscopy



**Chapter
Overview****CONTENTS**

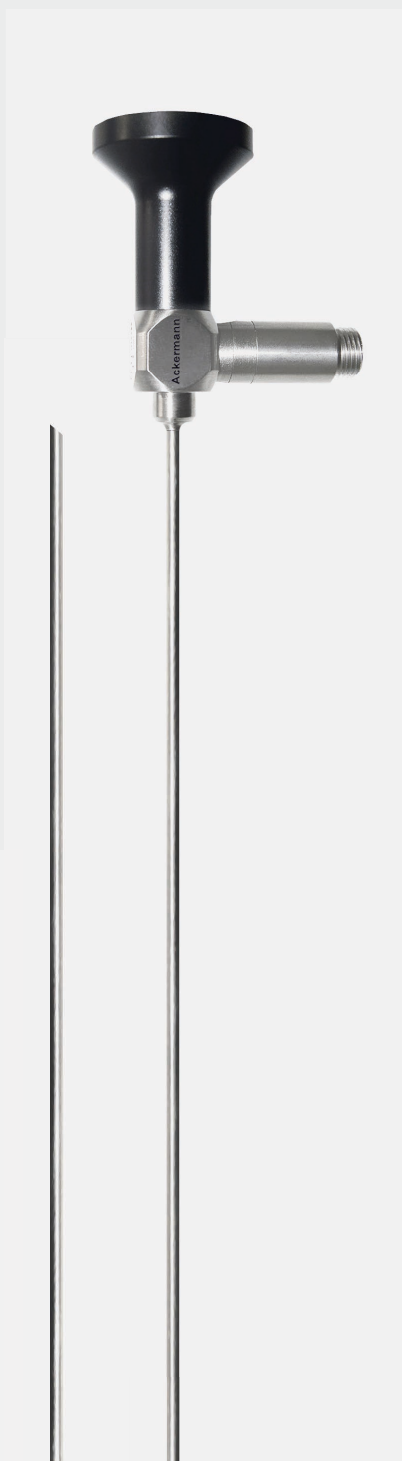
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¹ Any companies mentioned in this catalogue including their brand names and related products are protected under intellectual property laws. The use of them does not imply any affiliation with or endorsement by them.

² Specifications, design and accessories in this catalogue are subject to change without any notice or obligation on the part of the manufacturer.

Miniature Laparoscopes



Chapter**1****CONTENTS**

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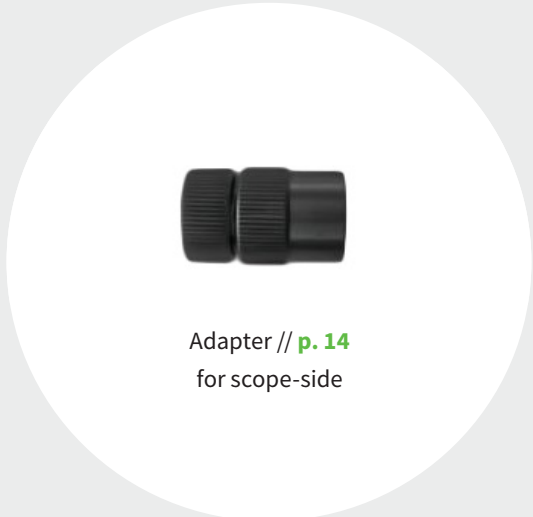
MINIATURE LAPAROSCOPES System C



Miniature Laparoscopes // **p. 11**
0° | 30°

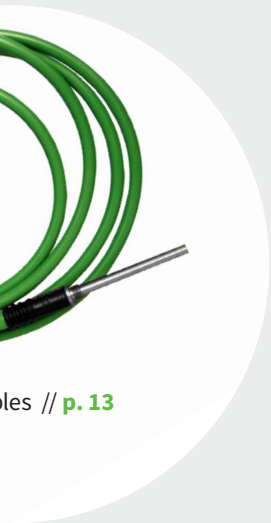


Light cable



Adapter // **p. 14**
for scope-side

SCOPES & ACCESSORIES Overview



ables // **p. 13**



Lightsources // **catalogue 16**



Adapter // **p. 15**
for lightsource-side





01. Facts & Features

MINIATURE LAPAROSCOPES

- ✓ Made of high-quality stainless steel
- ✓ Sapphire glass lens
- ✓ Sophisticated, anti-reflective optical system
- ✓ Excellent optical transmission
- ✓ Highly refractive lenses for optimum colour rendering even at high magnification
- ✓ Includes various light cable adapters (Ackermann, Storz¹, Olympus¹, Wolf¹, ACMI¹)
- ✓ High-quality glass cone for optimizing light input
- ✓ Sealing by laser welding
- ✓ Three-tube construction for more stability
- ✓ C-Mount camera coupler
- ✓ Extremely precise centering of the optical and mechanical components for a brilliant and high-contrast image right up to the edge area
- ✓ Nitrogen filled optical system to avoid fogging from the inside
- ✓ Powerful optical fibers



MINIATURE LAPAROSCOPE 0°

Application : Mini Lap // Type: Rigid

Working length: 207 mm

Total length: 270 mm

Diameter: Ø 2.9 mm

Item #: **23-3060**

Miniature



MINIATURE LAPAROSCOPE 30°

Application : Mini Lap // Type: Rigid

Working length: 207 mm

Total length: 270 mm

Diameter: Ø 2.9 mm

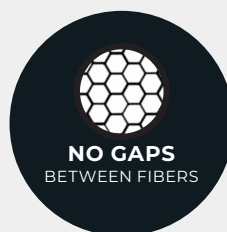
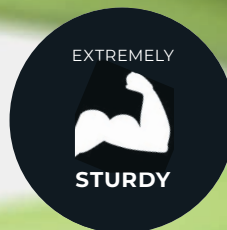
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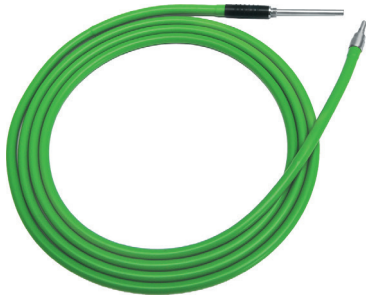
Miniature

02. Facts & Features

LIGHT CABLES

- ✓ No gaps between the fibers ensures 30% more light in comparison to conventionally bundled fiber light cables
- ✓ Extremely sturdy material and highly flexible at the same time
- ✓ Transverse pressure resistant
- ✓ Excellent bending property





STANDARD LIGHT CABLE

Application : Laparoscopy

Diameter: Ø 4.8 mm

Length: 2.4 m | 3 m

Item #: **11-1159** | **11-1169**



HIGH-PERFORMANCE LIGHT CABLE

Application : Laparoscopy

Type:

Diameter: Ø 4.8 mm

Length: 2.4 m | 3 m

Item #: **11-1167** | **11-1161**



ANTI-FOG LIQUID

Application: Laparoscopy

UOM: 30 pcs.

Item #: **11-1121**



LIGHT CABLE

Scope & Light



ADAPTER FOR SCOPES

Application: Miniature Laparoscopy

Type: Ackermann / Storz¹
Item #: [11-1146-100](#)



ADAPTER FOR SCOPES

Application: Miniature Laparoscopy

Type: Wolf¹
Item #: [11-1146-200](#)



ADAPTER FOR SCOPES

Application: Miniature Laparoscopy

Type: ACMI¹, Circon¹, Stryker¹
Item #: [11-1146-300](#)



ADAPTERS Lightsource-side



ADAPTER FOR LIGHTSOURCE

Application: Miniature Laparoscopy

Type: Ackermann / Storz¹
Item #: **11-1147-100**



ADAPTER FOR LIGHTSOURCE

Application: Miniature Laparoscopy

Type: Wolf¹
Item #: **11-1147-200**



ADAPTER FOR LIGHTSOURCE

Application: Miniature Laparoscopy

Type: ACMI¹, Circon¹, Stryker¹
Item #: **11-1147-300**



ADAPTER FOR LIGHTSOURCE

Application: Laparoscopy

Type: Ackermann / Storz¹
Item #: **11-1147-400**

Miniature Access



Chapter**2****CONTENTS**

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Silicone Valve Trocar 19

Obturator for Miniature Laparoscopy **20 - 21**

Obturator with triangular Tip 21

01. Facts & Features

TROCARS FOR MINI LAPAROSCOPY

- ✓ Trocars made of ultra lightweight carbon fiber and high-quality stainless steel
- ✓ Less damage of scope and instrument tip due to less instrument friction
- ✓ Use with accompanying miniature laparoscopy obturators and instruments
- ✓ Ergonomic design with LL stopcock
- ✓ Safe CO² sealing
- ✓ Easy cleaning due to demountability
- ✓ Easy valve exchange
- ✓ Excellent feedback when inserting into the abdominal cavity

+ Other cannula lengths and diameters **on request**



Use with
obturator
23-3021



MULTIFUNCTIONAL TROCAR

Application : Mini Laparoscopy

Type: Plain cannula, made of stainless steel, lever-operated flap door valve

WL: 70 mm

Total length: 124 mm

Diameter: 3 mm

Item #: **23-3084**

Miniature

Use with
obturator
23-3022



SILICONE VALVE TROCAR

Application : Mini Laparoscopy

Type: Plain stainless steel cannula, housing made of carbon fiber, silicone valve

WL: 70 mm

Total length: 105 mm

Diameter: 3 mm

Item #: **23-3086**

Miniature

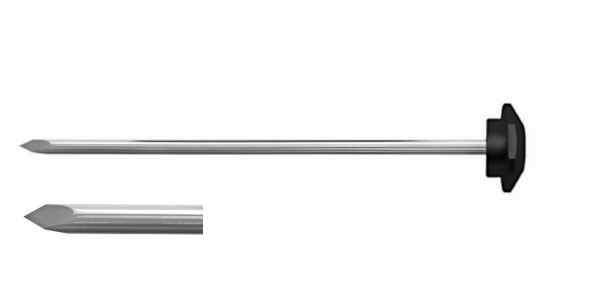
02. Facts & Features

OBTURATORS FOR MINI LAPAROSCOPY

- ✓ Obturators made of high-quality stainless steel sheath and carefree carbon fiber top
- ✓ Standard designs with proven pyramidal tip for easy access
- ✓ For trocar diameters of 3 mm
- ✓ Easy cleaning
- ✓ Compatible with Ackermann mini trocars



Triangular
tip



OBTURATOR WITH TRIANGULAR TIP

Application : Mini Laparoscopy

Type: Triangular tip

Diameter: Ø 3 mm

WL: 130 mm | 110 mm

For : 23-3084 | 23-3086 trocar

Item #: **23-3021** | **23-3022**

Miniature

Access

2

Miniature Instrumentation



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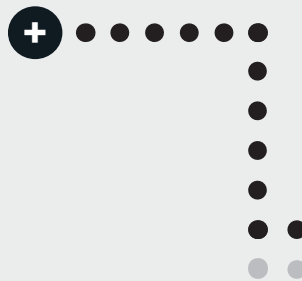
Miniature Specialty Instruments	34 - 35
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MINIATURE INSTRUMENTS Assemblies



Jaw-sheath-assembly // **p. 26 - p. 29**
360 mm



Jaw-sheath-assembly //
200 mm for **pediatry**
Ordering example: 23-3000-20



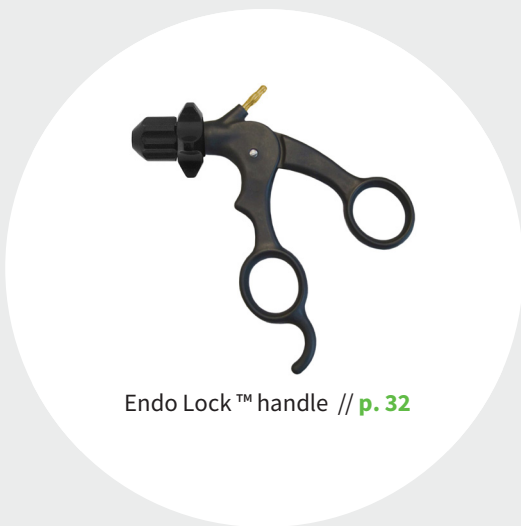
ON REQUEST



Complete instrument with axial handle //
360 mm | 200 mm for **pediatry**
Ordering example: 23-3000AX

ON REQUEST

INSTRUMENTATION Assembly



Endo Lock™ handle // [p. 32](#)

Suitable
HANDLES
p. 32

MINIATURE INSTRUMENTS Jaw-Sheath

SCISSORS



MINIATURE METZENBAUM SCISSORS

Application : Miniature Laparoscopy

Type: Curved, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3000

SCISSORS



MINIATURE HOOK SCISSORS

Application : Miniature Laparoscopy

Type: Straight, single-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3001

SCISSORS



MINIATURE METZENBAUM SCISSORS

Application : Miniature Laparoscopy

Type: Straight, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3005

INSTRUMENTATION n-Assembly

SCISSORS



MINIATURE METZENBAUM

Application : Miniature Laparoscopy

Type: Curved, serrated, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3010**

GRASPING
FORCEPS



MINIATURE GRASPING FORCEPS

Application : Miniature Laparoscopy

Type: Double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3015**

GRASPING
FORCEPS



MINIATURE GRASPING FORCEPS

Application : Miniature Laparoscopy

Type: Heavy serrated, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3035**



MINIATURE INSTRUMENTS

Jaw-Sheath

GRASPING
FORCEPS



MINIATURE GRASPING FORCEPS

Application : Miniature Laparoscopy

Type: Heavy serrated, "Cobra",
double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3040**

GRASPING
FORCEPS



MINIATURE DUCKBILL FORCEPS

Application : Miniature Laparoscopy

Type: Double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3045**

GRASPING
FORCEPS



MINIATURE SPOON

Application : Miniature Laparoscopy

Type: Serrated, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3055**

INSTRUMENTATION

n-Assembly

GRASPING
FORCEPS



MINIATURE GRASPING FORCEPS

Application : Miniature Laparoscopy

Type: Fenestrated, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3082**

DISSECTOR



MINIATURE KELLY FORCEPS

Application : Miniature Laparoscopy

Type: Double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3020**

DISSECTOR



MINIATURE MARYLAND

Application : Miniature Laparoscopy

Type: Double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3025**



MINIATURE INSTRUMENTS Jaw-Sheath

DISSECTOR



MINIATURE ATRAUMATIC DISSECTOR

Application : Miniature Laparoscopy

Type: Straight, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3030

NEEDLE HOLDER



MINIATURE NEEDLEHOLDER

Application : Miniature Laparoscopy

Type: TC jaws, single-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3026

NEEDLE HOLDER



MINIATURE NEEDLEHOLDER

Application : Miniature Laparoscopy

Type: TC jaws, right-curved, single-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: 23-3027

INSTRUMENTATION n-Assembly

NEEDLE
HOLDER



MINIATURE NEEDLEHOLDER

Application: Miniature Laparoscopy

Type: TC jaws, left-curved, single-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3028**

BIOPSY
SPOON



MINIATURE BIOPSY SPOON

Application: Miniature Laparoscopy

Type: Standard, double-action

Length: 360 mm

Diameter: \varnothing 3 mm

Item #: **23-3050**

ENDO LOCK™

MINIATURE INSTRUMENT Handles



ERGONOMIC

ENDO LOCK™ CARBON FIBER HANDLE

Application: Laparoscopy

Diameter: Non-ratchet
Item #: [13-1367RCFI](#)



ERGONOMIC

ENDO LOCK™ CARBON FIBER HANDLE

Application: Laparoscopy

Diameter: Traditional ratchet
Item #: [13-1368RCFI](#)



STANDARD

ENDO LOCK™ CARBON FIBER HANDLE

Application: Laparoscopy

Type: Universal ratchet
Item #: [13-1384RCFI](#)



STANDARD

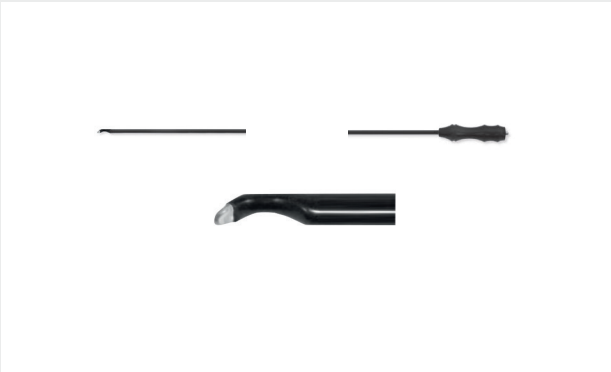
ENDO LOCK™ CARBON FIBER HANDLE

Application: Laparoscopy

Diameter: French ratchet
Item #: [13-1369FRI](#)

INSTRUMENTATION

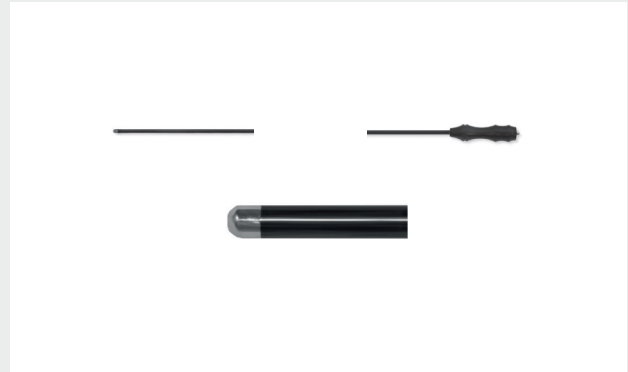
Electrodes



MINIATURE SPATULA ELECTRODE

Application: Miniature Laparoscopy

Diameter: \varnothing 3 mm
Length: 330 mm
Item #: **23-3065**



MINIATURE BUTTON ELECTRODE

Application: Miniature Laparoscopy

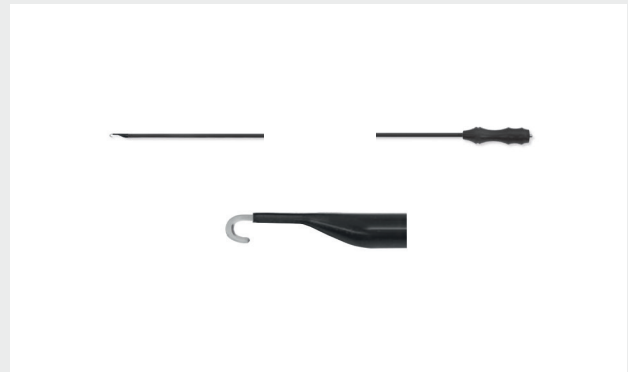
Diameter: \varnothing 3 mm
Item #: **23-3066**



MINIATURE L-HOOK ELECTRODE

Application: Miniature Laparoscopy

Diameter: \varnothing 3 mm
Length: 330 mm
Item #: **23-3070**

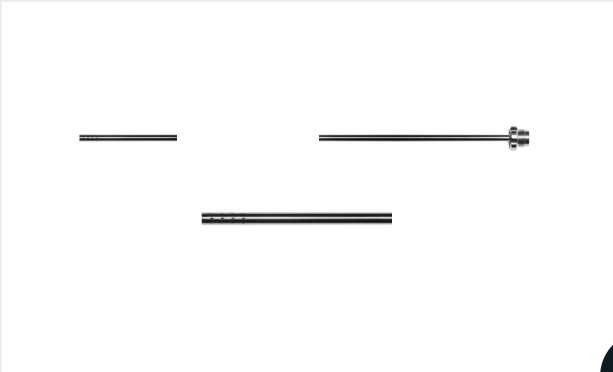


MINIATURE J-HOOK ELECTRODE

Application: Miniature Laparoscopy

Diameter: \varnothing 3 mm
Length: 330 mm
Item #: **23-3075**

MINIATURE INSTRUMENTS Specialty Instruments



TUBE

Application: Miniature Laparoscopy

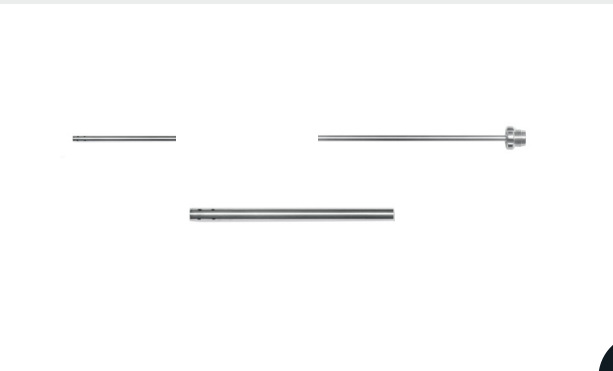
Type: With drillings
Diameter: Ø 3 mm
Item #: **11-1278-3**



SUCTION-IRRIGATION PISTOL HANDLE

Application: Miniature Laparoscopy

Type: With 2 way valve
Item #: **11-1276**



HIGH-FLOW TUBE

Application: Miniature Laparoscopy

Type: With 8 drillings
Diameter: Ø 3 mm
Item #: **11-1237-700**

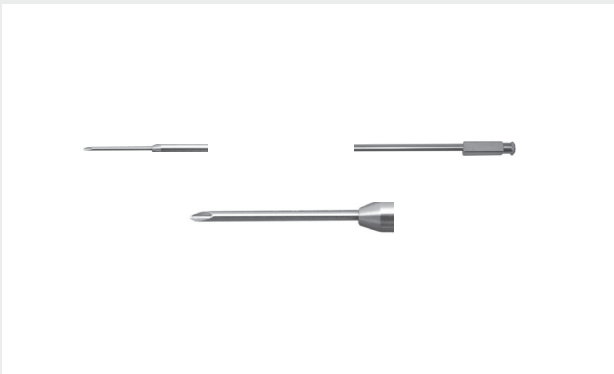


MODULAR SUCTION-IRRIGATION HANDLE

Application: Miniature Laparoscopy

Type: With tube connection for 3 / 5 / 10 mm tube
Item #: **11-1236**

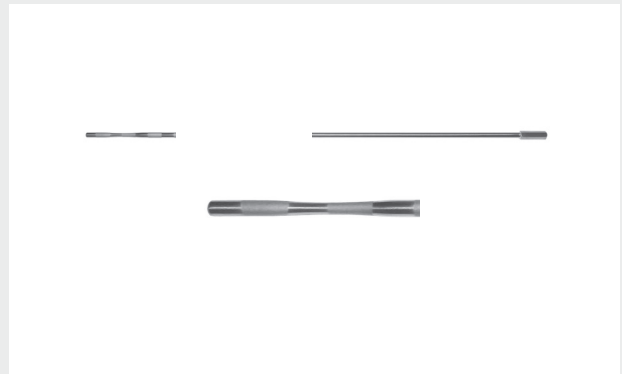
INSTRUMENTATION Instruments



LL INJECTION NEEDLE

Application: Miniature Laparoscopy

Diameter: \varnothing 3 mm
Length: 330 mm
Item #: **13-1619-3**



GRADUATED PALPATION PROBE

Application: Miniature Laparoscopy

Diameter: \varnothing 3 mm
Length: 330 mm
Item #: **10-1110-3**





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