KARL STORZ, Your Partner in Pediatric Surgery

The diagnosis and therapy of children requires instruments that are appropriately adapted to the anatomical characteristics of the pediatric patient.

The following pages provide you with an overview of the product portfolio specially developed by KARL STORZ for this purpose in the fields of laparoscopic pediatric surgery, proctology in children, pediatric urology and pediatric pneumology.

Furthermore, KARL STORZ offers child-specific instrumentation for the specialist disciplines listed below:

- Neurosurgery
- Endoscopes and instruments for ENT
- Endoscopes for anesthesiology and emergency medicine
- Esophagoscopy, bronchoscopy
- Gastroenterology
- Units and accessories for pediatrics
- Telepresence

Additional information on these specialist disciplines is available on the KARL STORZ website: www.karlstorz.com
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Bronchoscopy Instrumentation for Children

KARL STORZ offers bronchoscopy instruments that have been tailored to the anatomy of children. These include bronchoscopes in various sizes and lengths as well as optical forceps and accessories. The smallest bronchoscope allows interventions such as foreign body removal and biopsies to be performed on newborns and small children under optical control.

Special features of the bronchoscopy instrumentation:

- Special surface treatment for optimal gliding properties of the bronchoscope sheath
- Atraumatic bronchoscope tip for patient-friendly insertion
- Wide range of diverse forceps for foreign body removal and biopsy

The telescope bridge, which is firmly locked onto the rigid bronchoscope, simplifies camera-guided intubation and protects against rod lens breakage. This guarantees a constant view of the distal end of the bronchoscope.

The optical forceps feature a new patented sheath design that simplifies handling during cleaning. The modified handle with force limitation minimizes the risk of jaw breakage.
Pediatric Rigid Bronchoscopy Set for Foreign Body Removal

**Bronchoscopes and Telescope Bridge**

10324 AA  **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, autoclavable, fiber optic light transmission incorporated, color code: green

10339 B  **DOESEL-HUZLY Bronchoscope**, size 5, length 30 cm

10339 BB  **DOESEL-HUZLY Bronchoscope**, size 4.5, length 30 cm

10339 CD  **DOESEL-HUZLY Bronchoscope**, size 3.5, length 30 cm

10338 RK  **Telescope Bridge**, for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A/B/BB/CD/EEE/G

**Optical Forceps**

10378 CF  **Optical Forceps**, 2 x 2 teeth, for the controlled grasping of coins and flat foreign bodies, with force-limited handle, incl. cleaning adaptor

10378 HF  **Optical Forceps**, with alligator jaws, for the controlled grasping of hard foreign bodies, with force-limited handle, incl. cleaning adaptor

10378 KF  **Optical Forceps**, with KILLIAN bean jaws, for the controlled grasping of peanuts and soft foreign bodies, with force-limited handle, incl. cleaning adaptor

10378 KSF  **Optical Forceps**, VANCOUVER model, for the controlled grasping of peanuts and soft foreign bodies, with force-limited handle, incl. cleaning adaptor

**Adaptors**

10101 HA  **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable

10338 P  **FLUVOG Adaptor**, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable

10338 S  **Instrument Guide**, for suction catheter, short

10924 D  **Adaptor**, for respirator

10318 K  **Injection Cannula**, for positive pressure assisted ventilation system, Luer-Lock, outer diameter 3.5 mm

Further instruments for bronchoscopy can be found in the Thorax catalog.
New Trocar Generation for Laparoscopic Pediatric Surgery

The newly designed trocar generation combines single-use with reusable components. Whereas cannulas and trocars feature a design with reusable components, the new valve seal is intended for single use.

Special Features

- The ergonomic shape of the trocar ensures safe and reliable handling during placement
- The new plastic trocar housing ensures that the weight is considerably reduced and the trocar is well-balanced
- One-piece sealing system for single use (package of 10), now also available as a sterile version
- Minimal friction between the valve seal and the instrument
- Available in diameters 2.5 mm, 3.5 mm and 6 mm with a working length of 5 cm
<table>
<thead>
<tr>
<th>Size</th>
<th>2.5 mm</th>
<th>3.5 mm</th>
<th>6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working length</td>
<td>5 cm</td>
<td>5 cm</td>
<td>5 cm</td>
</tr>
<tr>
<td>Color code</td>
<td>blue</td>
<td>green</td>
<td>black</td>
</tr>
</tbody>
</table>

**Trocar**, with pyramidal tip, including **valve seal**, unsterile, for single use, package of 10
- **11603 GZS**
- **30114 GZS**
- **30160 GZS**

**Trocar**, with blunt conical tip, including **valve seal**, unsterile, for single use, package of 10
- **30114 GNS**
- **30160 GNS**

**Trocar**, with conical tip, including **valve seal**, unsterile, for single use, package of 10
- **30114 GYS**
- **30160 GYS**

**Valve Seals**, for single use, package of 10

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>unsterile</td>
<td></td>
<td></td>
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<tr>
<td>For trocars size 2.5 mm</td>
<td><strong>11603-XV2</strong></td>
<td>021099-10</td>
</tr>
<tr>
<td>For trocars size 3.5 mm</td>
<td><strong>30114-XV3</strong></td>
<td>021199-10</td>
</tr>
<tr>
<td>For trocars size 6 mm</td>
<td><strong>30160-XV5</strong></td>
<td>021299-10</td>
</tr>
</tbody>
</table>

Further sizes and lengths can be found in the main Laparoscopy catalog.
The New RoTaLock™ Trocar

The TAN ROTALOCK™ trocar is a self-retaining trocar that was especially developed for neonatal surgery / pediatric laparoscopic surgery.

Special Features:

- Distal tip of the cannula enables fixation directly under the abdominal wall and prevents the cannula from slipping out of the abdominal wall
- Due to the short length of the sheath, the distal tip of the cannula does not hinder opening of the jaws
- One-piece sealing system for single use, now also available as a sterile version
- Available in sizes 3.5 mm and 6 mm
30114 RO  TAN ROTALOCK™ Trocar, without Luer-Lock connector for insufflation, size 3.5 mm, working length 3 cm, color code: green
including
Cannula
Valve Seal, unsterile, for single use, package of 10

Optional:
30114 RB  ROTALOCK™ Trocar
30160 RO  TAN ROTALOCK™ Trocar, with Luer-Lock connector for insufflation, size 6 mm, working length 5 cm, color code: black
including
Cannula
Valve Seal, unsterile, for single use, package of 10

Optional:
30160 RB  ROTALOCK™ Trocar

Valve Seals, for single use, package of 10

<table>
<thead>
<tr>
<th></th>
<th>unsterile</th>
<th>STERILE</th>
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</thead>
<tbody>
<tr>
<td>For trocars size 3.5 mm</td>
<td>30114-XV3</td>
<td>021199-10</td>
</tr>
<tr>
<td>For trocars size 6 mm</td>
<td>30160-XV5</td>
<td>021299-10</td>
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</table>

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Three-part Dismantling CLICKline Series for Pediatric Laparoscopic Surgery

The CLICKLINE instrument line (diameter 3.5 mm, length 20 cm) for pediatric laparoscopic surgery features great stability while its efficient, modular construction offers a high level of flexibility.

Special Features:

- Working length (20 cm) adapted to the special requirements of pediatric laparoscopy
- Modular concept: 3-part dismantling instruments fulfil the highest hygiene demands while offering the best possible variability
- Diverse combination possibilities thanks to a wide range of jaws with various outer sheaths and CLICKLINE handles
- Additional stability thanks to combination with metal outer sheath
- Working inserts with fully integrated joints

In addition to this instrument line (3.5 mm, three-part dismantling) we also offer 3 mm instruments with a length of 20 cm (two-part dismantling). Further information can be found in the main Laparoscopy catalog.
CLICKline Dissecting Forceps, insulated, size 3.5 mm, length 20 cm

Operating instruments, **length 20 cm**, for use with trocars size 3.5 mm

<table>
<thead>
<tr>
<th>Length</th>
<th>Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 cm</td>
<td>33151</td>
</tr>
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</table>

**Double action jaws**

<table>
<thead>
<tr>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>31110 ML</td>
<td>31151 ML 31152 ML 31153 ML 31156 ML 31121 ML 31149 ML</td>
</tr>
<tr>
<td>31110 MD</td>
<td>31151 MD 31152 MD 31153 MD 31156 MD 31121 MD 31149 MD</td>
</tr>
<tr>
<td>31110 R</td>
<td>31151 R 31152 R 31153 R 31156 R 31121 R 31149 R</td>
</tr>
<tr>
<td>31110 UL</td>
<td>31151 UL 31152 UL 31153 UL 31156 UL 31121 UL 31149 UL</td>
</tr>
</tbody>
</table>

CLICKLINE KELLY Dissecting and Grasping Forceps, long
CLICKLINE KELLY Dissecting and Grasping Forceps
CLICKLINE Dissecting and Grasping Forceps, right-angled jaws
CLICKLINE REDDICK-OLSEN Dissecting and Grasping Forceps, robust

Jaw length in mm (approx. measurements)

Further dissecting and grasping forceps can be found in the main Laparoscopy catalog.
CLICKline Grasping Forceps, not insulated, size 3.5 mm, length 20 cm

Operating instruments, **length 20 cm**, for use with **trocars size 3.5 mm**

<table>
<thead>
<tr>
<th>Length</th>
<th>Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 cm</td>
<td>33161</td>
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</tbody>
</table>

**Single action jaws**

<table>
<thead>
<tr>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
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<td>31110 ON</td>
<td>31110 ONM 31161 ONM 31162 ONM 31163 ONM 31166 ONM 31131 ONM 31146 ONM 31147 ONM</td>
</tr>
</tbody>
</table>

CLICKLINE Grasping Forceps, fenestrated, with especially fine atraumatic serration

**Double action jaws**

<table>
<thead>
<tr>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>31110 C</td>
<td>31110 CM 31161 CM 31162 CM 31163 CM 31166 CM 31131 CM 31146 CM 31147 CM</td>
</tr>
</tbody>
</table>

CLICKLINE ROTHENBERG Bowel Grasper

<table>
<thead>
<tr>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>31110 MG</td>
<td>31110 MGM 31161 MGM 31162 MGM 31163 MGM 31166 MGM 31131 MGM 31146 MGM 31147 MGM</td>
</tr>
</tbody>
</table>

CLICKLINE MANHES Dissecting and Grasping Forceps, “tiger jaws”, 2 x 4 teeth

<table>
<thead>
<tr>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>31110 FG</td>
<td>31110 FGM 31161 FGM 31162 FGM 31163 FGM 31166 FGM 31131 FGM 31146 FGM 31147 FGM</td>
</tr>
</tbody>
</table>

CLICKLINE Grasping Forceps, atraumatic, wavy serration

**Jaw length in mm (approx. measurements)**

Further grasping forceps can be found in the main Laparoscopy catalog.
CLICKline Scissors, insulated, size 3.5 mm, length 20 cm

Operating instruments, length 20 cm, for use with trocars size 3.5 mm

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Handle</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>20 cm</td>
<td>33151</td>
</tr>
<tr>
<td></td>
<td></td>
<td>33121</td>
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<td></td>
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<td>33149</td>
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**Double action jaws**

<table>
<thead>
<tr>
<th></th>
<th>Working Insert</th>
<th>Complete Instrument</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>31110 MW</td>
<td>31151 MW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31121 MW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31149 MW</td>
</tr>
</tbody>
</table>

CLICKLINE Scissors, serrated, curved, conical

**Single action jaws**

<table>
<thead>
<tr>
<th></th>
<th>Working Insert</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31110 EH</td>
<td>31151 EH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31121 EH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31149 EH</td>
</tr>
</tbody>
</table>

CLICKLINE Micro Hook Scissors

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Jaw length in mm (approx. measurements)

Further scissors can be found in the main Laparoscopy catalog.
RoBi® – Rotating Bipolar Grasping Forceps and Scissors for Pediatric Laparoscopic Surgery

The rotating and bipolar instruments are now available for the first time with a diameter of 3.5 mm and a working length of 20 cm and allow precise work on tissue. The enhanced instrument design and materials used ensure the highest mechanical stability. The force limiter integrated in the handle prevents the jaws from overloading. Color coding on the forceps insert and the handle enables clear identification of the new, modular ROBi® components.

Special Features:

- Rotating and bipolar instruments, for the first time with a diameter of 3.5 mm, working length 20 cm
- Jaws with robust hinge in conjunction with force limiter allows precise and secure grasping
- Insulated outer sheath, 360° rotating sheath
- Modular construction for optimal cleaning
RoBi® Bipolar Grasping Forceps and Scissors, size 3.5 mm

Rotating, 2-part, dismantling, with connector pin for bipolar coagulation, CLERMONT-FERRAND model

Operating instruments, length 20 cm, for use with trocars size 3.5 mm

<table>
<thead>
<tr>
<th>Working Insert with Outer Sheath</th>
<th>Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 cm</td>
<td>38151</td>
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</tbody>
</table>

Double action jaws

<table>
<thead>
<tr>
<th>Working Insert with Outer Sheath</th>
<th>Complete Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>38810 MD</td>
<td>38851 MD</td>
</tr>
<tr>
<td>ROBi® KELLY Grasping Forceps, CLERMONT-FERRAND model, especially suitable for dissection, color code: light blue</td>
<td></td>
</tr>
<tr>
<td>38810 ON</td>
<td>38851 ON</td>
</tr>
<tr>
<td>ROBi® Grasping Forceps, CLERMONT-FERRAND model, with especially fine atraumatic serration, fenestrated jaws, color code: light blue</td>
<td></td>
</tr>
<tr>
<td>38810 PT</td>
<td>38851 PT</td>
</tr>
<tr>
<td>ROBi® TAN Grasping Forceps, CLERMONT-FERRAND model, especially suitable for dissection, color code: light blue</td>
<td></td>
</tr>
<tr>
<td>38810 MW</td>
<td>38851 MW</td>
</tr>
<tr>
<td>ROBi® METZENBAUM Scissors, CLERMONT-FERRAND model, curved blades, color code: light blue</td>
<td></td>
</tr>
</tbody>
</table>

Jaw length in mm (approx. measurements)

Further information can be found in the main Laparoscopy catalog.
New Pyloric Knife with Knife Insert for Single Use

The KARL STORZ instrument set for pyloromyotomy has been expanded to include a new pyloric knife for pediatric surgery.

Special Features:

- Knife insert (package of 10) for optimal cutting
- Ergonomic and reusable handle
- Integrated ratchet mechanism allows the knife insert to be locked in 8 positions and extended to the desired length in a controlled manner
- Markings on the knife insert to control the extended length of the knife
- Protective cap for safe assembly and disassembly of the knife insert
26167 DRS  **Pyloric Knife**, with Luer-Lock connector for cleaning, size 3 mm, length 10 cm, including:
- **Handle**, with outer sheath
- **Knife Insert**, unsterile, for single use, package of 10

26167 KRS  **Knife Insert**, unsterile, for single use, package of 10
ENDOFLATOR® 50

The new insufflator with integrated heating element and sensitive mode for laparoscopic pediatric surgery

Special Features:

- Optimized control of the insufflation pressure for pediatric applications as well as safety limits for pressure (up to max. 15 mmHg) and flow (up to max. 15 l/min)
- Stable OR field thanks to innovative regulation
- Gas heating adapts to various ambient conditions and reliably prevents telescope fogging
- In combination with the S-PILOT® smoke evacuation system, creates optimal viewing conditions and a stable OR field, even in small cavity surgery*

* Further information on the S-PILOT® smoke evacuation system is available in the UNITS Highlights.
UI 500  **ENDOFLOATOR® 50 SCB**, with integrated SCB module, power supply 100-240 VAC, 50/60 Hz, System requirements for use with SCB-PC: SCB R-UI Software Release V03.17.00.01 or higher

20090170  **SCB Connecting Cable**, length 100 cm

20400030  **Universal Wrench**

031210-10*  **Insufflation Tubing Set**, heatable, with gas filter, sterile, for single use, hydrophobic on both sides, with 3 m insufflation tube and male Luer-Lock, package of 10, for use with KARL STORZ ENDOFLATOR® 50
Thin, Pediatric System for Pediatric Urology

From childhood to old age, size plays a crucial role in urology. The pediatric system from KARL STORZ for newborn babies and children offers urologists and pediatric urologists or surgeons significant enhancements in urological care. The development of the 1.2 mm miniature telescope enables the further reduction of the previous cystoscopes, reflux cystoscopes, urethrotomes and resectoscopes while offering a new product line with special instruments for the field of pediatric urology.

Special Features:
- Excellent optical quality with the smallest possible diameter
- Straightforward and gentle patient treatment thanks to the smallest possible sheath size
- Bifunctional working element – pediatric resectoscope and urethrotome
- Special sheath for the treatment of vesicoureteral reflux
27033 AA  Miniature Straight Forward Telescope 0°, diameter 1.2 mm, length 20 cm, autoclavable, fiber optic light transmission incorporated, color code: green

27033 C  Cystoscope-Urethroscope Sheath, 8 Fr., with 4 Fr. working channel, working length 16 cm, color code: blue

27033 CR  Cystoscope-Urethroscope Sheath, 8 Fr., with 4 Fr. working channel, for reflux needles, working length 16 cm, color code: white

27033 EH  Electrotome
  including:
  Working Element
  Cutting Loop
  Coagulation Electrode
  High Frequency Cord
  Protection Tube

27033 R  Resectoscope Sheath, with Luer-Lock stopcock, 9 Fr., color code: yellow

27033 EK  Working Element Set
  including:
  Working Element
  Knife

27033 U  Urethrotome Sheath, with Luer-Lock stopcock, 8 Fr.

27033 F  Telescope Bridge, with 1 lockable channel
Operating Cystoscope-Urethroscope for Children

For straightforward and gentle treatment

The operating cysto-urethoscopes with atraumatic tip and excellent gliding properties provide the operating surgeon with enhanced possibilities for diagnosis as well as straightforward and gentle treatment of the patient. The straight working channel and the excellent telescope significantly enhance the efficient performance of various procedures.

Special Features:

- Atraumatically shaped distal end of sheath with rounded tip
- Minimal sheath diameter
- Maximum irrigation due to the large, straight working channel
27030 KAK  Pediatric Cysto-Urethroscope, 8 Fr., 6°, 1 step, 8-11 Fr., length 13 cm, autoclavable, with angled eyepiece, fiber optic light transmission incorporated, with 2 lateral irrigation ports and 1 working channel 4 Fr., for use with instruments up to 4 Fr.
The following accessories are included in delivery:
Insertion Aid
Instrument Port with Sealing System and Quick Release Lock
LUER-Lock Tube Connector, male
LUER-Lock Tube Connector, with stopcock
Seal, package of 10
Cleaning Adaptor

27030 KBK  Pediatric Cysto-Urethroscope, 9.5 Fr., 6°, 1 step, 9.5-11 Fr., length 13 cm, autoclavable, with angled eyepiece, fiber optic light transmission incorporated, with 2 lateral irrigation ports and 1 working channel 6 Fr. for operating instruments 5 Fr.
The following accessories are included in delivery:
Insertion Aid
Instrument Port with Sealing System and Quick Release Lock
LUER-Lock Tube Connector, male
LUER-Lock Tube Connector, with stopcock
Seal, package of 10
Cleaning Adaptor

The entire KARL STORZ product portfolio for pediatric urology can be found in the main urology and Pediatric Surgery catalogs.
E.P.Si.T. – Endoscopic Pilonidal Sinus Treatment

The pilonidal sinus is an acute or chronic inflammatory process in the subcutaneous adipose tissue, often occurring in the sacrococcygeal region. E.P.Si.T. – Endoscopic Pilonidal Sinus Treatment – proceeds in two phases. In the first – diagnostic – phase, the sinus cavity and the sinus tracts are examined. The aim of the second – therapeutic – phase is to ablate the abscess cavity and to eliminate the fistula. Both phases are performed under direct endoscopic control.

Special Features:

- E.P.Si.T. can be performed in an outpatient setting
- Ablation of the abscess cavity and elimination of the fistula under direct vision
- High patient satisfaction
- Straightforward, safe, effective and reproducible method of treatment
- Instruments can also be used to treat anal fistulas (VAAFT technique)
Highlights PEDIATRICS | 2-2018

Fistulectomy Set,
including:
Fistuloscope 8°, angled eyepiece, outer diameter 3.3 x 4.7 mm, working length 18 cm, autoclavable, with straight working channel for instruments up to diameter 2.5 mm, fiber optic light transmission incorporated, color code: green
Handle
Obturator
Wire Tray for Cleaning, Sterilization and Storage
Sealing Cap “Endoscopic Seal”, sterile, package of 10

Sealing Cap “Endoscopic Seal”, for working channels of 4-10 Fr. instruments, sterile, for single use, package of 10

Coagulation Electrode, unipolar, for fistulectomy, 7 Fr., length 53 cm

Fistula Brush,
including:
3-ring Handle
Outer Sheath
Fistula Brush Insert, outer diameter 4 mm, unsterile, for single use
Fistula Brush Insert, outer diameter 4.5 mm, unsterile, for single use
Fistula Brush Insert, outer diameter 5 mm, unsterile, for single use

CLICKLINE REDDICK-OLSEN Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, size 2 mm, length 30 cm
including:
Plastic Handle, without ratchet, with larger contact area at the finger ring
Outer Sheath, with working insert

Sources:
1 AWMF Summary of the S3 Guidelines 081/009: Sinus pilonidalis
2 Endoscopic Pilonidal Sinus Treatment: A Prospective Multicentre Trial. P. Meinero et al., 2016
3 Endoscopic Pilonidal Sinus Treatment, Giarratano G et al., 2017

To view the application video, please scan the QR code
It is recommended to check the suitability of the product for the intended procedure prior to use.