Highlights 2019
Gastroenterology
The KARL STORZ SILVER SCOPE® Series

The KARL STORZ SILVER SCOPE® series combines advanced technology, ergonomics, and durability to create a video endoscope that sets new standards. The product line offers three gastoscopes of different diameters, starting with the very small diameter slim gastroscope for transnasal insertion and for patients with stenoses. With its standard working channel and reduced outer diameter, the medium gastroscope is suitable for routine and pediatric use. The standard gastroscope is a reliable tool for daily routine and for interventions.

This innovative duodenoscope has now been further enhanced. The endoscopist can attach an Albarran module which is supplied sterile. With the HYDOME™ system, the SILVER SCOPE® duodenoscope thus sets standards in hygiene and considerably reduces ERCP-related risks.

In colonoscopy, KARL STORZ offers an excellent selection of lengths, from the 40 cm long rectoscope to the 160 cm long colonoscope. The graduated rigidity and progressive insertion characteristics of the colonoscope insertion tube optimize advancement and improve patient safety. Reduced diameter endoscopes can be individually used in routine procedures and are also perfect for pediatric use. Various flexibilities are available as well for all working styles.

All endoscopes of the SILVER SCOPE® series offer the following characteristics:

- Three innovative visualization technologies for easy tissue differentiation:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA*: Spectral color shift and color exchange
- Homogeneous image brightness, even under difficult lighting conditions
- LED illumination with the CO₂MBI® LED light source
- Air and CO₂ insufflation available
- Six functions on three individually programmable function keys
- Large deflection range for a complete view
- Full upward and downward compatibility with KARL STORZ video processors and light sources
- Fatigue-free working, even on long interventions
- With the endoscopes of the SILVER SCOPE® series, we recommend using the camera platform IMAGE1 S™ and the light source CO₂MBI® LED. Optimal component compatibility ensures the highest image quality and multiple visualization options.

* SPECTRA: Not for sale in the U.S.
Flexible SILVER SCOPE® Gastroscopes

The flexible routine gastroscope

- The routine gastroscope is a reliable instrument for everyday use in gastroenterology. The 2.8 mm working channel allows the use of all instruments for diagnosis and intervention.
- Excellent deflection up to 210°

The medium gastroscope for standard and pediatric use

- Elegant 7.8 mm outer diameter with 2.8 mm working channel
- Also suitable for pediatric applications
- Excellent deflection up to 210°

The slim gastroscope for pediatric use and in case of stenoses

- Very slender sheath with 5.9 mm outer diameter and a 2.0 mm working channel
- Particularly well suited for examinations in very young patients and patients with stenoses
- Excellent deflection up to 210°
### Flexible Video Gastroscopes

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Sheath outer diameter</th>
<th>Working channel diameter</th>
<th>Max. deflection up/down</th>
<th>Max. deflection left/right</th>
<th>Working length</th>
<th>Direction of view</th>
</tr>
</thead>
<tbody>
<tr>
<td>13821 PKSK/NKSK</td>
<td>Routine Gastroscope</td>
<td>9.3 mm</td>
<td>2.8 mm</td>
<td>210°/100°</td>
<td>120°/120°</td>
<td>1100 mm</td>
<td>0°</td>
</tr>
<tr>
<td>13823 PKSK/NKSK</td>
<td>Medium Gastroscope</td>
<td>7.8 mm</td>
<td>2.8 mm</td>
<td>210°/100°</td>
<td>120°/120°</td>
<td>1100 mm</td>
<td>0°</td>
</tr>
<tr>
<td>13820 PKSK/NKSK</td>
<td>Slim Gastroscope</td>
<td>5.9 mm</td>
<td>2 mm</td>
<td>210°/100°</td>
<td>120°/120°</td>
<td>1100 mm</td>
<td>0°</td>
</tr>
</tbody>
</table>

*To clean endoscopes 13821 PKSK/NKSK and 13823 PKSK/NKSK, the following brush is recommended:*

110952-50* Cleaning Brush, with double-sided brush, length 250 cm, brush diameter 3.2 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 2.6-3 mm

*To clean endoscopes 13820 PKSK/NKSK, the following brush is recommended for the working/suction channel in the insertion tube:*

110942-50* Cleaning Brush, with double-sided brush, length 160 cm, brush diameter 2.6 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 2-2.3 mm

*To clean the suction channel in the insertion tube, the following brush is recommended:*

110962-50* Cleaning Brush, with double-sided brush, length 230 cm, brush diameter 4.5 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 3.2-4.2 mm

*
Interventional Gastroscope with Two Working/Suction Channels

- For interventional and emergency gastroscopy
- Two working channels, 2.8 mm and 3.8 mm in diameter, with slender insertion sheath
- Additional water jet channel with Luer-Lock connector
- Simultaneous working and suction
- Complex procedures can be performed with two instruments simultaneously
- New suction valve with the choice of three suction options:
  - Suction through the 3.8 mm channel
  - Suction through the 2.8 mm channel
  - Simultaneous suction through both channels for maximum suction performance
Interventional Gastroscope with Double Channel

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gastroscope with Sheath</td>
<td>Outer diameter: 12 mm</td>
</tr>
<tr>
<td>Water Jet Channel</td>
<td>Working channel diameter: 3.8 mm and 2.8 mm</td>
</tr>
<tr>
<td></td>
<td>Max. deflection up/down: 210°/100°</td>
</tr>
<tr>
<td></td>
<td>Max. deflection left/right: 120°/120°</td>
</tr>
<tr>
<td></td>
<td>Working length: 1100 mm</td>
</tr>
<tr>
<td></td>
<td>Direction of view: 0°</td>
</tr>
</tbody>
</table>

With the endoscope, we recommend using the camera platform IMAGE1 S™ and the light source CO2MBI® LED. Optimal component compatibility ensures the highest image quality and multiple visualization options.

The following brushes are recommended for cleaning the Interventional Gastroscope 13826 PKSK/NKSK:

110962-50* Cleaning Brush, with double-sided brush, length 230 cm, brush diameter 4.5 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 3.2-4.2 mm

110952-50* Cleaning Brush, with double-sided brush, length 250 cm, brush diameter 3.2 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 2.6-3 mm

The following brushes are recommended for brushing the water jet channel of the Interventional Gastroscope 13826 PKSK/NKSK

110920-10* Biofilm Removal Device Cleaning Brush, flocked, length 200 cm, unsterile, for single use, package of 10, for use with flexible endoscopes with a working channel diameter of 1.2 mm

110932-50* Cleaning Brush, length 200 cm, brush diameter 1.7 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 1.2-1.5 mm

Further products can be found on the KARL STORZ website.
The Innovative HyDOME™ Duodenoscopy System:
The Answer to Therapeutic and Hygiene Challenges

- Optimal reprocessing ensured through close collaboration with leading international hygiene institutes
- The HYDOME™ system with the single-use Albarran module significantly raises hygiene standards in ERCP
- Hygiene risks are minimized
- The single-use Albarran module features a robust design and is supplied in sterile packaging
- Secure positioning with just one click
- The combination of an Albarran channel that is easily accessible for cleaning with brushes and the sterile Albarran module makes this system unique
- Neither the Albarran lever nor the pull wire pose a risk of cross-contamination
- Efficient duodenoscope working channel of 4.2 mm
13885 PKSK/NKS
Duodenoscope

**Flexible Video Duodsonoscope**
- Sheath outer diameter: 12.6 mm
- Working channel diameter: 4.2 mm
- Max. deflection up/down: 120°/90°
- Max. deflection left/right: 90°/110°
- Working length: 1260 mm
- Direction of view: 5° retro

110980-05*
**Albarran Module**, sterile, for single use, package of 5, for use with SILVER SCOPE® Duodenoscopes 13885 PKS/NKS

**The following brushes are recommended for cleaning the duodenoscope**

110962-50*
**Cleaning Brush**, with double-sided brush, length 230 cm, brush diameter 4.5 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 3.2-4.2 mm

110920-10*
**Biofilm Removal Device Cleaning Brush**, flocked, length 200 cm, unsterile, for single use, package of 10, for use with flexible endoscopes with a working channel diameter of 1.2 mm

110932-50*
**Cleaning Brush**, length 200 cm, brush diameter 1.7 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 1.2-1.5 mm
Flexible SILVER SCOPE® Colonoscopes

- Three innovative visualization technologies for easy tissue differentiation:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA*: Spectral color shift and color exchange
- Homogeneous image brightness, even under difficult lighting conditions
- Available in two working lengths and with two insertion characteristics
- Excellent deflection, tight radius
- Water jet channel in colonoscopes with a working length of 1600 mm
- Possible to clean water jet channel with a brush

* SPECTRA: Not for sale in the U.S.
### Flexible Video Colonoscope

<table>
<thead>
<tr>
<th>13924 PKSK/NKSK</th>
<th>Routine Colonoscope</th>
<th>Sheath outer diameter:</th>
<th>12.9 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Working channel diameter:</td>
<td>3.8 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. deflection up/down:</td>
<td>180°/180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. deflection left/right:</td>
<td>160°/160°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Working length:</td>
<td>1400 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direction of view:</td>
<td>0°</td>
</tr>
</tbody>
</table>

### Flexible Video Colonoscope

<table>
<thead>
<tr>
<th>13925 PKSK/NKSK</th>
<th>Routine Colonoscope with Water Jet Channel</th>
<th>Sheath outer diameter:</th>
<th>12.9 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Working channel diameter:</td>
<td>3.8 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. deflection up/down:</td>
<td>180°/180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. deflection left/right:</td>
<td>160°/160°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Working length:</td>
<td>1600 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direction of view:</td>
<td>0°</td>
</tr>
</tbody>
</table>

The following brushes are recommended for cleaning the water jet channel of Colonoscopes 13925 PKSK/NKSK:

1. **Biofilm Removal Device Cleaning Brush**, flocked, length 200 cm, unsterile, for single use, package of 10, for use with flexible endoscopes with a working channel diameter of 1.2 mm
2. **Cleaning Brush**, length 200 cm, brush diameter 1.7 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with a working channel diameter of 1.2-1.5 mm

Further products can be found on the KARL STORZ website.
Slim Colonoscopes, also Suitable for Pediatric Applications

- Elegant 11.2 mm outer diameter with 3.4 mm working channel
- Enhanced endoscope flexibility for greater patient comfort
- Excellent deflection up to 210°
- Three innovative visualization technologies for easy tissue differentiation:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA*: Spectral color shift and color exchange
- CO₂ insufflation prevents postoperative pain
- Possible to clean water jet channel with a brush
- Available in three different lengths

* SPECTRA: Not for sale in the U.S.
Flexible Video Sigmoidoscope, with reduced outer diameter

Sheath outer diameter: 11.2 mm
Working channel diameter: 3.4 mm
Max. deflection up/down: 210°/180°
Max. deflection left/right: 160°/160°
Working length: 800 mm
Direction of view: 0°

Flexible Video Colonoscope, with reduced outer diameter

Sheath outer diameter: 11.2 mm
Working channel diameter: 3.4 mm
Max. deflection up/down: 210°/180°
Max. deflection left/right: 160°/160°
Working length: 1330 mm
Direction of view: 0°

Flexible Video Colonoscope, with reduced outer diameter

Sheath outer diameter: 11.2 mm
Working channel diameter: 3.4 mm
Max. deflection up/down: 210°/180°
Max. deflection left/right: 160°/160°
Working length: 1530 mm
Direction of view: 0°

We recommend the use of the IMAGE1 S™ camera platform and the CO₂MBI® LED light source with the endoscope.

The following brushes are recommended for cleaning the slim colonoscopes and the sigmoidoscope

Cleaning Brush, with double-sided brush, length 230 cm, brush diameter 4.5 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 3.2-4.2 mm

Biofilm Removal Device Cleaning Brush, flocked, length 200 cm, unsterile, for single use, package of 10, for use with flexible endoscopes with a working channel diameter of 1.2 mm

Cleaning Brush, length 200 cm, brush diameter 1.7 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 1.2-1.5 mm

Further products can be found on the KARL STORZ website.
KARL STORZ TROIDL SILVER SCOPE® Flexible Rectoscope

The flexible TROIDL SILVER SCOPE® rectoscope combines the fundamental advantages of flexible endoscopy with the application possibilities of rectoscopy.

Special Features:

- Working length of 40 cm ensures easy handling
- Up to 210° inversion improves visualization and, consequently, diagnostic and therapeutic options thanks to forward and retrograde viewing
- Field of application especially suited for surgical conditions and procedures in the rectal area
- Fatigue-free work thanks to ergonomically shaped control unit
- Possibility to combine rigid and flexible endoscopy thanks to modular IMAGE1 S™ camera platform
TROIDL Rectoscope,
Sheath outer diameter: 11.8 mm
Working channel diameter: 3.4 mm
Max. deflection up/down: 210°/100°
Max. deflection left/right: 120°/120°
Working length: 400 mm
Direction of view: 0°

The following brush is recommended for cleaning the rectoscope

110962-50* Cleaning Brush, with double-sided brush, length 230 cm, brush diameter 4.5 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 3.2-4.2 mm

Further products can be found on the KARL STORZ website.
IMAGE1 S™ – As Individual as your Requirements

IMAGE1 S™ is the core technology of the KARL STORZ gastroenterology system: Efficient, innovative and brilliant. Through color adjustments, the image quality has been tailored to the special needs in gastroenterology. Combining the camera and light source via the KARL STORZ Communication Bus (SCB) guarantees consistent, optimal illumination of both deep spaces and the near range.

- Modular system for both flexible and rigid endoscopy
- Three innovative visualization technologies for easy tissue differentiation:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA*: Spectral color shift and color exchange
- Side-by-side view allows real-time comparison of the white light image and visualization modes
- Automatic light source control
- Multiple source management: Simultaneous control, display, documentation of image information from two connected image sources (e.g., for hybrid interventions)

* SPECTRA: Not for sale in the U.S.
The following components are recommended for use with the IMAGE1 S™ system in gastroenterology

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC 200EN*</td>
<td>IMAGE1 S CONNECT®, connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>TC 301</td>
<td>IMAGE1 S™ X-LINK, link module, for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC 200EN</td>
<td></td>
</tr>
<tr>
<td>TC 013</td>
<td>IMAGE1 S™ Video Endoscope Adaptor 90°, color systems PAL/NTSC, angled 90°, length 50 cm, for use with IMAGE1 S™ X-LINK TC 301</td>
<td></td>
</tr>
<tr>
<td>TC 009</td>
<td>USB Adaptor, for ACC 1 and ACC 2, for use in conjunction with IMAGE1 S CONNECT® and AIDA® HD</td>
<td></td>
</tr>
</tbody>
</table>

For use with the aforementioned video gastroscopes, video colonoscopes and the video duodenoscope.

* Also available in the following languages: DE, ES, FR, IT, PT, RU
CO₂mbi® LED Cold Light Fountain

- Two-in-one solution combines an LED light source and air/CO₂ insufflator in one unit
- Long LED module service life provides significant cost reductions
- Manually adjustable light intensity
- Optimal light yield with high-efficiency LED
- CO₂ insufflation for greater patient comfort
- Choice of three insufflation modes: 100% CO₂ mode, regular room air, air/CO₂ mode
- Integrated pump with two power levels for rapid insufflation
- Display with interactive icons
- Touch screen can also be controlled with wet gloves
The following components are recommended for use with CO₂MBI® LED

TL 100S1  Cold Light Fountain CO₂MBI® LED SCB, with high-performance LED, integrated KARL STORZ-SCB and integrated insufflation pump for air and CO₂ insufflation, for use with KARL STORZ video endoscopes, power supply 100-240 VAC, 50/60 Hz including:
  - Irrigation Bottle Holder
  - Holding Ring, for water bottles
  - Water Bottle
  - Irrigation Adaptor, for water bottles
  - SCB Connecting Cable
  - Universal Wrench

For CO₂ supply, one of the following tubes must be selected

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Connection</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>20400021</td>
<td>CO₂ High Pressure Tube</td>
<td>American/German connection</td>
<td>55 cm</td>
</tr>
<tr>
<td>20400027</td>
<td>CO₂ High Pressure Tube</td>
<td>American/German connection</td>
<td>102 cm</td>
</tr>
<tr>
<td>20400022</td>
<td>CO₂ High Pressure Tube</td>
<td>American/Pin-Index connection</td>
<td>55 cm</td>
</tr>
<tr>
<td>20400028</td>
<td>CO₂ High Pressure Tube</td>
<td>American/Pin-Index connection</td>
<td>102 cm</td>
</tr>
<tr>
<td>20400222</td>
<td>CO₂ High Pressure Tube</td>
<td>American/ISO connection</td>
<td>102 cm</td>
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<tr>
<td>UI 001</td>
<td>Low Pressure Tube</td>
<td></td>
<td>150 cm</td>
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<tr>
<td>UI 002</td>
<td>Low Pressure Tube</td>
<td></td>
<td>300 cm</td>
</tr>
<tr>
<td>UI 003</td>
<td>Low Pressure Tube</td>
<td></td>
<td>600 cm</td>
</tr>
</tbody>
</table>

For use with the aforementioned video gastroscopes, video colonoscopes and the video duodenoscope.
TELE PACK X GI

- Portable all-in-one system combines a monitor, video processor, LED light source, documentation unit and insufflation pump in one unit
- The high level of integration provides flexibility and independence
- For use in the emergency room, intensive care unit and outpatient settings, e.g., in nursing homes/rehab
- Compatible with all current KARL STORZ gastro-, colono- and duodenoscopes
- A light cable adaptor allows the unit to be used with rigid endoscopes
- Network function can be integrated as a software update in all inventory systems
The following components are recommended for use with the TELE PACK X GI in gastroenterology

TP 200EN*  TELE PACK X GI, endoscopic video unit for use with all KARL STORZ TELECAM one-chip camera heads and video endoscopes, with integrated insufflation pump, incl. LED light source similar to Xenon technology, with integrated digital Image Processing Module, 15” LCD TFT monitor with LED backlight, USB/SD memory module, color systems PAL/NTSC, power supply 100-240 VAC, 50/60 Hz

including:
- **Water Bottle**
- **Irrigation Adaptor**, for water bottle
- **USB Silicone Keyboard**, with touchpad, US-English character set
- **USB Flash Drive**, 32 GB
- **SD Card**, 32 GB
- **Mains Cord**, length 300 cm

20 2130 70  **Video Connecting Cable**, for use between KARL STORZ video endoscopes and TELECAM camera control units or TELE PACK video units

For use with the aforementioned video gastrosopes, video colonoscopes and the video duodenoscope.

* Also available in the following languages: DE, ES, FR, IT, PT, RU
AUTOCON® III ARGON

Module for argon-enhanced surgery

The AUTOCON® III ARGON module, in conjunction with the AUTOCON® III 300 or AUTOCON® III 400 HF generators, offers the possibility of argon-enhanced surgery for non-contact coagulation and cutting. In combination with the AUTOCON® III high frequency generator, an electrical plasma beam is produced that is particularly well suited for the targeted coagulation of large-scale bleeding.

Benefits at a glance:

- Fast and non-contact coagulation of large-scale surfaces without tissue adhesion to the electrode and with optimal protection against perforation
- Easy connectivity to the AUTOCON® III 300 and AUTOCON® III 400 generators provides maximum user comfort thanks to high-resolution touch display
- Clear visibility and less odor nuisance due to smoke-free coagulation
UH 500  AUTOCON® III ARGON, power supply 100-240 VAC, 50/60 Hz  
including:  
Mains Cord  
Unit Connecting Cable  

UH 570  Connecting Cable for Flexible Argon Probes, length 250 cm, with RFID coding system, for KARL STORZ AUTOCON® III ARGON in conjunction with AUTOCON® III 300 or AUTOCON® III 400  

UH 565  Gas Filter, with male and female LUER-Locks, sterile, for single use, package of 50, for use with AUTOCON® III ARGON  

UH 551  Argon Pressure Reducer Tube, DIN 477 No. 10, connection suitable for the following countries: Germany, Netherlands, Northern Europe, for use with AUTOCON® III ARGON  

UH 552  Argon Pressure Reducer Tube, CGA No. 580, connection suitable for the following countries: America, Far East, Italy, UAE, for use with AUTOCON® III ARGON  

UH 553  Argon Pressure Reducer Tube, BS 341 No. 3, connection suitable for the following countries: Commonwealth, Turkey, for use with AUTOCON® III ARGON  

UH 400  AUTOCON® III 400 High-End, power supply 220-240 VAC, 50/60 Hz,  
including:  
Mains Cord  

UH 400 U  Same, power supply 100-127 VAC, 50/60 Hz  

UH 300  AUTOCON® III 300, power supply 220-240 VAC, 50/60 Hz  
including:  
Mains Cord  

UH 300 U  Same, power supply 100-127 VAC, 50/60 Hz  

UF 902  Two-Pedal HF Footswitch, with button for switchover function, for use with HF generators  

UF 901  One-Pedal HF Footswitch, with button for switchover function, for use with HF generators  

27805  Neutral Electrode, made of conductive silicone, with 2 rubber ties for fastening  

27806 UR  Neutral Electrode Connecting Cable, for use with Neutral Electrode 27805  

27802  Neutral Electrode, contact surface divided into two, $A = 169 \text{ cm}^2$, for single use, package of 50  

27806 US  Neutral Electrode Connecting Cable, for use with Neutral Electrode 27802  

Argon gas must be readily available in order to perform argon-assisted surgery.
Flexible Accessories and Instruments for Diagnostic and Therapeutic Use in Gastroenterological Endoscopy

MTP-brand KARL STORZ products

KARL STORZ offers a wide range of single-use products for daily use in gastroenterology.

- Standard papillotomes as well as dual-lumen and triple-lumen papillotomes for any user preference. Triple-lumen papillotomes for the use of guide wires and the application of contrast agents in separate channels
- Biopsy forceps with sheath to reduce frictional resistance in the channel and to protect the channel entrance
- Biopsy forceps without spike for optimal tissue yield
- Biopsy forceps with spike for better grip in hard-to-access areas, such as in case of esophageal stricture
The following instruments (selection) are recommended for use with KARL STORZ endoscopes.

For gastroscopy with channels as of diameter 2.8 mm (selection) each offered in packages of 10

- Biopsy Forceps, with oval jaws and spike, working length 180 cm, sterile, for single use
- Biopsy Forceps, with oval jaws, working length 180 cm, sterile, for single use
- Biopsy Forceps, with oval jaws and spike, coated, working length 180 cm, sterile, for single use
- Injection Needle, in plastic tube, needle diameter 0.7 mm, needle length 6 mm, working length 180 cm, sterile, for single use
- Injection Needle, in plastic tube, needle diameter 0.9 mm, needle length 6 mm, working length 180 cm, sterile, for single use
- Grasping Forceps Pelican Type, with large opening angle, working length 180 cm, sterile, for single use
- Grasping Forceps Rat Tooth Type, working length 160 cm, sterile, for single use
- Grasping Forceps Rat Tooth Type with Alligator Jaws, working length 160 cm, sterile, for single use

For colonoscopy (selection): each offered in packages of 10

- Biopsy Forceps, with oval jaws and spike, working length 230 cm, sterile, for single use
- Biopsy Forceps, with oval jaws, working length 230 cm, sterile, for single use
- Biopsy Forceps, with oval jaws and spike, coated, working length 230 cm, sterile, for single use
- Injection Needle, in plastic tube, needle diameter 0.7 mm, needle length 6 mm, working length 230 cm, sterile, for single use
- Oval Polypectomy Snare, diameter 30 mm, working length 230 cm, KARL STORZ HF connector, sterile, for single use
- Asymmetric Polypectomy Snare, diameter 25 mm, working length 230 cm, standard HF connector, sterile, for single use

For ERCP: each offered in packages of 5

- Papillotome, filiform, single lumen, cutting wire length 25 mm, including handle, working length 200 cm, standard HF connector, sterile, for single use, for use with flexible endoscopes with working channels as of diameter 2.2 mm
- Papillotome, filiform, double lumen, cutting wire length 20 mm, for guide wire 0.035”, including handle, working length 200 cm, standard HF connector, sterile, for single use, for use with flexible endoscopes with working channels as of diameter 2.8 mm
- Papillotome, filiform, triple lumen, cutting wire length 20 mm, for guide wire 0.035”, including handle, working length 200 cm, standard HF connector, sterile, for single use, for use with flexible endoscopes with working channels as of diameter 2.8 mm
- ERCP Stone Basket, double lumen, working length 210 cm, sterile, for single use, package of 10

Further products can be found on the KARL STORZ website.
Argon Plasma Coagulation Probe

For non-contact and safe coagulation of tissue

- Non-contact transmission of HF current to the tissue using argon plasma
- Efficient and targeted coagulation of large-scale bleeding
- No adhesion of tissue particles to the electrode
- Significantly lower risk of perforating thin-walled organs as the penetration depth of the HF current is limited to max. 3 mm and vaporization does not occur
- The avoidance of surgical smoke generation ensures clear visualization and prevents odor formation
- The APC probe can be used in conjunction with the AUTOCON® III ARGON module as well as the AUTOCON® III 300 and AUTOCON® III 400 HF generators
110264-10* **APC Probe**, for argon plasma coagulation, unipolar, axial, working length 300 cm, sterile, for single use, package of 10, for use with flexible endoscopes with working channels as of diameter 1.8 mm

110265-10* **APC Probe**, for argon plasma coagulation, unipolar, axial, working length 220 cm, sterile, for single use, package of 10, for use with flexible endoscopes with working channels as of diameter 2.8 mm

110268-10* **APC Probe**, for argon plasma coagulation, unipolar, lateral, working length 220 cm, sterile, for single use, package of 10, for use with flexible endoscopes with working channels as of diameter 2.8 mm

110266-10* **APC Probe**, for argon plasma coagulation, unipolar, axial, working length 300 cm, sterile, for single use, package of 10, for use with flexible endoscopes with working channels as of diameter 2.8 mm

UH 500  **AUTOCON® III ARGON**, power supply 100-240 VAC, 50/60 Hz, including mains cord and unit connecting cable

UH 570  **Connecting Cable for Flexible Argon Probes**, length 250 cm, with RFID coding system, for KARL STORZ AUTOCON® III ARGON

UH 565  **Gas Filter**, with male and female Luer-locks, sterile, for single use, package of 50, for use with AUTOCON® III ARGON

UH 551  **Argon Pressure Reducer Tube**, connection suitable for the following countries: Germany, Netherlands and Northern Europe, for use with AUTOCON® III ARGON

UH 552  **Same**, connection suitable for the following countries: America, Far East, Italy and UAE

UH 553  **Same**, connection suitable for the following countries: Commonwealth and Turkey

UH 400  **AUTOCON® III 400 High-End**, power supply 220-240 VAC, 50/60 Hz, including mains cord

UH 400U  **Same**, power supply 100-127 VAC, 50/60 Hz

UH 300  **AUTOCON® III 300**, power supply 220-240 VAC, 50/60 Hz, including mains cord

UH 300U  **Same**, power supply 100-127 VAC, 50/60 Hz

UF 902  **Two-Pedal HF Footswitch**, with button for switchover function, for use with HF generators

UF 901  **One-Pedal HF Footswitch**, with button for switchover function, for use with HF generators

27805  **Neutral Electrode**, made of conductive silicone, with 2 rubber ties for fastening

27806 UR  **Neutral Electrode Connecting Cable**, for use with Neutral Electrode 27805

27802  **Neutral Electrode**, contact surface divided into two, $A = 169$ cm$^2$, for single use, package of 50

27806 US  **Neutral Electrode Connecting Cable**, for use with Neutral Electrode 27802

*Argon gas must be readily available in order to perform argon-assisted surgery.
The New Cleaning Brush Range for Single Use

The perfect match: Custom-fit brushes for all endoscope sizes

This new, innovative portfolio offers single-use cleaning brushes that are custom-fit for all working channel lengths and diameters. Consequently, excellent cleaning results and greater patient safety is guaranteed.

The most important product features at a glance:

- Enhanced hygiene safety
  - Brush surface larger than conventional cleaning brushes
  - Innovative brush filament design for the removal of both coarse and fine impurities lowers risk of biofilm formation
- Thin-lumen cleaning brushes feature two proximal but no distal brush heads to make insertion through the working channel easier
- Working channel-friendly product design
The following cleaning brushes for flexible endoscopes feature 3 proximally mounted brush elements:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Description</th>
<th>Working channel diameter</th>
<th>Length of brush</th>
</tr>
</thead>
<tbody>
<tr>
<td>110930-50*</td>
<td>Cleaning Brush, brush diameter 1.7 mm, unsterile, for single use, package of 50</td>
<td>1.2-1.5 mm</td>
<td>90 cm</td>
</tr>
<tr>
<td>110931-50*</td>
<td></td>
<td>1.2-1.5 mm</td>
<td>125 cm</td>
</tr>
<tr>
<td>110932-50*</td>
<td></td>
<td>1.2-1.5 mm</td>
<td>200 cm</td>
</tr>
<tr>
<td>110920-10*</td>
<td>Biofilm Removal Device Cleaning Brush, flocked, unsterile, for single use, package of 10</td>
<td>1.2 mm</td>
<td>200 cm</td>
</tr>
</tbody>
</table>

The following cleaning brushes for flexible endoscopes feature 1 distally and 2 proximally mounted brush elements:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Description</th>
<th>Working channel diameter</th>
<th>Length of brush</th>
</tr>
</thead>
<tbody>
<tr>
<td>110940-50*</td>
<td>Cleaning Brush, with double-sided brush, brush diameter 2.6 mm, unsterile, for single use, package of 50</td>
<td>2.0-2.3 mm</td>
<td>90 cm</td>
</tr>
<tr>
<td>110941-50*</td>
<td></td>
<td>2.0-2.3 mm</td>
<td>120 cm</td>
</tr>
<tr>
<td>110942-50*</td>
<td></td>
<td>2.0-2.3 mm</td>
<td>160 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Description</th>
<th>Working channel diameter</th>
<th>Length of brush</th>
</tr>
</thead>
<tbody>
<tr>
<td>110950-50*</td>
<td>Cleaning Brush, with double-sided brush, brush diameter 3.2 mm, unsterile, for single use, package of 50</td>
<td>2.6-3.0 mm</td>
<td>120 cm</td>
</tr>
<tr>
<td>110951-50*</td>
<td></td>
<td>2.6-3.0 mm</td>
<td>165 cm</td>
</tr>
<tr>
<td>110952-50*</td>
<td></td>
<td>2.6-3.0 mm</td>
<td>250 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Description</th>
<th>Working channel diameter</th>
<th>Length of brush</th>
</tr>
</thead>
<tbody>
<tr>
<td>110960-50*</td>
<td>Cleaning Brush, with double-sided brush, brush diameter 4.5 mm, unsterile, for single use, package of 50</td>
<td>3.2-4.2 mm</td>
<td>140 cm</td>
</tr>
<tr>
<td>110961-50*</td>
<td></td>
<td>3.2-4.2 mm</td>
<td>190 cm</td>
</tr>
<tr>
<td>110962-50*</td>
<td></td>
<td>3.2-4.2 mm</td>
<td>230 cm</td>
</tr>
</tbody>
</table>
Imaging and OR Integration

KARL STORZ OR1™
Future-oriented integration meets innovative data management

KARL STORZ SE & Co. KG, Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany
www.karlstorz.com
Further information and an overview of Gastroenterology products from KARL STORZ can be viewed on www.karlstorz.com in the Human Medicine section, Gastroenterology.