

## IMAGE1 S™ Camera System



TC201EN\*

**IMAGE1 S CONNECT® II**, connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ SCB or KS HIVE and digital image processing module, power supply 100 – 240 VAC, 50/60 Hz, including:

**Mains Cord**, length 300 cm  
**DVI-D Connecting Cable**, length 300 cm  
**DisplayPort Cable**, length 300 cm  
**SDI Cable**, length 300 cm  
**SCB Connecting Cable**, length 100 cm  
**USB Flash Drive**, 32 GB  
**USB Silicone Keyboard**, with touchpad, US

\* **Available in the following languages:** DE, ES, FR, IT, PT, RU  
 Please specify the desired language when placing your order.

### Technical Specifications

Video outputs	2x Display Port 1.2, 1x 12G/3G-SDI, 1x DVI-D
Format of signal outputs	max. 3840 x 2160p, 50/60 Hz
Link video inputs	3x
USB interface	4 x USB, (2x front, 2x rear)
Unit communication	1 x 6-pin Mini-DIN

Power supply	200–240 VAC
Power frequency	50/60 Hz
Protection class / degree	1 / CF-Defib
Dimensions (w x h x d)	305 x 54 x 320 mm
Weight	3.1 kg

### For use with IMAGE1 S CONNECT® II Module TC201EN



TC304

**IMAGE1 S 4U-LINK**, link module, for use with IMAGE1 S™ 4U camera heads, power supply 100 – 240 VAC, 50/60 Hz, including:

**Mains Cord**, length 300 cm  
**Link Cable**, length 20 cm, for use with IMAGE1 S CONNECT® TC200EN or IMAGE1 S CONNECT® II TC201EN

### Technical Specifications

Interfaces	1x link output
Power consumption	86 VA
Power frequency	50/60 Hz
Power supply	200–240 VAC
Dimensions (B x H x T)	305 x 54 x 320 mm

Weight	1,86 kg
Cleaning	wipe disinfection
Degree of ingress protection	IPX0
Protection class / degree	1 / CF-Defib

**IMAGE1 S™**

Camera Head 4U One-Chip 4K UHD and Camera Head 4U RUBINA Two-Chip 4K UHD



**IMAGE1 S™ 4U One-Chip 4K UHD camera head, for use with TC304, IMAGE1 S 4U-LINK, module for 4K endoscopy**



TH120

**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**, S-technologies available, progressive scan, soakable, EtO sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK

**Technical Specifications**

Frame rate	50 / 60 Hz
Image sensor	One-chip
Resolution	3840 x 2160 pixels
Scanning mode	progressive scan
Lens	fixed focus
Focal length	f = 18 mm
Dimensions (w x h x l)	46 x 37 x 133 mm
Weight	210 g

Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EtO sterilization, H <sub>2</sub> O <sub>2</sub> (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA*
Degree of protection	in conjunction with camera control unit IMAGE1S™: CF-Defib

\* SPECTRA A / SPECTRA B: **Not for sale in the U.S.A.**

**IMAGE1 S™ 4U RUBINA, OPAL1® NIR/ICG, Two-Chip 4K UHD Camera Head for use with TC201EN, IMAGE1 S CONNECT® II and TC304, IMAGE1 S 4U-LINK, module for 4K endoscopy**



TH121

**IMAGE1 S™ 4U RUBINA, OPAL1® NIR/ICG, Two-Chip 4K UHD Camera Head**, S-technologies available, for NIR/ICG fluorescence imaging in combination with Power LED RUBINA, OPAL1® NIR/ICG, progressive scan, soakable, EtO sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S 4U-LINK

**Technical Specifications**

Frame rate	50 / 60 Hz
Image sensor	Two-chip
Resolution	3840 x 2160 pixels
Scanning mode	progressive scan
Lens	fixed focus
Focal length	f = 19 mm
Dimensions (w x h x l)	150 x 55 x 41 mm
Weight	260 g

Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EtO sterilization, H <sub>2</sub> O <sub>2</sub> (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA*
Degree of protection	in conjunction with camera control unit IMAGE1S™: CF-Defib

\* SPECTRA A / SPECTRA B: **Not for sale in the U.S.A.**



Item no: TL400

## Power LED RUBINA, OPAL1 NIR/ICG

Quantity:

– 1 +

[On the offer list](#)

### Scope of delivery

- 400A power cord, length 300 cm (1)
- 96240726 OPAL1 NIR/ICG Demo Card (1)
- WO10275 OR1 Patch Cable CAT6a 2.00m UL, blue (1)
- TL006 Synch Connecting Cable, 3.5mm, 100cm (1)

## Product details

### POWER LED Rubina® – The LED Light Source for White Light and NIR/ICG Applications

Power, efficiency, durability and flexibility are the hallmarks of the POWER LED Rubina® cold light source based on LED technology. The light source can be used for white light as well as fluorescence applications for displaying NIR/ICG or autofluorescence in the near infrared range.

- Laser-free LED light source for white light and NIR/ICG excitation
- OPAL1® NIR/ICG technology with new functionalities
- Min. 30,000 hours of lamp service life
- Straightforward user interface thanks to intuitive touch screen
- Constant light intensity throughout the entire service life
- Very low volume

### Technical details

### Documents & Films

### Product group / field of application

Fluorescence imaging (NIR/ICG)	Yes
Fluorescence imaging (Blue Light Imaging, BLI)	No
Control via touch screen	Yes
Illumination technology	LED
Average lamp service life	30000 h
Integrated pump for air insufflation	No
Color temperature approx.	5700 K
Unit communication KS HIVE®	Yes
Unit communication SCB	No
Light intensity adjustment	Automatic via HIVE and manual
Weight	7.4 kg
Width	305 mm
Height	120 mm
Depth	370 mm
Power supply	100 - 125 / 220 - 240 VAC
IP protection class	IPX0
Electrical protection class	Protection class 1
KARL STORZ light outlet	Yes
Power consumption	220 VA
Line frequency	50/60 Hz
Degree of safety	CF
Degree of safety with KARL STORZ light cables	CF-Defib
Wipe disinfection	Yes
Electrical protection class	I

# Fiber Optic Light Cables

for Cold Light Fountains



## Fiber Optic Light Cable with Straight Connector

- 495 NE **Fiber Optic Light Cable**, diameter 4.8 mm, length 300 cm
- 495 NCS **Fiber Optic Light Cable**, extremely heat-resistant, diameter 4.8 mm, length 250 cm
- NEW** 495 NCSC **Fiber Optic Light Cable**, extremely heat-resistant, with safety locking device, diameter 4.8 mm, length 250 cm
- 495 NB **Fiber Optic Light Cable**, diameter 4.8 mm, length 180 cm
- 495 ND **Fiber Optic Light Cable**, diameter 3.5 mm, length 300 cm
- 495 NA **Fiber Optic Light Cable**, diameter 3.5 mm, length 230 cm
- NEW** 495 NAC **Fiber Optic Light Cable**, with safety locking device, diameter 3.5 mm, length 230 cm
- 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- 495 NTA **Fiber Optic Light Cable**, diameter 2.5 mm, length 230 cm
- 495 NT **Fiber Optic Light Cable**, diameter 2.5 mm, length 180 cm
- NEW** 495 TIP **Fiber Optic Light Cable**, highly heat resistant, diameter 4.8 mm, length 300 cm, optimized for 3D TIPCAM<sup>®1</sup> and TIPCAM<sup>®</sup>



## Fiber Optic Light Cable with 90° Deflection to the Light Source

- 495 NWL **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 300 cm
- 495 NWM **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 230 cm
- 495 NW **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 180 cm
- 495 NTX **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 2.5 mm, length 230 cm
- 495 NTW **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 2.5 mm, length 180 cm



495 NVC



495 NV/NVL/NVB

## Fiber Optic Light Cable with 90° Deflection to the Instrument

- NEW** 495 NVC **Fiber Optic Light Cable**, with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm
- 495 NVB **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 4.8 mm, length 300 cm
- 495 NVL **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 3.5 mm, length 300 cm
- 495 NV **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 3.5 mm, length 230 cm



## Light Adaptor, angled 90°

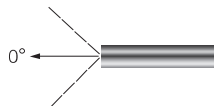
- 495 EW **Light Adaptor**, angled 90°, diameter 4.8 mm, free rotatable, to connect with standard telescopes

Adaptor for connecting KARL STORZ fiber optic light cables with endoscopes and light sources from other manufacturers, see page TP 132

# HOPKINS® RUBINA® Telescopes

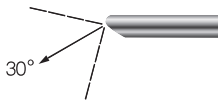
for fluorescence-assisted perfusion assessment with ICG

Diameter 10 mm, length 31 cm  
Trocar size 11 mm



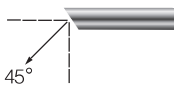
**26003ARA**

**HOPKINS® RUBINA® 0°**, NIR/ICG, straight forward telescope 0°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: green



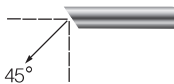
**26003BRA**

**HOPKINS® RUBINA® 30°**, NIR/ICG, forward-oblique telescope 30°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: red



**26003FRA**

**HOPKINS® RUBINA® 45°**, NIR/ICG, forward-oblique telescope 45°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: black



**26003FREA**

**HOPKINS® RUBINA® 45°**, NIR/ICG, forward-oblique telescope 45°, enlarged view, diameter 10 mm, length 42 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: black

## Recommended light cables for fluorescence-assisted perfusion assessment with ICG



**495NCSC**

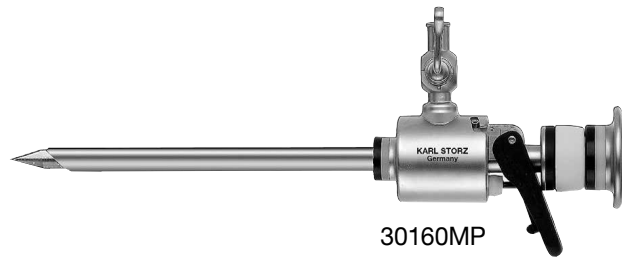
**Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm

**495NAC**

**Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm

## Trocars and Accessories

### Size 6 mm



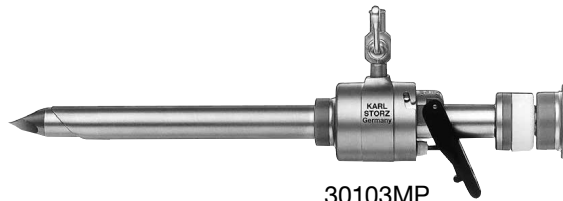
30160MP



30160MP

**Trocar**, with pyramidal tip, with insufflation stopcock, size 6 mm, working length 10.5 cm, color code: black, including:  
**Cannula**, without valve  
**Trocar only**  
**Multifunctional Valve**

### Size 11 mm



30103MP

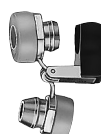
30103MP

**Trocar**, with pyramidal tip, with insufflation stopcock, size 11 mm, working length 10.5 cm, color code: green, including:  
**Cannula**, without valve  
**Trocar only**  
**Multifunctional Valve**



30140DB

**Reduction Sleeve**, reusable, instrument diameter 5 mm, trocar cannula outer diameter 11 mm, color code: green



30142HB




**Double Reducer**, 13/10 mm, 13.5/10 mm, 13/5 mm and 13.5/5 mm

# Trocars

Size 13.5 mm

For use with linear staplers



<b>Size:</b>	<b>13.5 mm</b>	
Working length:	11.5 cm	
Color code:	blue	
	<p><b>Trocar, with conical tip</b> including: <b>Cannula</b> <b>Trocar only</b> <b>Multifunctional Valve</b></p>	<p><b>30108 MC</b></p> <p>30108 H2 30108 C 30108 M1</p>
	<p><b>Trocar, with pyramidal tip</b> including: <b>Cannula</b> <b>Trocar only</b> <b>Multifunctional Valve</b></p>	<p><b>30108 MP</b></p> <p>30108 H2 30108 P 30108 M1</p>
	<p><b>Trocar, with blunt tip</b> including: <b>Cannula</b> <b>Trocar only</b> <b>Multifunctional Valve</b></p>	<p><b>30108 MA</b></p> <p>30108 H2 30108 A 30108 M1</p>

HEINKEL-SEMM **Dilation Set**, see page 78  
**Accessories for Trocars** see pages 76-77

# 30141RS



Products & Solutions

Customer Service

Online Catalog

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Item no: 30141RS

## Reducer

Quantity:

- 1 +

On the offer list

### Product details

Reducers, for use with trocars with valve seals

Technical details

Documents & Films

Product group / field of application

Type of usage	Reusable
Sterile	No
For instruments size	11 mm
For reduction of diameter	5 mm

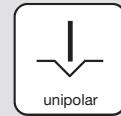
# Dissecting and Grasping Forceps

CLICK*line*® – rotating, dismantling, insulated, with connector pin for unipolar coagulation

## Size 5 mm

Operating instruments, lengths 30 and 36 cm, for use with trocars size 6 mm

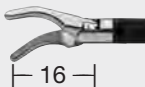
Operating instruments, length 43 cm, for use with telescopes with inbuilt working channel and trocars size 6 mm



Length	Handle					
	33151	33152	33153	33156	33121	33149
30 cm						
36 cm						
43 cm						

## Double action jaws

Working Insert	Complete Instrument					
33210 MD	33251 MD	33252 MD	33253 MD	33256 MD	33221 MD	33249 MD
33310 MD	33351 MD	33352 MD	33353 MD	33356 MD	33321 MD	33349 MD
33410 MD	33451 MD	33452 MD	33453 MD	33456 MD	33421 MD	33449 MD



CLICK*line*® KELLY Dissecting and Grasping Forceps

33210 ML	33251 ML	33252 ML	33253 ML	33256 ML	33221 ML	33249 ML
33310 ML	33351 ML	33352 ML	33353 ML	33356 ML	33321 ML	33349 ML
33410 ML	33451 ML	33452 ML	33453 ML	33456 ML	33421 ML	33449 ML



CLICK*line*® KELLY Dissecting and Grasping Forceps, long

33310 DK	33351 DK	33352 DK	33353 DK	33356 DK	33321 DK	33349 DK
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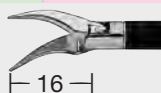
CLICK*line*® DeBAKEY Grasping Forceps, curved and slender jaws, atraumatic

33310 UY	33351 UY	33352 UY	33353 UY	33356 UY	33321 UY	33349 UY
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CLICK*line*® UYAMA Dissecting and Grasping Forceps, long jaws, with reservoir, fine, for dissection

33310 NO	33351 NO	33352 NO	33353 NO	33356 NO	33321 NO	33349 NO
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CLICK*line*® NOSHIRO Dissecting and Grasping Forceps, short jaws, fine, for dissection

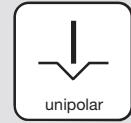
# Dissecting and Grasping Forceps

CLICK<sup>line</sup> – rotating, dismantling, insulated,  
with connector pin for unipolar coagulation

Size 5 mm

Operating instruments, lengths 30 and 36 cm,  
for use with trocars size 6 mm

Operating instruments, length 43 cm,  
for use with telescopes with inbuilt  
working channel and trocars size 6 mm



Length	Handle						
	33151	33152	33153	33156	33121	33125	33149
30 cm							
36 cm							
43 cm							

## Double action jaws

Working Insert	Complete Instrument						
33210 R	33251 R	33252 R	33253 R	33256 R	33221 R	33225 R	33249 R
33310 R	33351 R	33352 R	33353 R	33356 R	33321 R	33325 R	33349 R
33410 R	33451 R	33452 R	33453 R	33456 R	33421 R	33425 R	33449 R



CLICK<sup>line</sup> Dissecting and Grasping Forceps, right-angled

33210 UL	33251 UL	33252 UL	33253 UL	33256 UL	33221 UL	33225 UL	33249 UL
33310 UL	33351 UL	33352 UL	33353 UL	33356 UL	33321 UL	33325 UL	33349 UL
33410 UL	33451 UL	33452 UL	33453 UL	33456 UL	33421 UL	33425 UL	33449 UL



CLICK<sup>line</sup> REDDICK-OLSEN Dissecting and Grasping Forceps, robust

33210 HM	33251 HM	33252 HM	33253 HM	33256 HM	33221 HM	33225 HM	33249 HM
33310 HM	33351 HM	33352 HM	33353 HM	33356 HM	33321 HM	33325 HM	33349 HM
33410 HM	33451 HM	33452 HM	33453 HM	33456 HM	33421 HM	33425 HM	33449 HM

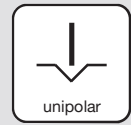


CLICK<sup>line</sup> Dissecting and Grasping Forceps, "alligator jaws"

5 mm

# Dissecting and Grasping Forceps

CLICK*liné* – rotating, dismantling, insulated, with connector pin for unipolar coagulation



## Size 5 mm

Operating instruments, lengths 30 and 36 cm, for use with trocars size 6 mm

Operating instruments, length 43 cm, for use with telescopes with inbuilt working channel and trocars size 6 mm

5 mm

Length	Handle						
	33151	33152	33153	33156	33121	33125	33149
30 cm							
36 cm							
43 cm							

## Double action jaws

Working Insert	Complete Instrument						
33210 MH	33251 MH	33252 MH	33253 MH	33256 MH	33221 MH	33225 MH	33249 MH
33310 MH	33351 MH	33352 MH	33353 MH	33356 MH	33321 MH	33325 MH	33349 MH



CLICK*liné* Dissecting and Grasping Forceps, atraumatic

33210 DF	33251 DF	33252 DF	33253 DF	33256 DF	33221 DF	33225 DF	33249 DF
33310 DF	33351 DF	33352 DF	33353 DF	33356 DF	33321 DF	33325 DF	33349 DF
33410 DF	33451 DF	33452 DF	33453 DF	33456 DF	33421 DF	33425 DF	33449 DF



CLICK*liné* Dissecting and Grasping Forceps, atraumatic

33210 DN	33251 DN	33252 DN	33253 DN	33256 DN	33221 DN	33225 DN	33249 DN
33310 DN	33351 DN	33352 DN	33353 DN	33356 DN	33321 DN	33325 DN	33349 DN
33410 DN	33451 DN	33452 DN	33453 DN	33456 DN	33421 DN	33425 DN	33449 DN



CLICK*liné* Dissecting and Grasping Forceps, "dolphin nose"

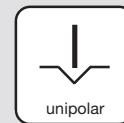
33210 KJ	33251 KJ	33252 KJ	33253 KJ	33256 KJ	33221 KJ	33225 KJ	33249 KJ
33310 KJ	33351 KJ	33352 KJ	33353 KJ	33356 KJ	33321 KJ	33325 KJ	33349 KJ
33410 KJ	33451 KJ	33452 KJ	33453 KJ	33456 KJ	33421 KJ	33425 KJ	33449 KJ



CLICK*liné* REDDICK-OLSEN Dissecting and Grasping Forceps

# Dissecting and Grasping Forceps

CLICK*liné* – rotating, dismantling, insulated,  
with connector pin for unipolar coagulation



## Size 5 mm

Operating instruments, lengths **30 and 36 cm**,  
for use **with trocars size 6 mm**

Operating instruments, length **43 cm**,  
for use with telescopes with inbuilt  
working channel and trocars size 6 mm

Length	Handle					
	33151	33152	33153	33156	33121	33149
30 cm						
36 cm						
43 cm						

## Single action jaws

Working Insert	Complete Instrument					
33310 IN	<b>33351 IN</b>	33352 IN	33353 IN	33356 IN	33321 IN	33349 IN
	<b>CLICK<i>liné</i> INAKI Dissecting and Grasping Forceps</b> , slender, atraumatic, fenestrated, curved					
33310 MF	33351 MF	33352 MF	33353 MF	33356 MF	33321 MF	33349 MF
	<b>CLICK<i>liné</i> Dissecting and Grasping Forceps</b> , atraumatic					
33310 MR	33351 MR	<b>33352 MR</b>	33353 MR	33356 MR	33321 MR	33349 MR
	<b>CLICK<i>liné</i> Dissecting and Grasping Forceps</b> , “duckbill jaws”, blunt, to effect mechanical hemostasis					
33310 MS	33351 MS	33352 MS	33353 MS	33356 MS	33321 MS	33349 MS
33410 MS	33451 MS	33452 MS	33453 MS	33456 MS	33421 MS	33449 MS
	<b>CLICK<i>liné</i> Dissecting and Grasping Forceps</b> , “duckbill jaws”, blunt, to effect mechanical hemostasis					
33210 MT	33251 MT	33252 MT	33253 MT	33256 MT	33221 MT	33249 MT
33310 MT	33351 MT	33352 MT	33353 MT	33356 MT	33321 MT	33349 MT
	<b>CLICK<i>liné</i> Dissecting and Grasping Forceps</b> , “duckbill jaws”, blunt, to effect mechanical hemostasis					

## Dissecting and Grasping Forceps

**CLICKLINE®** – rotating, dismantling,  
insulated, with connector pin for unipolar coagulation  
size 5 mm, trocar size 6 mm

Working Length				
30 cm	Handle 33151	Handle 33152	Handle 33153	Handle 33156
36 cm				
43 cm				

### Double-action jaws

Working Insert No.	Catalog number of the complete instrument			
33210ML	33251ML	33252ML	33253ML	33256ML
33310ML	33351ML	33352ML	33353ML	33356ML
33410ML	33451ML	33452ML	33453ML	33456ML



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**CLICKLINE® Dissecting and Grasping Forceps, long**

33210AF	33251AF	33252AF	33253AF	33256AF
33310AF	33351AF	33352AF	33353AF	33356AF
33410AF	33451AF	33452AF	33453AF	33456AF



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**CLICKLINE® Grasping Forceps, atraumatic, fenestrated**

33310DF	33351DF	33352DF	33353DF	33356DF
33410DF	33451DF	33452DF	33453DF	33456DF



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**CLICKLINE® Dissecting and Grasping Forceps, atraumatic**

### Ein Maulteil beweglich:

33210ON	33251ON	33252ON	33253ON	33256ON
33310ON	33351ON	33352ON	33353ON	33356ON
33410ON	33451ON	33452ON	33453ON	33456ON



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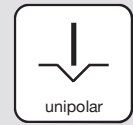
**CLICKLINE® Grasping Forceps, with fine atraumatic serration, fenestrated**

### Please note:

For **CLICKLINE®** instruments only the **individual component parts** are numbered. The catalog number for the **complete instrument** is not on the instrument. Instruments with **insulated handles with connector pin** for unipolar coagulation, are shown against the **red** background. The colour **green** indicates the inserts.

# Dissecting and Grasping Forceps

CLICK'liné – rotating, dismantling, insulated, with connector pin for unipolar coagulation



## Size 5 mm

Operating instruments, lengths 30 and 36 cm, for use with trocars size 6 mm

Operating instruments, length 43 cm, for use with telescopes with inbuilt working channel and trocars size 6 mm

Length	Handle						
	33151	33152	33153	33156	33121	33125	33149
30 cm							
36 cm							
43 cm							

## Single action jaws

Working Insert	Complete Instrument						
33310 M	33351 M	33352 M	33353 M	33356 M	33321 M	33325 M	33349 M



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**CLICK'liné Grasping Forceps**, with multiple teeth, width of jaws 3 mm, for atraumatic and accurate grasping

33310 FM	33351 FM	33352 FM	33353 FM	33356 FM	33321 FM	33325 FM	33349 FM
33410 FM	33451 FM	33452 FM	33453 FM	33456 FM	33421 FM	33425 FM	33449 FM



— 26 —

**CLICK'liné Claw Forceps**, 2 x 3 teeth

33210 ME	33251 ME	33252 ME	33253 ME	33256 ME	33221 ME	33225 ME	33249 ME
33310 ME	33351 ME	33352 ME	33353 ME	33356 ME	33321 ME	33325 ME	33349 ME
33410 ME	33451 ME	33452 ME	33453 ME	33456 ME	33421 ME	33425 ME	33449 ME



— 14 —

**CLICK'liné Grasping Forceps**, with multiple teeth, width of jaws 4.8 mm, for atraumatic and accurate grasping

33210 MG	33251 MG	33252 MG	33253 MG	33256 MG	33221 MG	33225 MG	33249 MG
33310 MG	33351 MG	33352 MG	33353 MG	33356 MG	33321 MG	33325 MG	33349 MG
33410 MG	33451 MG	33452 MG	33453 MG	33456 MG	33421 MG	33425 MG	33449 MG

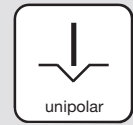


— 14 —

**CLICK'liné Grasping Forceps**, “tiger jaws”, 2 x 4 teeth, for grasping and removal of solid organs, in particular during adhesiolyses

# Dissecting and Grasping Forceps

CLICK<sup>line</sup> – rotating, dismantling, insulated,  
with connector pin for unipolar coagulation



## Size 5 mm

Operating instruments, lengths 30 and 36 cm,  
for use with trocars size 6 mm

Operating instruments, length 43 cm,  
for use with telescopes with inbuilt  
working channel and trocars size 6 mm

Length	Handle					
	33151	33152	33153	33156	33121	33149
30 cm						
36 cm						
43 cm						

## Double action jaws

Working Insert	Complete Instrument					
33310 KW	33351 KW	33352 KW	33353 KW	33356 KW	33321 KW	33349 KW
   18	<b>CLICK<sup>line</sup> MATKOWITZ Grasping Forceps</b>					

33210 G	33251 G	33252 G	33253 G	33256 G	33221 G	33249 G
33310 G	33351 G	33352 G	33353 G	33356 G	33321 G	33349 G
33410 G	33451 G	33452 G	33453 G	33456 G	33421 G	33449 G
   14	<b>CLICK<sup>line</sup> Grasping Forceps, 2 x 4 teeth</b>					

33310 J	33351 J	33352 J	33353 J	33356 J	33321 J	33349 J
   11	<b>CLICK<sup>line</sup> BERCI Multifunctional Grasping Forceps, 1 x 1 teeth</b>					

33310 PM	33351 PM	33352 PM	33353 PM	33356 PM	33321 PM	33349 PM
   17	<b>CLICK<sup>line</sup> MANGESHIKAR Grasping Forceps, 2 x 1 teeth</b>					

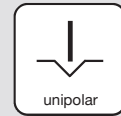
# Dissecting and Grasping Forceps

CLICKline® – rotating, dismantling, insulated,  
with connector pin for unipolar coagulation

## Size 5 mm

Operating instruments, lengths 30 and 36 cm, for use with trocars size 6 mm

Operating instruments, length 43 cm, for use with telescopes with inbuilt working channels and trocars size 6 mm



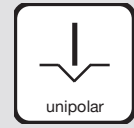
Length	Handle					
	33151	33152	33153	33156	33121	33149
30 cm						
36 cm						
43 cm						

## Single action jaws

Working Insert	Complete Instrument					
33310 SN	33351 SN	33352 SN	33353 SN	33356 SN	33321 SN	33349 SN
  — 22 —	<b>CLICKline® SCHNEIDER Lymph Node Grasping Forceps</b> , atraumatic					
33310 DY	33351 DY	33352 DY	33353 DY	33356 DY	33321 DY	33349 DY
33410 DY	33451 DY	33452 DY	33453 DY	33456 DY	33421 DY	33449 DY
  — 24 —	<b>CLICKline® DeBAKEY Grasping Forceps</b> , atraumatic					
33310 WT	33351 WT	33352 WT	33353 WT	33356 WT	33321 WT	33349 WT
  — 28 —	<b>CLICKline® Grasping Forceps</b> , atraumatic					
33210 BA	33251 BA	33252 BA	33253 BA	33256 BA	33221 BA	33249 BA
33310 BA	33351 BA	33352 BA	33353 BA	33356 BA	33321 BA	33349 BA
33410 BA	33451 BA	33452 BA	33453 BA	33456 BA	33421 BA	33449 BA
  — 16 —	<b>CLICKline® BABCOCK Grasping Forceps</b> , atraumatic, jaws with multiple teeth, fenestrated					

# Dissecting and Grasping Forceps

CLICK<sup>liné</sup> – rotating, dismantling, insulated, with connector pin for unipolar coagulation



## Size 5 mm





Operating instruments, length 36 cm, for use with trocars size 6 mm

Operating instruments, length 43 cm, for use with telescopes with inbuilt working channel and trocars size 6 mm

5 mm

Length	Handle						
	33151	33152	33153	33156	33121	33125	33149
36 cm							
43 cm							

## Single action jaws




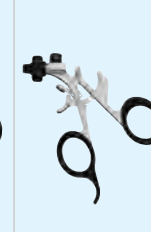

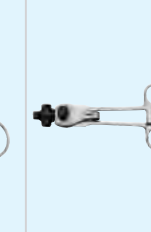
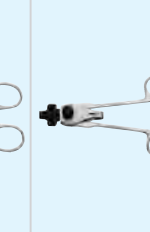
Working Insert	Complete Instrument						
33310 BB	33351 BB	33352 BB	33353 BB	33356 BB	33321 BB	33325 BB	33349 BB
33410 BB	33451 BB	33452 BB	33453 BB	33456 BB	33421 BB	33425 BB	33449 BB
  — 30 —	CLICK <sup>liné</sup> BABCOCK Grasping Forceps, atraumatic, jaws with multiple teeth, fenestrated, long						
33310 AA	33351 AA	33352 AA	33353 AA	33356 AA	33321 AA	33325 AA	33349 AA
  — 23 —	CLICK <sup>liné</sup> MOURET Grasping Forceps, atraumatic, fenestrated, slender						
33310 AB	33351 AB	33352 AB	33353 AB	33356 AB	33321 AB	33325 AB	33349 AB
  — 30 —	CLICK <sup>liné</sup> MOURET Grasping Forceps, atraumatic, fenestrated, round jaws, slender						
33310 MA	33351 MA	33352 MA	33353 MA	33356 MA	33321 MA	33325 MA	33349 MA
  — 17 —	CLICK <sup>liné</sup> Grasping Forceps, “cobra-jaws”, 1 x 2 teeth						

# Dissecting and Grasping Forceps


CLICK'linē – rotating, dismantling,  
without connector pin for coagulation

## Size 10 mm

Operating instruments, **length 36 cm**,  
for use **with trocars size 11 mm**

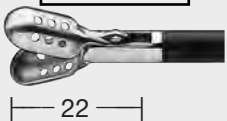
Length	Handle						
	33161	33162	33163	33166	33131	33146	33147
36 cm							

## Single action jaws

Working Insert	Complete Instrument						
33510 FK	33561 FK	33562 FK	33563 FK	33566 FK	33531 FK	33546 FK	33547 FK
	CLICK'linē Claw Forceps, 2 x 3 teeth, short						
	— 21 —						

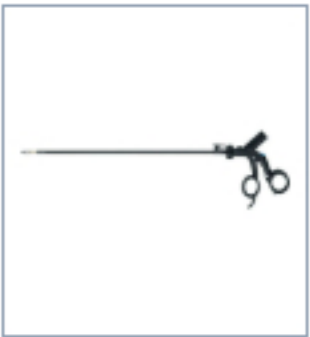
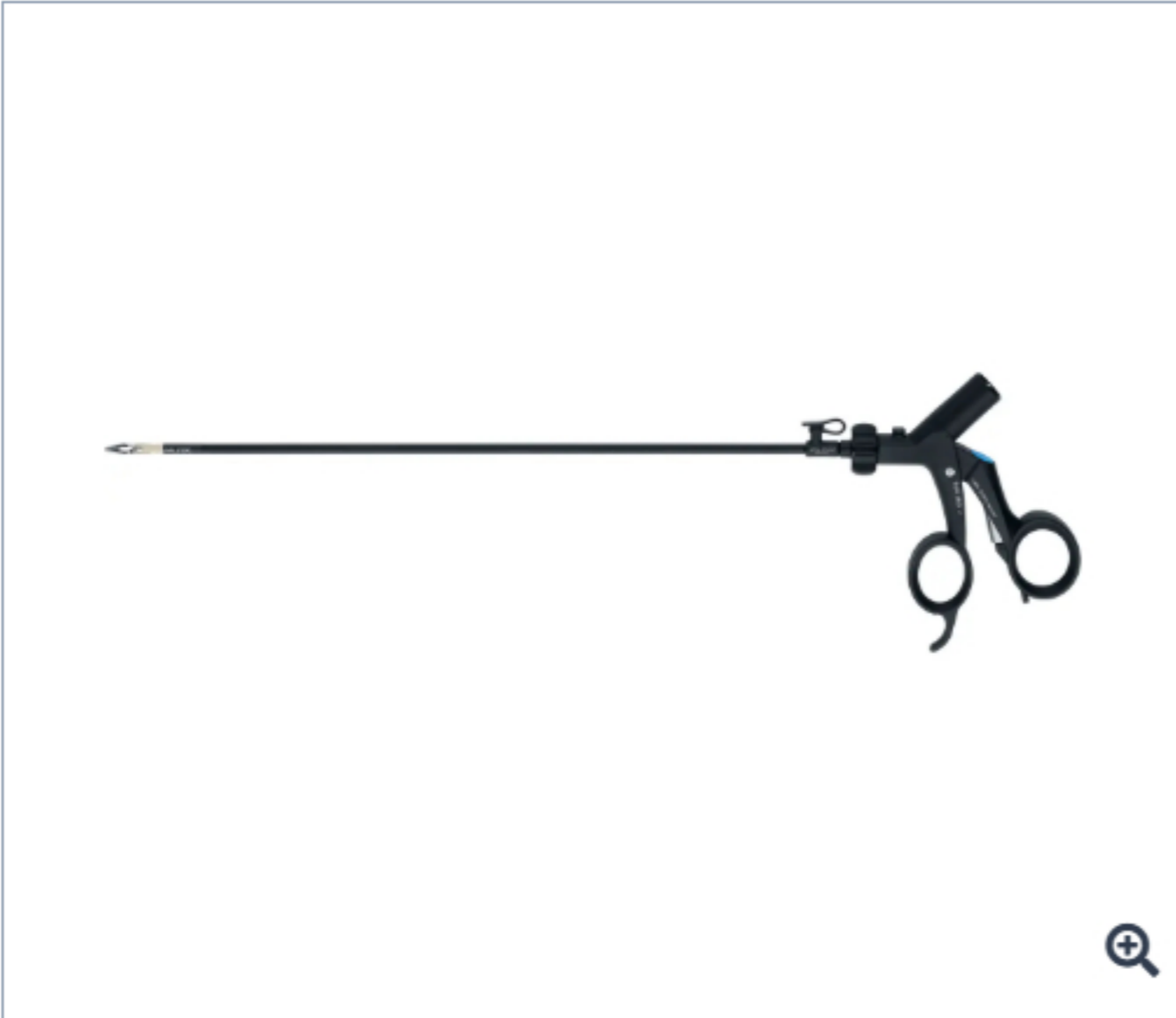
33510 FS	33561 FS	33562 FS	33563 FS	33566 FS	33531 FS	33546 FS	33547 FS
	CLICK'linē Claw Forceps, 2 x 3 teeth						
	— 35 —						

## Double action jaws

33510 SR	33561 SR	33562 SR	33563 SR	33566 SR	33531 SR	33546 SR	33547 SR
	CLICK'linē Forceps, to retrieve lost gallstones						
	— 22 —						

[Home page](#) > Online Catalog

## 38651MD



Item no: 38651MD

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### ROBI KELLY Grasping Forceps

Quantity:

#### Scope of delivery

- 38151      RoBi Plastic Handle (1)
- 38600      RoBi Metal Outer Sheath (1)
- 38610MD      ROBI KELLY Forceps Insert (1)

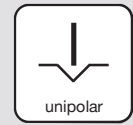


Technical details	Documents & Films	Product group / field of application
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Size	5 mm
Insulated	Yes

# Scissors

CLICK<sup>line</sup> – rotating, dismantling,  
with and without connector pin for unipolar coagulation



## Size 5 mm

Operating instruments, lengths 30, 36 and 43 cm,  
for use with trocars size 6 mm

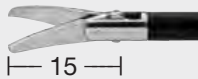
Operating instruments, length 43 cm,  
for use with telescopes with inbuilt  
working channel and trocars size 6 mm

5 mm

Length	Handle						
	33151	33121	33125	33149	33161	33131	33147
30 cm							
36 cm							
43 cm							

## Double action jaws

Working Insert	Complete Instrument						
34210 MS	34251 MS	34221 MS	34225 MS	34249 MS	34261 MS	34231 MS	34247 MS
34310 MS	34351 MS	34321 MS	34325 MS	34349 MS	34361 MS	34331 MS	34347 MS
34410 MS	34451 MS	34421 MS	34425 MS	34449 MS	34461 MS	34431 MS	34447 MS



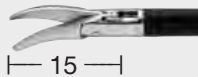
CLICK<sup>line</sup> METZENBAUM Scissors, curved

34210 MA	34251 MA	34221 MA	34225 MA	34249 MA	34261 MA	34231 MA	34247 MA
34310 MA	34351 MA	34321 MA	34325 MA	34349 MA	34361 MA	34331 MA	34347 MA
34410 MA	34451 MA	34421 MA	34425 MA	34449 MA	34461 MA	34431 MA	34447 MA



CLICK<sup>line</sup> Scissors, serrated blades, spoon-shaped, curved

34210 MW	34251 MW	34221 MW	34225 MW	34249 MW	34261 MW	34231 MW	34247 MW
34310 MW	34351 MW	34321 MW	34325 MW	34349 MW	34361 MW	34331 MW	34347 MW
34410 MW	34451 MW	34421 MW	34425 MW	34449 MW	34461 MW	34431 MW	34447 MW



CLICK<sup>line</sup> Scissors, serrated, curved, conical

34210 MD	34251 MD	34221 MD	34225 MD	34249 MD	34261 MD	34231 MD	34247 MD
34310 MD	34351 MD	34321 MD	34325 MD	34349 MD	34361 MD	34331 MD	34347 MD



CLICK<sup>line</sup> Scissors, straight

# Coagulation and Dissection Electrodes

without suction channel, insulated sheath,  
with connector pin for unipolar coagulation

## Size 5 mm

Operating instruments, **lengths 30 and 36 cm**,  
for use with **trocars size 6 mm**

Operating instruments, **length 43 cm**,  
for use with telescopes with inbuilt  
working channel and trocars size 6 mm



Length	Instrument
30 cm	
36 cm	
43 cm	

Distal Tip	Instrument
	26772 UF 26775 UF 26778 UF <b>Coagulation and Dissection Electrode, L-shaped</b>
	26775 UE 26778 UE <b>Coagulation and Dissection Electrode, spatula-shaped, blunt</b>
	26775 S <b>Coagulation and Dissection Electrode, knife-shaped</b>
	26775 R <b>MANGESHIKAR Coagulation Electrode, with ball end</b>

### Special Features:

- The hook electrode is suitable for resection, insulating structures as well as dissection and coagulation.
- The distal tip is semicircular: The thick outer curvature enables safe dissection.
- The thin inner curvature enables fast work with minimal coagulation.
- The striated handle allows easier gripping.
- The hook length enables ergonomic work.

Length	Instrument
36 cm	
43 cm	

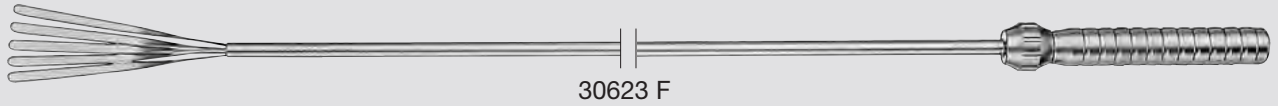
Distal Tip	Instrument
	26775 C 26775 CL <b>CADIERE Coagulation and Dissection Electrode, L-shaped, with cm-marking, distal tip tapered</b>

Units for use with Coagulation and Dissection Electrodes see chapter 20, UNITS

## Fan Retractors

### Size 5 mm

Operating instrument, length 36 cm,  
for use with trocars size 6 mm

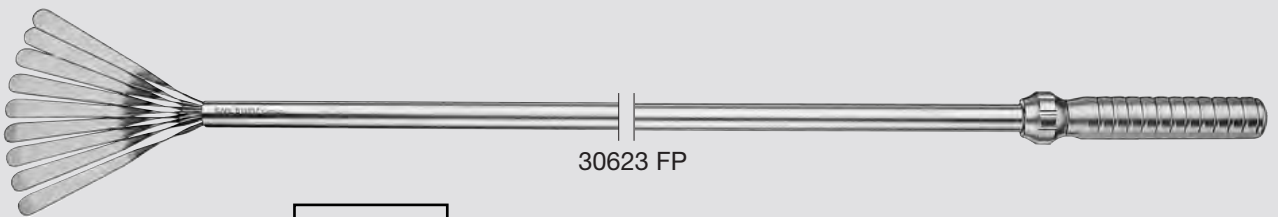


30623 F

**Fan Retractor**, dismantling, retractable,  
size 5 mm, length 36 cm, opening angle in  
extended position approx. 16°

### Size 10 mm

Operating instrument, length 36 cm,  
for use with trocars size 11 mm



30623 FP

**Fan Retractor**, dismantling, retractable,  
size 10 mm, length 36 cm, opening angle in  
extended position approx. 60°

### Size 12 mm

Operating instrument, length 36 cm,  
for use with trocars size 13 mm



26173 FP

**Fan Retractor**, dismantling, retractable, with  
proximal rotating wheel for expansion, size 12 mm,  
length 36 cm, opening angle in extended position  
approx. 60°

**Components/Spare Parts** see chapter 18

# KOH Macro Needle Holders, KOH Assistant Needle Holder

## Size 5 mm

Operating instruments, lengths 33 and 43 cm, for use with trocars size 6 mm

Length	Instrument
33 cm	
43 cm	

Distal Tip	Instrument
	26173 KPF KOH <b>Macro Needle Holder</b> , straight jaws, with tungsten carbide insert, pistol handle with disengageable ratchet, ratchet position left
	26178 KPF
	26173 KPL KOH <b>Macro Needle Holder</b> , jaws curved to left, with tungsten carbide insert, pistol handle with disengageable ratchet, ratchet position left
	26178 KPL
	26173 KPR KOH <b>Macro Needle Holder</b> , jaws curved to right, with tungsten carbide insert, pistol handle with disengageable ratchet, ratchet position right
	26178 KPR
	26173 KG KOH <b>Assistant Needle Holder</b> , straight jaws with distal hole, pistol handle with disengageable ratchet, ratchet position left

Length	Instrument
33 cm	

Distal Tip	Instrument
	26173 KL KOH <b>Macro Needle Holder</b> , jaws curved to left, with tungsten carbide insert, handle with ratchet, ratchet position on top
	26173 KC KOH <b>Macro Needle Holder</b> , jaws curved to right, with tungsten carbide insert, handle with ratchet, ratchet position on top



Components/Spare Parts see chapter 18

# Suction and Irrigation Tubes



## Size 3.5 mm

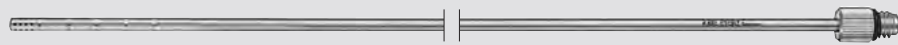

Operating instruments, lengths 20 and 36 cm,  
for use with trocars size 3.5 mm

Length	Instrument	
20 cm		
36 cm		
Distal End	Instrument	
	26167 ANS	<b>Suction and Irrigation Tube</b> , with lateral holes, for use with handles for irrigation and suction
	26167 ANL	

## Size 5 mm

Operating instruments, lengths 30 and 36 cm,  
for use with trocars size 6 mm

Operating instruments, length 43 cm, for  
use with telescopes with inbuilt working  
channel and 6 mm trocars

Length	Instrument	
30 cm		
36 cm		
43 cm		
Distal End	Instrument	
	37260 LH	<b>Suction and Irrigation Tube</b> , with lateral holes
	37360 LH	
	37460 LH	
	37360 SC	<b>Suction and Irrigation Tube</b>
	37360 CP	<b>Suction and Irrigation Tube</b> , for puncture and suction of cysts

**Please note:**

**Handles for use with Suction and Irrigation Tubes** see pages 225-226

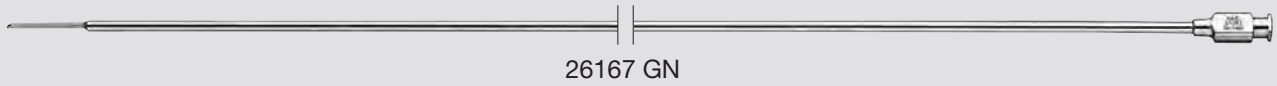
**Units for use with Handles for Suction and Irrigation** see chapter 17, UNITS

**Components/Spare Parts** see chapter 18

## Needles, Cannula

### Size 3.5 mm

Operating instruments, **length 30 cm**,  
for use **with trocars size 3.5 mm**



26167 GN



26167 GN  
**NEW**

**MENGHINI Liver Biopsy Needle**, LUER-Lock,  
size 3.5 mm, needle diameter 1.6 mm, length 30 cm



26167 NN



26167 NN  
**NEW**

**KOH Ultramicro Injection Cannula**,  
size 3.5 mm, length 30 cm

### Size 5 mm

Operating instruments, **length 36 cm**,  
for use **with trocars size 6 mm**

Operating instruments, **length 43 cm**,  
for use with telescopes with inbuilt  
working channel **and trocars size 6 mm**

Length	Instrument
36 cm	
43 cm	

Distal End	Instrument	
	26175 G	<b>MENGHINI Liver Biopsy Needle</b> , LUER-Lock, diameter 1.6 mm
	26178 G	
	26175 PD	<b>Injection Needle</b> , LUER-Lock, diameter 0.8 mm
	26175 P	<b>Injection Needle</b> , LUER-Lock, diameter 1.2 mm
	26178 P	
	26175 R	<b>Puncture Needle</b> , LUER-Lock, diameter 1.6 mm
	26178 R	

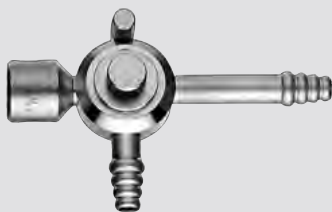
8-924

## Handles for Suction and Irrigation



30804

**Handle with Trumpet Valve**, for suction or irrigation, **autoclavable**, for use with 5 mm coagulation suction tubes as well as 3, 3.5 and 5 mm suction and irrigation tubes



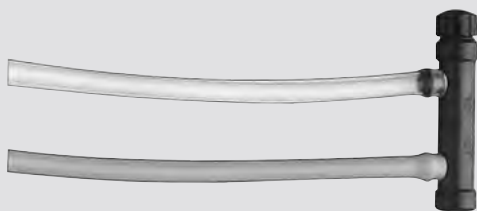
30805

**Handle with Two-Way Stopcock**, for suction and irrigation, **autoclavable**, for use with suction and irrigation tubes size 3, 3.5 and 5 mm



30810

**Handle**, for suction and irrigation, **autoclavable**, for use with 5 mm coagulation suction tubes as well as 3, 3.5 and 5 mm suction and irrigation tubes



30811

**Silicone Tubing Set, autoclavable**, for use with Handle 30810

031132-10\*

**Tubing Set**, sterile, for single use, package of 10, for use with Handle 30810



2-985



**Please note:**  
**Units for use with Handles for Suction and Irrigation** see chapter 17, UNITS  
**Components/Spare Parts** see chapter 18



UG 230

**Equipment Cart LC**, rides on 4 antistatic dual wheels equipped with locking brakes, energy beam with integrated electrical subdistributors with 6 sockets, grounding plugs,

Dimensions:

Equipment cart: 830 x 1474 x 730 mm (w x h x d),

Shelf: 630 x 25 x 510 mm (w x h x d),

Caster diameter: 125 mm

including:

**Base Module**, equipment cart LC

**Cover**, equipment cart LC

**Beam Package**, equipment cart LC

**Shelf**, wide

**Drawer Unit with Lock**, wide

**Camera Holder**

2x **Mains Cord**, length 100 cm

## CO<sub>2</sub> Adaptor Set for Bottle Holder



UG812

**Adaptor Set for Bottle Holder**, COR mobile stand, two elements, dimensions in mm (w x h x d): 49 x 162 x 65 and 49 x 252 x 65, for use with Beam Modules UG801 and UG802 and CO<sub>2</sub> Bottle Holder UG609

UG609

**Bottle Holder**, for CO<sub>2</sub> bottles, max. diameter 210 mm, dimensions in mm (w x h x d): 230 x 280 x 210, for use with Equipment Carts UGxxx

## Suction Canister Holder for COR Mobile Stand



UG814

**Suction Canister Holder**, COR mobile stand, dimensions in mm (w x h x d): 210 x 276 x 256, for use with Guardian Suction Canister 030306-04

## Footswitch Holders



UG901

**Footswitch Holder**, for use with One-Pedal Footswitch UF901



UG902

**Footswitch Holder**, for use with Two-Pedal Footswitch UF902 and one- and two-pedal universal footswitches



29005EFH

**Footswitch Holder**, for one-pedal footswitch



29005DFH

**Footswitch Holder**, for two- and three-pedal footswitches

## Camera Head Holder



29005KHN

**Camera Holder**, for mounting camera heads, with removable inserts, compatible with all KARL STORZ endoscopic camera heads, for mounting to equipment rails

**ENDOFLATOR® 50 SCB**

UI500S1

**ENDOFLATOR® 50 SCB**,  
integrated SCB module,  
power supply 100–40 VAC, 50/60 Hz  
including:

**ENDOFLATOR® 50 SCB**

**SCB Connecting Cable**, length 100 cm

**Universal Wrench**

**Heated Insufflation Tubing Set**, with gas filter,  
sterile, for single use, package of 3\*

**HiCap® Trocar**, size 11 mm

**Subject to the customer's application-specific requirements additional accessories must be ordered separately.**

**HAMOU® ENDOMAT® with KARL STORZ SCB**

Suction and Irrigation System



**26331101-1 HAMOU® ENDOMAT® SCB**,  
power supply 100–240 VAC, 50/60 Hz  
including:

**Mains Cord**

5x **HYST Tubing Set\***, for single use

5x **LAP Tubing Set\***, for single use

**SCB Connecting Cable**, length 100 cm

**VACUsafe Promotion Pack Suction\***, 2 l

**Subject to the customer's application-specific requirements additional accessories must be ordered separately.**



**8.5 Technische Daten**
**8.5 Technical data**
**8.5 Datos técnicos**

ENDOFLATOR® 50	ENDOFLATOR® 50	ENDOFLATOR® 50	UI 500
Netzversorgungsspannung	Line voltage	Tensión de alimentación de la red	100...240 V~
Netzfrequenz	Line frequency	Frecuencia de la red	50/60 Hz
Netzsicherung	Line fuse	Fusible para la red	2 x T 2.5 AH 250V
Mittlere Leistungsaufnahme bei Flow 40l/min (Eingangsdruck 60 bar)	Average power consumption with flow of 40l/min (input pressure 60 bar)	Consumo medio de potencia con un flujo de 40l/min (presión de entrada 60 bares)	240 VAC: 230 W 100 VAC: 130 W
Maximale Stromaufnahme	Maximum current consumption	Consumo de corriente máximo	240 VAC: 1.8 A 100 VAC: 1.3 A
Gaseingang (maximaler Druck)	Gas inlet (maximum pressure)	Entrada de gas (presión máxima)	100 bar
Temperatur Patientenschlauchheizung	Temperature patient tube heating	Temperatura calefactor del tubo flexible para paciente	37 °C
Betriebsart »PÄDIATRIE«	'PEDIATRICS' mode	Modo de servicio "PEDIATRÍA"	
Intrakavitärer Druck	Intracavitary pressure	Presión intracavitaria	1...15 mmHg (Auflösung/resolution/resolución: 1 mmHg)
Flow	Flow	Flujo	0.1...15 l/min (Auflösung/resolution/resolución 0.1...2 l/min: 0.1 l/min; 2...9.5 l/min: 0.5 l/min 10...15 l/min: 1 l/min)
Insufflationsdruck	Insufflation pressure	Presión de insuflación	max./máx. 30 mmHg
Betriebsart »HIGH FLOW«	'HIGH FLOW' mode	Modo de servicio "HIGH FLOW"	
Intrakavitärer Druck	Intracavitary pressure	Presión intracavitaria	1...30 mmHg (Auflösung/resolution/resolución: 1 mmHg)
Flow	Flow	Flujo	1...50 l/min (Auflösung/resolution/resolución: 1 l/min)
Insufflationsdruck	Insufflation pressure	Presión de insuflación	max./máx. 50 mmHg
Abmessungen (B x H x T)	Dimensions (W x H x D)	Dimensiones (an x al x pr)	305 mm x 164 mm x 315 mm
Gewicht	Weight	Peso	7.8 kg
Betriebsbedingungen:	Operating conditions:	Condiciones de servicio:	
Luftfeuchtigkeit (rel. Feuchte, nicht kondensierend)	Humidity (rel. humidity, non-condensing)	Humedad del aire (humedad relativa, sin condensación)	15%...85%
Temperatur	Temperature	Temperatura	10...35 °C
Max. Betriebshöhe	Max. operating altitude	Altura máxima de servicio	3000 m
Lager-/Transportbedingungen:	Storage/transport conditions:	Cond. de almacenamiento/transporte:	
Luftfeuchtigkeit (rel. Feuchte, nicht kondensierend)	Humidity (rel. humidity, non-condensing)	Humedad del aire (humedad relativa, sin condensación)	5%...95%
Temperatur	Temperature	Temperatura	-10 °C...60 °C
Atmosphärischer Druck	Atmospheric pressure	Presión atmosférica	+500hPa...+1080hPa

# ENDOMAT SELECT | KARL STORZ Endoskope

[karlstorz.com/gb/en/product-detail-page.htm](http://karlstorz.com/gb/en/product-detail-page.htm)



Pump function	Suction or irrigation pump
Unit type	Roller pump
Power supply	100 – 240 VAC
Width	370 mm
Height	124 mm
Depth	305 mm
Weight	5.9 kg
Line frequency	50/60 Hz
Suction flow: Software license IBS® shaver	100 – 300 ml/min

Suction flow: Software license URO (RES)	100 – 1000 ml/min
Suction flow: Software license URO (CALCUSON)	300 – 1000 ml/min
Suction flow: Software license HYS	10...180 ml/min
Suction flow: Software license ART	100...1000 ml/min
Irrigation flow (ml/min)	Accuracy (0...3500 ml/min): +/- 20 %; HYS, URO, SPINE: 200-400-600; ART: 1500-2000-2500; SURG: 100...2500 (Advanced: 100...3500); GI: 100...1000; ENT/NEURO: 50-65-80-95-110-130; Motor system: 50-65-80-95-110-130
Irrigation pressure (mmHg) max.	Accuracy (up to 100 mmHg): +/- 10, HYS, URO, ART, SPINE: 20...150, LAP, GI: 100-300-500 (Advanced only)
Brand	ENDOMAT® SELECT
Unit communication SCB	No
IP protection class	IP21
Electrical protection class	Protection class 1
Degree of safety	CF
Control via touch screen	Yes
Wipe disinfection	Yes
Display	TFT screen
Socket for external systems	2

Unit communication KS HIVE®	Yes
Connection socket for footswitch	2
Bottle stand included	No
Power consumption	82 VA
Operative procedure	ART, CYST, PCN, URS, RES, HYS, IBS, LAP, PRO, THOR, SPINE
Electrical protection class	I

- UP601     **SURGERY Software**, license, allows selection of the procedures "LAP", "THOR" and "PROCTO"
- UP602     **HYSTEROSCOPY Software**, license, allows selection of the procedure "HYS"
- UP603     **IBS® Shaver Software**, license, allows selection of the procedure "IBS® Shaver"
- UP604     **UROLOGY Software**, license, allows selection of the procedures "CYST", "PCN", "URS", "CALCUSON" and "RES"
- UP605     **ARTHROSCOPY Software**, license, allows selection of the procedures "KNEE", "HIP", "SHOULDER" and "SMALL JOINTS"
- UP606     **ENT/NEURO Software**, license, allows selection of the procedure "CLEARVISION®", for use with ENDOMAT® SELECT UP210
- UP607     **SPINE Software**, license, allows selection of the procedures "LUMBAR" and "THORACIC"
- UP610     **ADVANCED Package**, software, license, extends functions of installed software packages, for use with ENDOMAT® SELECT UP210

# Insufflation Tubing Sets, Gas Filters and Accessories



**Special Features:**

- Protects patients and equipment against contamination
- Gas flow of up to 50 l/min
- Preheated gas for better view and patient comfort (031210-10)



For use with electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50



031122-25



031200-10



031210-10

- 031122-25 **Gas Filter**, with ISO connectors, hydrophobic on both sides, sterile, for single use, package of 25, for use with insufflation units with a maximum gas flow of 50 l/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)
- 031200-10 **Insufflation Tubing Set with Gas Filter**, length 300 cm, hydrophobic on both sides, sterile, for single use, package of 10, for use with insufflation units with a maximum gas flow of 50 l/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)
- 031210-10 **Insufflation Tubing Set with Gas Filter**, length 300 cm, heatable, hydrophobic on both sides, sterile, for single use, package of 10, for use with ENDOFLATOR® 50

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[Home page](#) > [Online Catalog](#) - [Online Catalog](#)


## UF201



Item no: UF201

## Two-Pedal Footswitch, one-stage

Quantity:

Add to My Quote List 

Technical details

Documents & Films

Product group / field of application

One-stage / two-stage

One-stage

Cable length

500 cm

Function key

With button for switchover function

Footswitch type

Two-pedal footswitch

IP protection class

IPX8

Electrical protection class

II

# Optional Accessories

for Suction and Irrigation Systems

		for use with		
		ENDOMAT® n. HAMOU® SCB 26 3311 01-1	ENDOMAT® LC SCB 20 3303 01-1	DUOMAT® 20 3210 08
	26 3100 50 <b>Irrigation Liquid Bottle, 1 l, sterilizable</b>	-	-	•
	20 3000 50 <b>Suction Bottle, 5 l, sterilizable</b>	•	-	•
	20 3000 34 <b>Bottle Cap, for suction bottles 1.5 l and 5 l, sterilizable</b>	•	-	•
	20 3000 32 <b>Bottle Stand, for suction bottle 5 l</b>	•	-	•
	20 3000 33 <b>Bottle Stand Holder, for Bottle Stand 20 3000 32</b>	•	-	•
	20 0142 30 <b>One-Pedal Footswitch, digital, two-stage, for activating a higher flow for improved visibility</b>	-	•	-
	20 0141 30 <b>One-Pedal Footswitch, digital, one-stage, for irrigation</b>	-	•	-
	20 3004 82 <b>Connector Set, for ENDOMAT® LC, for use with Silicone Tubing Sets 20 3303 40, 20 3303 41 and 20 3303 43</b>	-	•	-
	20 3303 82 <b>Pump Tube, sterilizable, package of 25</b>	-	•	-

SUCTION AND IRRIGATION SYSTEMS

2-15

# ROBI® Bipolar Grasping Forceps <sup>NEW</sup>

rotating, dismantling, with connector pin for bipolar coagulation, CLERMONT-FERRAND model

Size 5 mm



Operating instruments, **length 36 cm**, for use **with trocars size 6 mm**

Operating instruments, **length 43 cm**, for use with telescopes with inbuilt working channel and trocars size 6 mm

Outer Sheath	Handle
	38151
Length 36 cm	
Length 43 cm	

## Double action jaws

Working insert	Complete Instrument
38610 ON	38651 ON
38710 ON	38751 ON
<p>18</p>	<p><b>ROBI® Grasping Forceps</b>, CLERMONT-FERRAND model, fenestrated, with especially fine atraumatic serration</p>
38610 WA	38651 WA
<p>19</p>	<p><b>ROBI® WATTIEZ Grasping Forceps</b>, with multiple teeth, for atraumatic and accurate grasping</p>
38610 MD	38651 MD
38710 MD	38751 MD
<p>19</p>	<p><b>ROBI® KELLY Dissecting and Grasping Forceps</b>, CLERMONT-FERRAND model, especially suitable for dissection</p>
38610 ML	38651 ML
<p>24</p>	<p><b>ROBI® KELLY Dissecting and Grasping Forceps</b>, CLERMONT-FERRAND model, especially suitable for dissection</p>
38610 MA	38651 MA
<p>24</p>	<p><b>ROBI® MALZONI Dissecting and Grasping Forceps</b>, especially suitable for dissection</p>

5 mm

### Please note:

For the instrument only the **individual component parts** are numbered. The catalog number for the **complete instrument** is not on the instrument. Please take this number from the numbers indicated in the **red** background of the table above. The color **green** indicates the working inserts.

**Bipolar High Frequency Cords** see accessories page 158

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