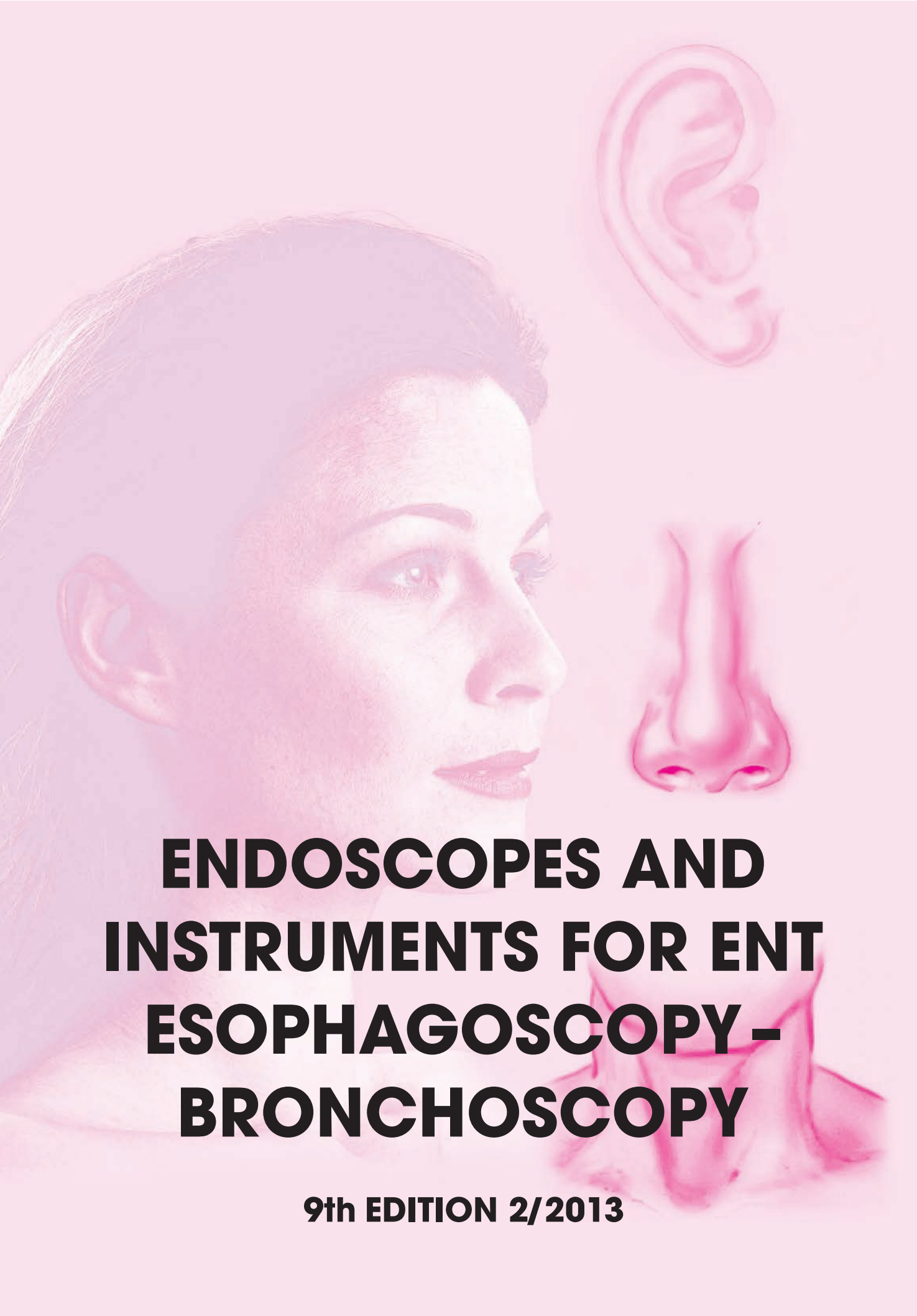


ENDOSCOPES AND INSTRUMENTS FOR ENT ESOPHAGOSCOPY - BRONCHOSCOPY

9th EDITION 2/2013

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STORZ



THE WORLD OF ENDOSCOPY

Not all the products listed in this document are certified according to Regulation 2017/745/EU.

For this reason, some products requiring certification under this regulation may not be available in these countries.

ENDOSCOPES AND INSTRUMENTS FOR ENT ESOPHAGOSCOPY – BRONCHOSCOPY

9th EDITION 2/2013

Important Notes:

Endoscopes and accessories contained in this catalog have been designed in part with the cooperation of physicians and are manufactured by the KARL STORZ group. If subcontractors are hired to manufacture individual components, these are made according to proprietary KARL STORZ plans or drawings. Furthermore, these products are subject to strict quality and control guidelines of the KARL STORZ group. Both contractual and general legal provisions prohibit subcontractors from supplying components manufactured by order of KARL STORZ to competitors.

Any assumptions that competitors' endoscopes and accessories are acquired from the same suppliers as the KARL STORZ products are not correct. Moreover, endoscopes and instruments provided by competitors are not manufactured according to the design specifications of KARL STORZ. This means it cannot be assumed that these endoscopes and accessories – even if they look identical on the outside – are constructed in the same manner and have been tested according to the same criteria.

Standardized Design and Labeling

KARL STORZ participates both in national and international bodies involved in the development of standards for endoscopes and endoscopic accessories. Standardized design and development therefore have long been implemented consistently by KARL STORZ. The user can rest assured that all products by the KARL STORZ group have been designed and constructed not only in compliance with strict internal quality guidelines, but also with international standards. All data relevant for safe use, such as viewing direction, sizes and diameters, or notes regarding sterilization of telescopes, are applied to the instruments, have been formulated according to international standards, and therefore provide reliable information.

As we constantly seek to improve and modify our products, we reserve the right to make changes in design that vary from catalog descriptions.

Original or Counterfeit

KARL STORZ products are name brand articles renowned around the world and represent the state of the art in important areas of healthcare. A large number of "copy cat" products are currently being offered in many markets. These products are designed intentionally to resemble KARL STORZ products and use marketing strategies that at least point out their compatibility with KARL STORZ products. These products are by no means genuine products, since genuine KARL STORZ products are sold worldwide exclusively under the name of KARL STORZ, which appears on the packaging and the product. In the absence of such labeling, the product is not from KARL STORZ.

KARL STORZ, therefore, is unable to ensure that such products are actually compatible with genuine KARL STORZ products or can be used with them without injury to the patient.

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HEADMIRRORS - HEADLIGHTS

Headmirrors



074090

074090 **Headmirror Standard,** with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, narrow

075090 **Headmirror Standard,** with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, wide



076090

076090 ZIEGLER **Headmirror,** replaceable mirror, diameter 90 mm, including:
Headband, narrow

077090 ZIEGLER **Headmirror,** replaceable mirror, diameter 90 mm, including:
Headband, wide

5-875

Components/Spare Parts see chapter 16

LED Headlight
POWER OF LIGHT

Special Features:

- **Integrated battery/battery light source allows more freedom of movement**
- **No separate light source required**
- **No separate light cable required**
- **No mains supply required**
- **Low energy consumption**
- **No need to change lamp (50,000 hours service life)**
- **Available as rechargeable and battery versions**
- **More brightness and luminosity compared to warm light headlights**
- **Versions with white or yellow light available; both ensure that tissue structure can be recognized in their true colors**
- **Minimal heat generation**
- **Luminous field can be focused – adjustable from 10 to 100 mm at a working distance of 40 cm**
- **Soft, flexible headband ensures optimal fitting**
- **Ergonomic fit**
- **Easy vertical and horizontal adjustment to the shape of the head**
- **Individual adjustment possible during wear**
- **Optional: Extension Cable 094105 for attaching the battery and/or rechargeable battery box to OR clothing**



094100 – 094130

11-05

LED Headlight
POWER OF LIGHT

KARL STORZ — ENDOSKOPE

Battery Versions

094100 **LED Headlight,** light model, **with white light,** battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Battery Box
2x **Photo Batteries,** lithium, 3 V, CR 123 A

094110 **Same,**
with yellowish light

Rechargeable Battery Versions

094120 **LED Headlight,** light model, **with white light,** rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Rechargeable Battery Box, with 1 Li-Ion rechargeable battery
Battery Charger Li-Ion
Mains Cord

094130 **Same,**
with yellowish light

3-07$_1$

Components/Spare Parts see chapter 16

Headlight KS60

with Cold Light Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Luminous field can be focused – adjustable from 20 to 80 mm at a working distance of 40 cm – resulting in brightness of over 175,000 lux**
- **Double lens system provides outstanding illumination in the depths of the operating field**
- **Precise delineation and no luminous field color margins**
- **Homogeneous illumination of the luminous field without shadows**
- **Lightweight headband provides improved comfort, also suitable for a small head size, can be adjusted both horizontally and vertically**
- **Sterilizable handle allows adjustment under sterile conditions, movable and height adjustable**
- **Light cable is divided in the head area, ensuring even distribution of weight**
- **Extremely robust and flexible light cable due to special protective casing**
- **Convenient light cable length of 290 cm provides greater freedom of movement**



310060/310061



310060 **Headlight KS60,** with double lens system and Y-fiber optic light cable, >175,000 lux, illuminated area adjustable from 20 – 80 mm in diameter with 40 cm working distance, with removable and sterilizable focus handle

including:

Headband

Y-Fiber Optic Light Cable

Clip with Band



310061 **Same,**

including:

Y-Fiber Optic Light Cable, with 90° deflection to the cold light source

11-05$_2$

Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Excellent illumination in the depth of the operating field**
- **Ideally suited for all areas of medicine**
- **150 percent more brightness in comparison to standard headlights**
- **Diameter of light field can be adjusted from 10 to 60 mm**
- **Sterilizable handle, removable**
- **Headlight can be adjusted with the sterile hand**
- **Comfortable, adjustable headband, including forehead cushion with push-button lock**
- **Clip for attaching the fiber optic light cable to OR clothing**



094051/094055



094051 **Headlight,** with ball joint and vertical height adjustment, front section movable in all directions, with removable and sterilizable focus handle

including:

Headband
Fiber Optic Light Cable
Clip with Band



094055 **Same,**

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

4-95₂

Headlights

with Cold Light Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Homogeneous, clearly defined light field**
- **Shadow-free illumination**
- **No color margins**
- **Greatly enhanced brightness**
- **Optimal wearing comfort**
- **Considerably lighter**
- **Ergonomic design**
- **Tried and tested standard model for examinations and operations**
- **Diameter of light field (20 – 80 mm) can be adjusted via the aperture**



310010/310015



310020/310025



310010 **Headlight,** light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band

310020 **Same,**

including:

Headband, with cross band



310015 **Headlight,** light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the cold light source

including:

Headband

Clip with Band

310025 **Same,**

including:

Headband, with cross band

3-07$_1$

Components/Spare Parts see chapter 16

Headlights

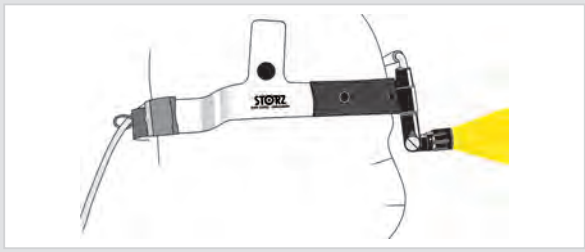
with Cold Light Illumination

KARL STORZ — ENDOSKOPE

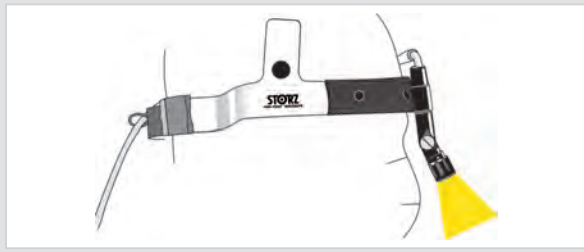
Special Features:

- **Headlight can be adjusted in 3 dimensions: height adjustment on the headband, front can be turned 45° to the right or left and also tilted horizontally downwards to a max. of 165°**
- **Headlight is self-retaining in all positions; no deviation from the selected position**
- **Protective ring for the front lens prevents damage**
- **Uniformly bright field of vision**
- **Small, lightweight model with thin fiber optic light cable, total weight of only 300 g**
- **Fiber optic light cable can be connected to either the left or the right of the headband**
- **Wide headband with bridges on either side to prevent slipping is comfortable to wear**
- **Replaceable forehead cushion**
- **Recommended for use with spectacle loupes**

90° position



165° position





094301/094305



094301

Headlight, lightweight model, illuminated area 65 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



094305

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

4-95₂

Headlights

with Cold Light Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Advanced model of 094301 headlight**
- **Diameter of light field can be adjusted from 30 to 230 mm**

Available in 2 models:

- **With integral fiber optic light cable or suitable for attachable fiber optic light cable**



094320/094325



094330



094320 **Headlight,** light model, illuminated area adjustable from 30 – 230 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source
including:
Headband
Clip with Band



094325 **Same,**
including:
Fiber Optic Light Cable, with 90° deflection to the cold light source

094330 **Headlight,** light model, illuminated area adjustable from 30 – 230 mm with 40 cm working distance, with connection for use with thin, 230 cm long Fiber Optic Light Cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the cold light source
including:
Headband
Clip with Band



495 NTAS



495 NTXS

For use with Headlight 094330:

495 NTAS **Fiber Optic Light Cable,** diameter 2.5 mm, length 230 cm

or

495 NTXS **Fiber Optic Light Cable,** with 90° deflection to the cold light fountain, diameter 2.5 mm, length 230 cm

4-95$_2$

Components/Spare Parts see chapter 16

Headlight “CLAR 73”

with Cold Light Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Homogeneous, clearly defined light field**
- **Shadow-free illumination**
- **Mirror with slit for monocular viewing**
- **Concave mirror set in solid, protective mounting**
- **Optimum comfort with headband; normal glasses can be worn**

Special Features:

- **Tried and tested standard model for examinations and operations**
- **Diameter of the light field can be changed by means of the aperture setting**
- **Weight: 400 g**
- **With Headband 078730, vertical cable guide, for fiber optic light cable diameter 3.5 mm**



095501/095505



095501 **Headlight “CLAR 73”,** with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



095505 **Same,**

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

8-99$_3$

Components/Spare Parts see chapter 16

Headbands

for Cold Light Illumination

KARL STORZ — ENDOSKOPE



310070

310070 **Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlight 310060/310061



310075

310075 **Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting, for Headlight 310010/310015



310076

310076 **Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting, for Headlight 310020/310025



078730

078730 **Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505



078740

078740 **Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094305, 094320, 094325 and 094330



078760

078760 **Headband,** for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlights 094100, 094110, 094120 and 094130, including Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



078681

078681 **Clip with Band,** for attaching fiber optic light cable to OR clothing



094105

094105 **Extension Cable,** for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

9-032

Components/Spare Parts see chapter 16



OTOLOGY

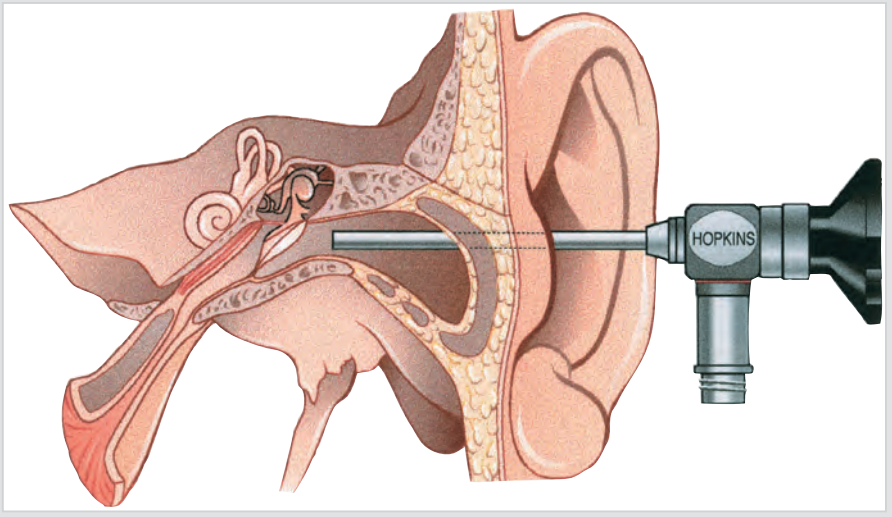
Otoscopy

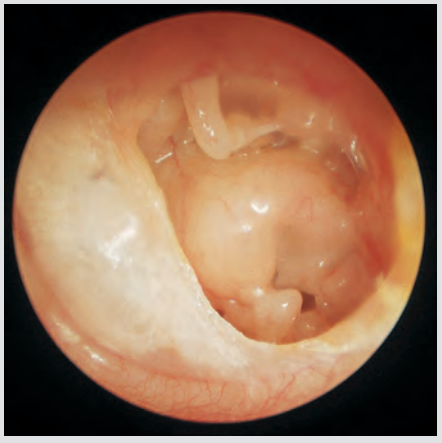
with HOPKINS® Telescopes

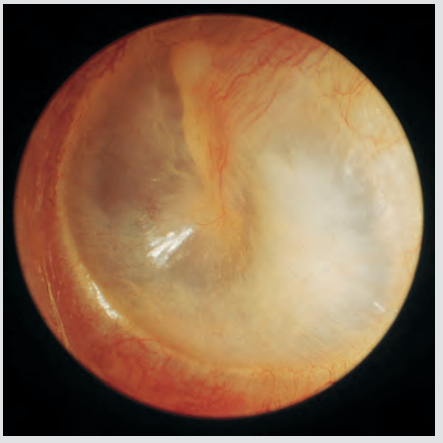
KARL STORZ — ENDOSKOPE

Special Features:

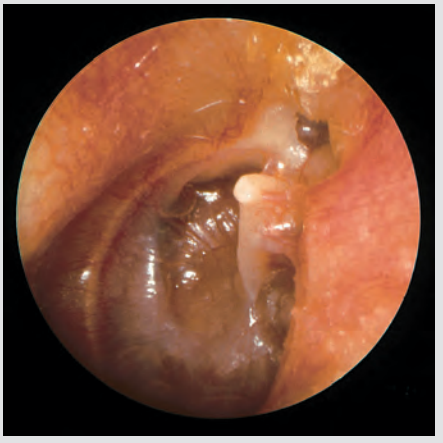
- **Ideal for overview of the entire eardrum**
- **The wide angle lens enables a natural, undistorted, panoramic overview of the complete eardrum**
- **Clear, bright and extremely sharp picture with high resolution and sharpness in depth**
- **HOPKINS® telescopes 4 mm for adults, 3 and 2.7 mm for small children or particularly narrow auditory canal, as well as 1.9 mm for use through an incision in the eardrum**











2-94

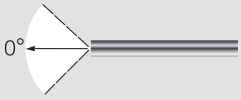
HOPKINS® Telescopes

for Preoperative and Postoperative Examination of the Middle Ear

KARL STORZ — ENDOSKOPE

Diameter 1.9 mm, length 10 cm

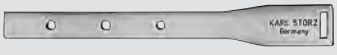




1232 AA — **HOPKINS® Straight Forward Telescope 0°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



1232 BA — **HOPKINS® Forward-Oblique Telescope 30°,** diameter 1.9 mm, length 10 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

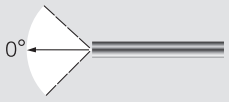


723750 A — **Protection Tube,** for HOPKINS® telescopes with length of 6 – 11 cm

3-99₂

Diameter 3 mm, length 6 cm





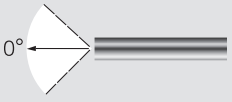
1218 AA — **Tele-Otoscope** with **HOPKINS® Straight Forward Telescope 0°,** diameter 3 mm, length 6 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



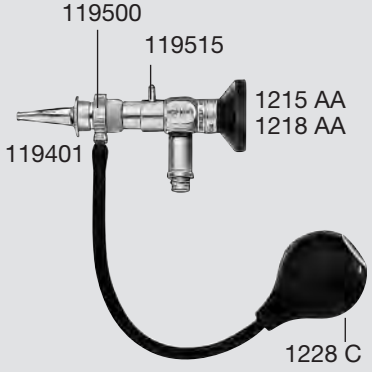
1218 BA — **Tele-Otoscope** with **HOPKINS® Forward-Oblique Telescope 30°,** diameter 3 mm, length 6 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Diameter 4 mm, length 6 cm





1215 AA — **Tele-Otoscope** with **HOPKINS® Straight Forward Telescope 0°,** diameter 4 mm, length 6 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

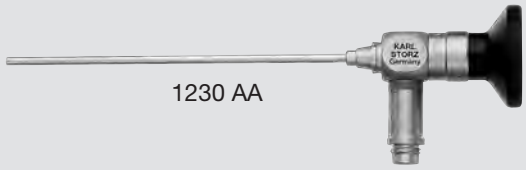


119500 — HAWKE **Pneumatic Adaptor,** for Ear Specula 119401 – 119410, including rubber bulb with tube and screw-on cone, for use with Tele-Otoscope 1218 AA

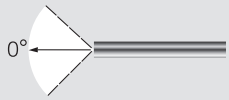
119515 — **Bridge,** for Pneumatic Adaptor 119500, for use with Tele-Otoscope 1215 AA with Ear Specula 119401 – 119404 and Tele-Otoscope 1218 AA with Ear Specula 119401 – 119410

3-994

Diameter 2.7 mm, length 11 cm



1230 AA



1230 AA — **HOPKINS® Straight Forward Telescope 0°,** diameter 2.7 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



1230 BA — **HOPKINS® Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Battery Light Source LED for Endoscopes



11301 D4



11301 DG

11301 D4	**Battery Light Source LED for Endoscopes,** with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection,** with 2 Photo Batteries 121306 P
11301 DE	**Battery Light Source LED for Endoscopes,** rechargeable, with click connection, brightness > 110 lm / >150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
11301 DF	**Same,** with fast screw thread
11301 DG	**Charging Unit,** for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
094129	**Battery Charger Li-Ion,** for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
094127	**Mains Cord,** for Battery Charger 094129, length 150 cm

Components/Spare Parts see chapter 16

3-99$_4$

CMOS Video Otoscope NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **For imaging and documentation of the auditory canal and eardrum**
- **High-resolution CMOS sensor**
- **Integrated LED illumination with high light intensity**
- **First-class optical system**
- **Optimal hygiene via exchangeable, disposable ear specula**
- **Lightweight, ergonomic design**
- **Manual focus ring**
- **Compatible with KARL STORZ C-MAC® monitor system and C-HUB® camera control unit**



121200 K

121200 K **CMOS Video Otoscope KIT,** with integrated LED illumination, for use with C-HUB® **20** 2901 01 and Monitor 8402 ZX

including:

Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100



20 2901 01



8402 ZX

121200 C **CMOS Video Otoscope with C-HUB®,** with integrated LED illumination

including:

Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100

C-HUB® CMOS Camera Control Unit,
Interfaces: USB 2.0, S-Video output (NTSC), power socket

Power Supply

S-Video (Y/C) Connecting Cable

USB Connecting Cable

121200 M **CMOS Video Otoscope with Monitor,** with integrated LED illumination

including:

Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100

Monitor, screen size 7", memory option with SD card, rechargeable battery, power adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, suitable for wipe disinfection

Accessory:

121204 **Ear Speculum,** for CMOS video otoscope, outer diameter 4 mm, black, for single use, unsterile, package of 1000

Components/Spare Part see catalog TELEPRESENCE

8-11

Ear



121300

121300 HEINE **Otoscope,** otoscope head with fiber optic light transmission incorporated
including:
Ear Specula, outer diameter 2.5 – 5 mm
Battery Handle
2x **1.5 Volt Battery**
Spare Lamp



121302 – 121305

○ 121302 **Ear Speculum,** reusable, black, outer diameter 2.5 mm
○ 121303 **Same,** outer diameter 3 mm
◯ 121304 **Same,** outer diameter 4 mm
◯ 121305 **Same,** outer diameter 5 mm

121320 HEINE **Otoscope Head,** fiber optic light transmission incorporated, for use with Battery Handles 8565 B/BC/C
including:
Ear Specula, outer diameter 2.5 – 5 mm
Spare Lamp



121332
121334

○ 121332 **Ear Specula for single use,** gray, outer diameter 2.5 mm, for children, package of 1000
◯ 121334 **Same,** outer diameter 4 mm, for adults



8565 B/C

8565 B **Battery Handle,** 3.5 Volt
including:
Rack
Charger, power supply 220 – 240 VAC

8565 C **Battery Handle,** 3.5 Volt
including:
Rack
Charger, power supply 115 VAC

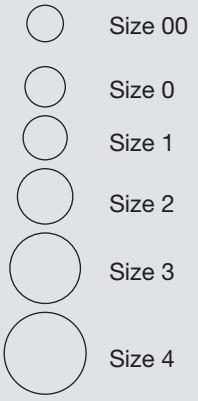
Components/Spare Parts see chapter 16

3-99₃

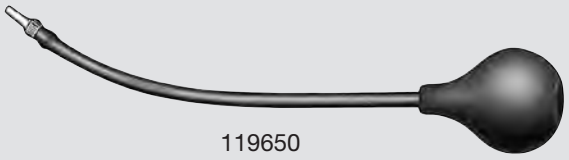
Ear



119420 –
119404



Size 00	119420	BRÜNINGS **Ear Speculum,** size 00, outer diameter 4 mm
Size 0	119410	**Same,** size 0, outer diameter 4.5 mm
Size 1	119401	**Same,** size 1, outer diameter 6 mm
Size 2	119402	**Same,** size 2, outer diameter 7.5 mm
Size 3	119403	**Same,** size 3, outer diameter 9.5 mm
Size 4	119404	**Same,** size 4, outer diameter 11 mm



119650

119650 **Rubber Bulb,** for pneumatic testing, with record cone, for Diagnostic Heads 119700 – 120600



119700

119700 SIEGLE **Diagnostic Head,** without magnification



119800

119800 BRÜNINGS **Diagnostic Head,** with magnification, anastigmatic



119900

119900 FRENZEL **Operating Head,** with wall detail, with magnification, anastigmatic

3-99₃

Components/Spare Parts see chapter 16

Ear



122003 –
122007

3 mm	122003	HARTMANN **Ear Speculum,** standard model, outer diameter 3 mm, length 3.6 cm
4 mm	122004	**Same,** outer diameter 4 mm
5 mm	122005	**Same,** outer diameter 5 mm
6 mm	122006	**Same,** outer diameter 6 mm
7,5 mm	122007	**Same,** outer diameter 7.5 mm



122503 –
122505

3 mm	122503	HARTMANN **Ear Speculum,** short, for children, outer diameter 3 mm, length 2.7 cm
4 mm	122504	**Same,** outer diameter 4 mm
5 mm	122505	**Same,** outer diameter 5 mm



123008
123009

8,5 mm	123008	BOUCHERON **Ear Speculum,** for postoperative treatment, outer diameter 8.5 mm, length 3.6 cm
10 mm	123009	**Same,** outer diameter 10 mm

3-992



123031 – 123037

	4 mm	123031	FARRIOR **Ear Speculum,** round, size 1, outer diameter 4 mm, length 4.5 cm
	5 mm	123032	**Same,** size 2, outer diameter 5 mm
	6 mm	123033	**Same,** size 3, outer diameter 6 mm
	7 mm	123034	**Same,** size 4, outer diameter 7 mm
	8 mm	123035	**Same,** size 5, outer diameter 8 mm
	9 mm	123036	**Same,** size 6, outer diameter 9 mm
	10 mm	123037	**Same,** size 7, outer diameter 10 mm



123041 – 123049

	4.0 x 4.8 mm	123041	FARRIOR **Ear Speculum,** oval, size 1, 4.0 x 4.8 mm, length 4.3 cm
	5.0 x 5.8 mm	123042	**Same,** size 2, 5.0 x 5.8 mm
	5.5 x 6.3 mm	123043	**Same,** size 3, 5.5 x 6.3 mm
	6.0 x 6.8 mm	123044	**Same,** size 4, 6.0 x 6.8 mm
	6.5 x 7.3 mm	123045	**Same,** size 5, 6.5 x 7.3 mm
	7.0 x 7.8 mm	123046	**Same,** size 6, 7.0 x 7.8 mm
	7.5 x 8.3 mm	123047	**Same,** size 7, 7.5 x 8.3 mm
	8.0 x 8.8 mm	123048	**Same,** size 8, 8.0 x 8.8 mm
	8.5 x 9.3 mm	123049	**Same,** size 9, 8.5 x 9.3 mm



123205 – 123207

123205	HOLMGREEN **Endaural Ear Speculum,** self-retaining, outer diameter 5 mm	
123206	**Same,** outer diameter 6 mm	
123207	**Same,** outer diameter 7 mm	

3-99$_2$

Ear



125300
125400



125500
125600
125700
125800



125501
125601



126000



126100



130000

125300	**Tuning Fork,** C-128, with weights
125400	**Same,** C^1-256, with weights
125500	**Same,** C^2-512, without weights
125600	**Same,** C^3-1024, without weights
125700	**Same,** C^4-2048, without weights
125800	**Same,** C^5-4096, without weights
125501	**Tuning Fork,** C^2-512, without weights, with stand
125601	**Tuning Fork,** C^3-1024, without weights, with stand
126000	**Tuning Fork,** A^1-440, with stand
126100	**Same,** small model
130000	BARANY **Noise Apparatus,** with ear olive

3-994

Components/Spare Parts see chapter 16



138805



138905

138805	FRENZEL **Nystagmus Spectacles,** black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V
138905	FRENZEL **Nystagmus Spectacles,** black frame, with attached, adjustable battery handle and ventilation slots, including 2 Lamps 138964, 4 V, for use with 3 Batteries 121306 (not included in delivery)

8-11

Components/Spare Parts see chapter 16

Ear



142000



142418 –
142422



142700



143800

○ 146001
○ 146002



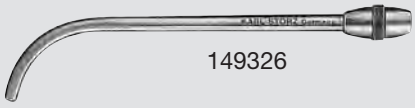
146001
146002



148500



149325



149326

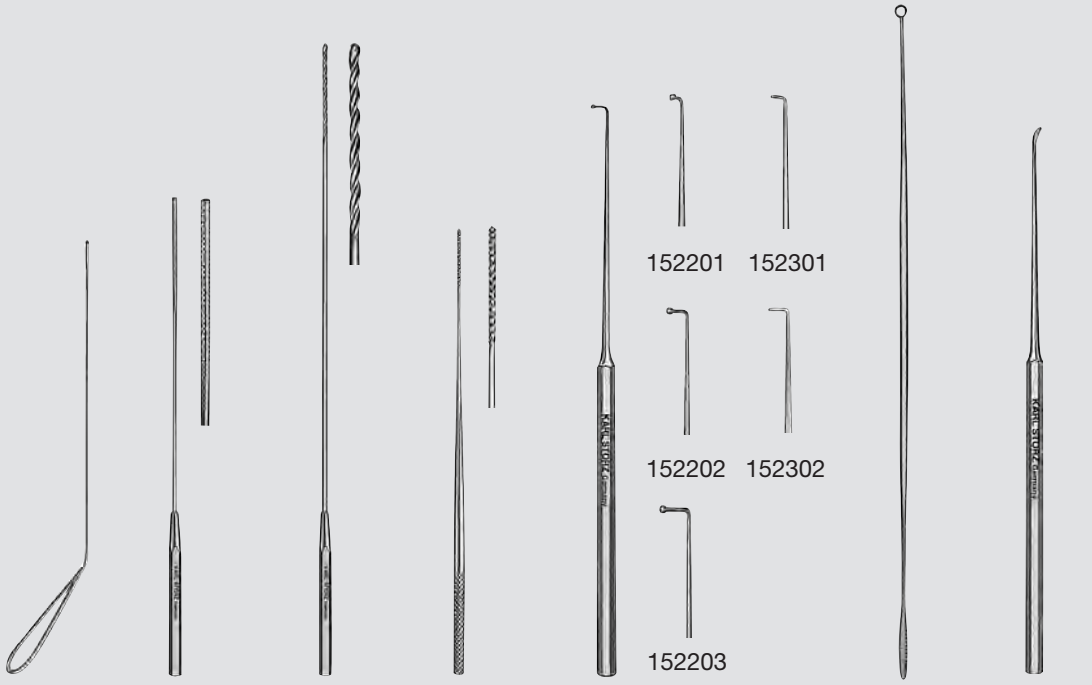


149320

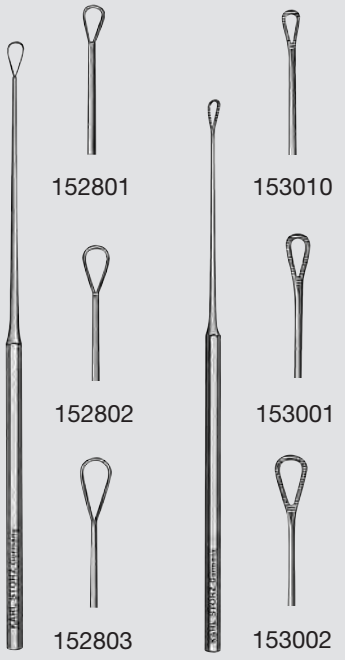
142000	POLITZER **Air Bag,** with metal cone, 8 oz.
142418	**Nasal Olive,** metal, size 18 mm
142420	**Same,** size 20 mm
142422	**Same,** size 22 mm
142700	**Metal Connector,** for 142000, 146001 and 146002
143800	**Rubber Balloon,** for eustachian catheter, 2 ½ oz.
146001	HARTMANN **Eustachian Catheter,** size 1, length 13.5 cm, olive diameter 2.8 mm
146002	**Same,** size 2, olive diameter 3.2 mm
148500	JANSEN **Diagnostic Tube,** extra light, with 1 black tip for doctor and 6 patient tips, in 3 sizes, with stand
148501	**Same,** with 1 black tip for doctor and 1 tip for patient
148608	**Ear Tip,** only, diameter 8 mm
148609	**Same,** diameter 9 mm
148610	**Same,** diameter 10 mm
148710	**Ear Tip,** black, diameter 10 mm
149320	KABIERSKE **Powder Blower**, with large bottle, with 1 straight Cannula 149325 and 1 curved Cannula 149326

Components/Spare Parts see chapter 16

3-99

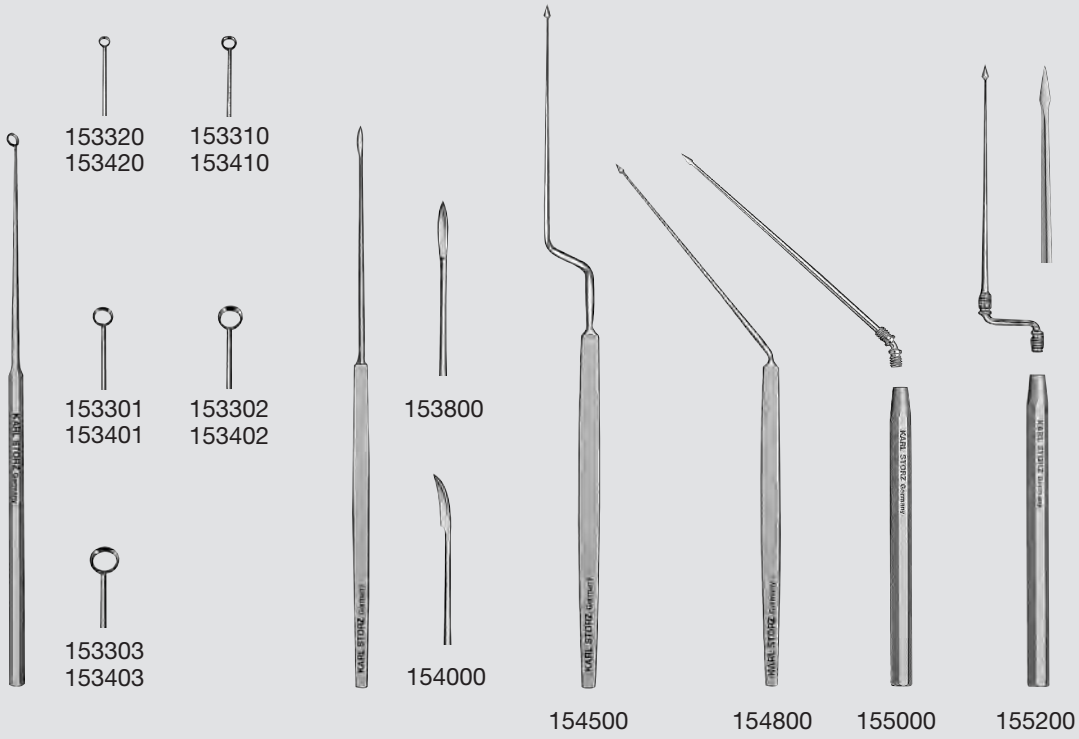


150100 | 151007 – 151013 | 151213 | 151500 | 152400 | 152600



150100	STACKE **Ear Probe,** silver, length 10.5 cm
151007	**Cotton Applicator,** standard model, triangular serrated, diameter 0.7 mm, working length 13 cm
151009	**Same,** diameter 0.9 mm
151011	**Same,** diameter 1.1 mm
151013	**Same,** diameter 1.3 mm
151213	**Cotton Applicator,** with thread, diameter 1.3 mm, working length 17.5 cm
151500	FROHN **Cotton Applicator,** with thread, working length 12.5 cm
152201	WAGENER **Ear Hook,** with ball end, size 1, length 15.5 cm
152202	**Same,** size 2
152203	**Same,** size 3
152301	**Ear Hook,** without ball end, size 1, length 15.5 cm
152302	**Same,** size 2
152400	JOBSON-HORNE **Probe,** working length 18 cm
152600	ZAUFAL **Ear Spatula,** length 14.5 cm
152801	BILLEAU **Ear Loop,** size 1, length 16 cm
152802	**Same,** size 2
152803	**Same,** size 3
153010	WEBER-LOCH **Ear Loop,** size 0, length 14.5 cm
153001	**Same,** size 1
153002	**Same,** size 2

3-99

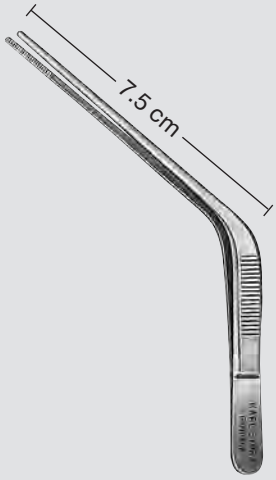


153320	BUCK **Ear Curette,** blunt, size 00, length 14.5 cm
153310	**Same,** size 0
153301	**Same,** size 1
153302	**Same,** size 2
153303	**Same,** size 3
153420	BUCK **Ear Curette,** sharp, size 00, length 14.5 cm
153410	**Same,** size 0
153401	**Same,** size 1
153402	**Same,** size 2
153403	**Same,** size 3
153800	POLITZER **Ear Knife,** straight, working length 6.5 cm
154000	**Same,** curved
154500	TRAUTMANN **Ear Knife,** delicate, bayonet-shaped, working length 7.5 cm
154800	POLITZER **Ear Knife,** delicate, angular, working length 7.5 cm
155000	**Ear Knife,** screw handle, angular, working length 8 cm
155200	**Same,** bayonet-shaped

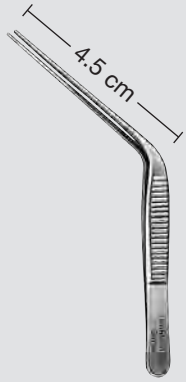
3-99₂



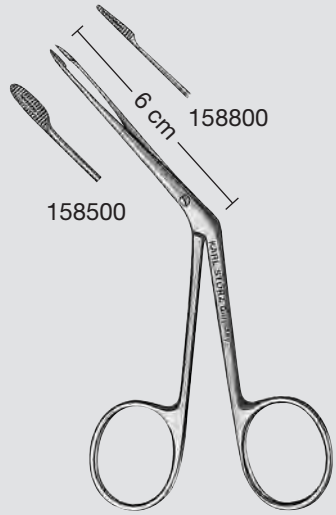
156000



157000

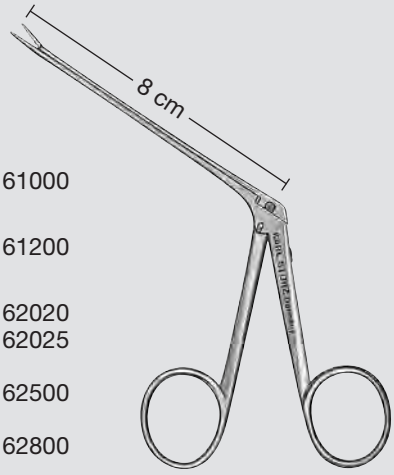


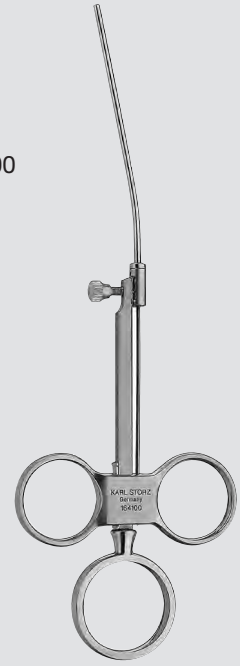
157100



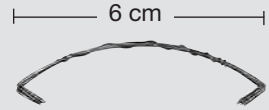


161000
161200
162020
162025
162500
162800





164100



164800

156000	LUCAE **Ear Forceps,** bayonet-shaped, length 14.5 cm
157000	TRÖLTSCH **Ear Dressing Forceps,** serrated, standard model, working length 7.5 cm
157100	TRÖLTSCH **Ear Dressing Forceps,** serrated, small and delicate, working length 4.5 cm
158500	HARTMANN **Ear Dressing Forceps,** slender, working length 6 cm
158800	**Same,** extra delicate
161000	HARTMANN **Ear Forceps,** serrated, working length 8 cm
161200	**Ear Forceps,** duckbill, flat, serrated jaws, working length 8 cm
162020	HARTMANN **Ear Forceps,** round cupped jaws, diameter 2 mm, working length 8 cm
162025	**Same,** diameter 2.5 mm
162500	STRÜMPEL **Ear Forceps,** working length 8 cm
162800	HARTMANN **Ear Forceps,** through-cutting, straight, working length 8 cm
164100	KRAUSE **Ear Snare,** length 18 cm
164800	**Snare Wire,** for Ear Snares 164100, package of 25

3-99

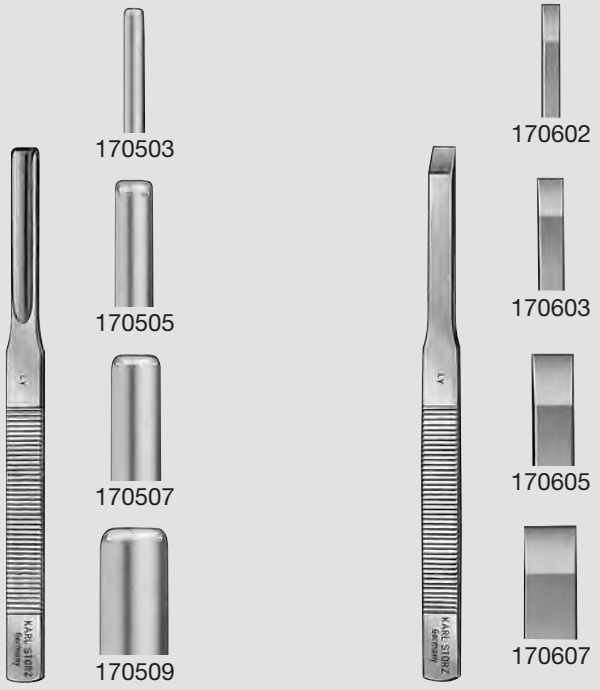
Ear



168000 | 169009 | 169011 169014 | 169018 | 169027 | 169106 | 169206 | 169311 | 169503 169506

168000	MUCK **Periosteal Knife,** length 13 cm
169009	JANSEN **Raspatory,** width 9 mm, length 19.5 cm
169011	**Same,** width 11 mm
169014	**Same,** width 14 mm
169018	LANGENBECK **Raspatory,** width 18 mm, length 19 cm
169027	JANSEN **Raspatory,** width 9 mm, length 17 cm
169106	v. EICKEN **Raspatory,** width 6 mm, length 19.5 cm
169206	**Raspatory,** ERLANGEN model, slightly curved, width 6 mm, length 17.5 cm
169203	**Same,** width 3 mm
169204	**Same,** width 4 mm
169311	FARABEUF **Raspatory,** width 11 mm, length 18 cm
169503	WILLIGER **Elevator,** width 3.5 mm, length 16 cm
169506	**Same,** width 5 mm

3-993



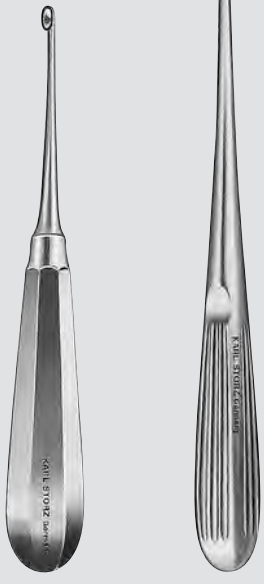
170503	TRAUTMANN **Mastoid Gouge,** width 3 mm, length 14 cm
170505	**Same,** width 5 mm
170507	**Same,** width 7 mm
170509	**Same,** width 9 mm
170602	TRAUTMANN **Mastoid Chisel,** width 2 mm, length 14 cm
170603	**Same,** width 3 mm
170605	**Same,** width 5 mm
170607	**Same,** width 7 mm

3-99$_2$



174200 174430 174700 174800

174200	COTTLE **Metal Mallet,** length 18 cm
174420	**Metal Mallet,** small model, diameter 20 mm, length 19.5 cm
174426	**Metal Mallet,** medium model, diameter 26 mm, length 19.5 cm
174430	**Metal Mallet,** large model, diameter 30 mm, length 19.5 cm
174700	**Metal Mallet,** with plastic replacement head, small, lightweight model, length 18 cm
174800	**Metal Mallet,** with plastic replacement head, length 22.5 cm

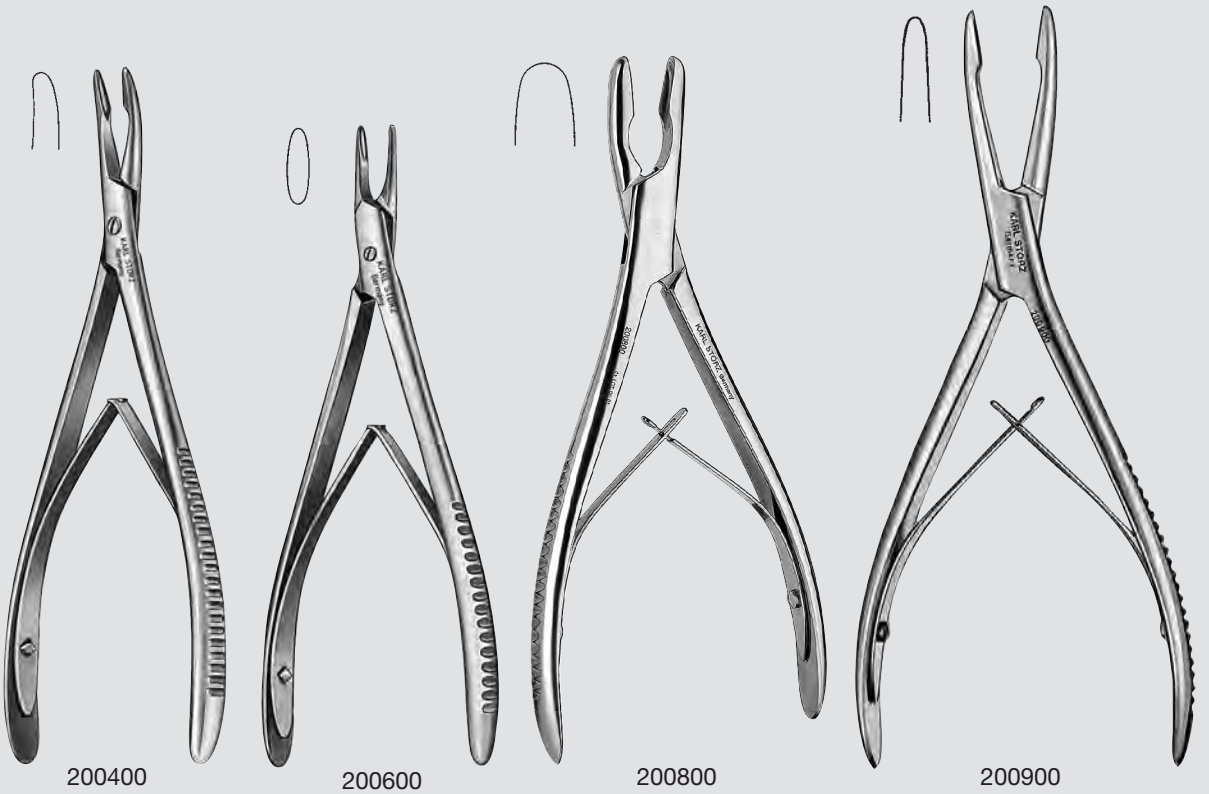


175840 – 175804 176040 – 176001

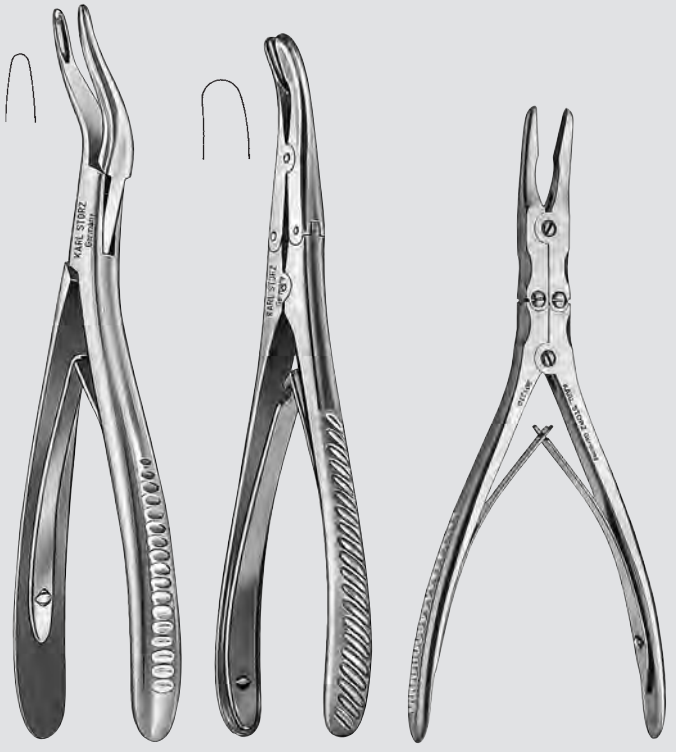
175840	SPRATT **Mastoid Curette,** size 0000, length 16.5 cm
175830	**Same,** size 000
175820	**Same,** size 00
175810	**Same,** size 0
175801	SPRATT **Mastoid Curette,** size 1, length 17 cm
175802	**Same,** size 2
175803	**Same,** size 3
175804	**Same,** size 4
176040	LEMPERT **Mastoid Curette,** size 0000, length 21 cm
176030	**Same,** size 000
176020	**Same,** size 00
176010	**Same,** size 0
176001	**Same,** size 1

Components/Spare Parts see chapter 16

3-99$_2$



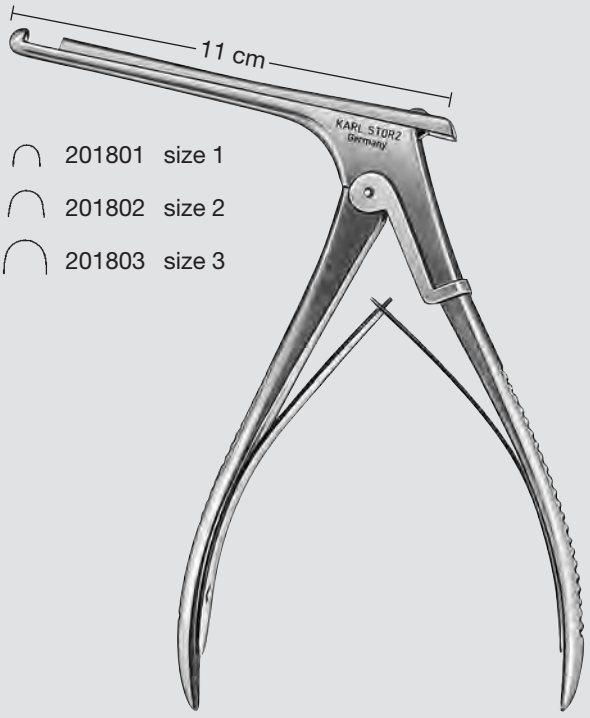
200400 200600 200800 200900



201000 201200 489044

200400	BEYER **Rongeur,** slender, curved, length 17 cm
200600	LEMPERT **Rongeur,** slender, straight, length 15.5 cm
200800	LUER-HARTMANN **Rongeur,** curved, length 17.5 cm
200900	HEANLEY **Rongeur,** straight, length 19 cm
201000	JANSEN **Rongeur,** bayonet-shaped, length 17 cm
201200	LUER-RUSKIN **Rongeur,** with double joint, curved, length 18.5 cm
489044	LUER-RUSKIN **Rongeur,** with double joint, curved, 2 mm, length 15 cm

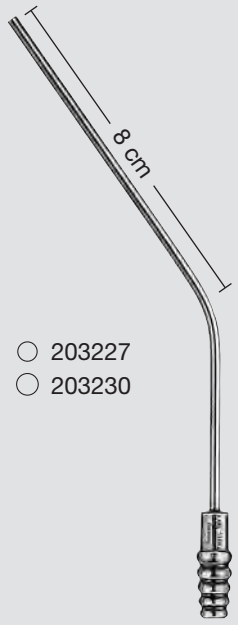
3-99$_2$



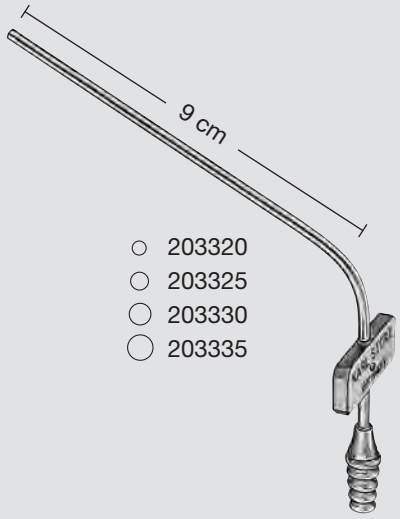
201801 –
201803

201801	KERRISON **Rongeur,** size 1, working length 11 cm
201802	**Same,** size 2
201803	**Same,** size 3

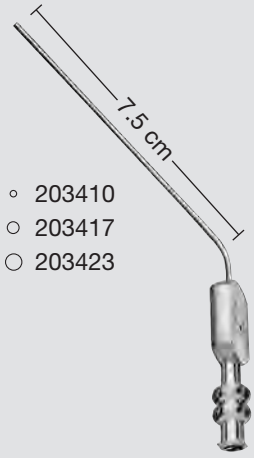
3-99$_2$



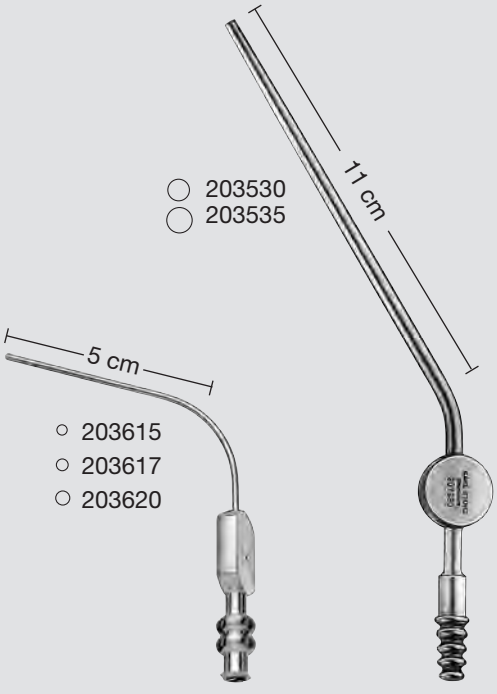
203227
203230



203320 –
203335



203410 –
203423

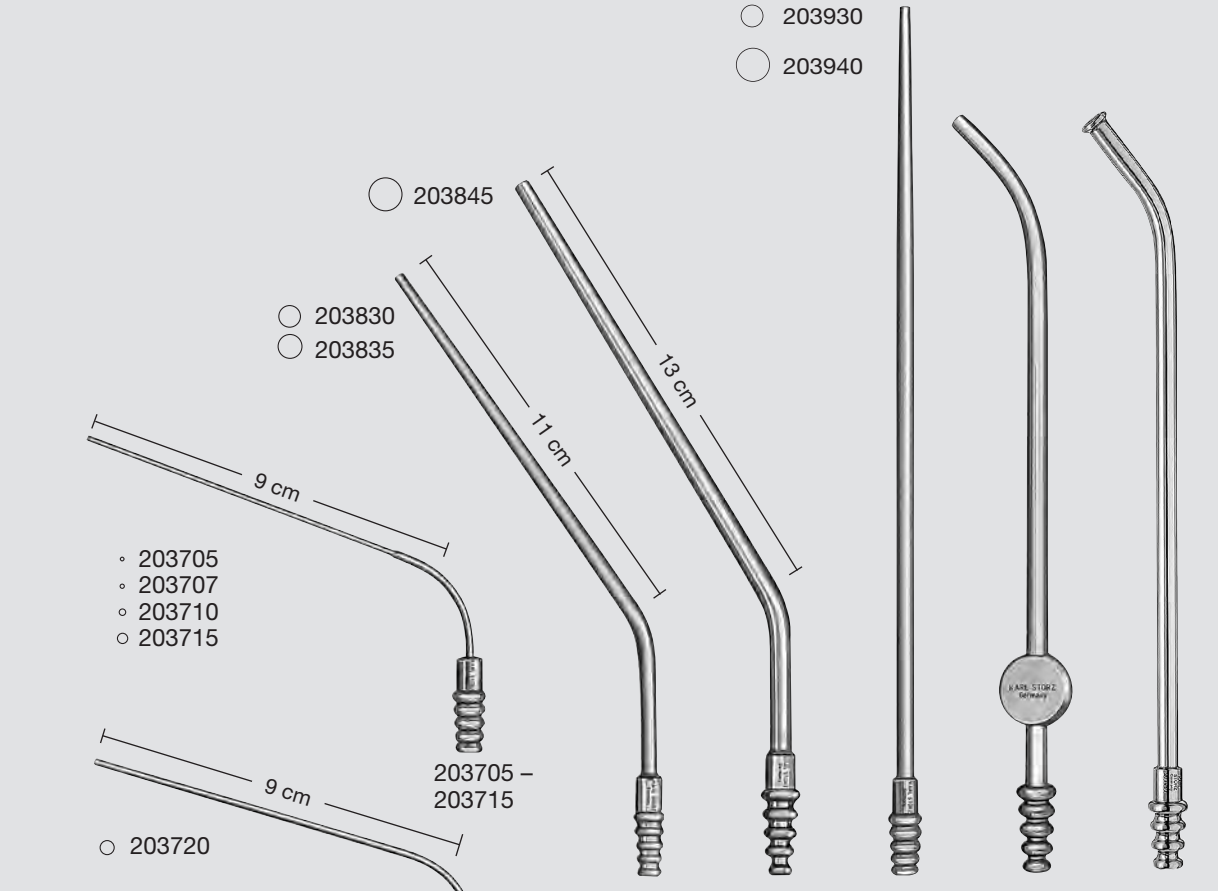


203615 –
203620

203530
203535

203227	**Suction Tube,** angular, cylindrical, LUER, outer diameter 2.7 mm, working length 8 cm
203230	**Same,** outer diameter 3 mm
203320	**Suction Tube,** angular, with grip plate and cut-off hole, LUER, outer diameter 2 mm, working length 9 cm
203325	**Same,** outer diameter 2.5 mm
203330	**Same,** outer diameter 3 mm
203335	**Same,** outer diameter 3.5 mm
203410	BARON **Suction Tube,** angular, with grip plate, cut-off hole and stylet, LUER-Lock, outer diameter 1 mm, working length 7.5 cm
203417	**Same,** outer diameter 1.7 mm
203423	**Same,** outer diameter 2.3 mm
203530	**Suction Tube,** angular, conical, LUER, with grip plate, outer diameter 3 mm, working length 11 cm
203535	**Same,** outer diameter 3.5 mm
203615	BARNES **Suction Tube,** with cut-off hole, LUER-Lock, outer diameter 1.5 mm, working length 5 cm
203617	**Same,** outer diameter 1.7 mm
203620	**Same,** outer diameter 2 mm

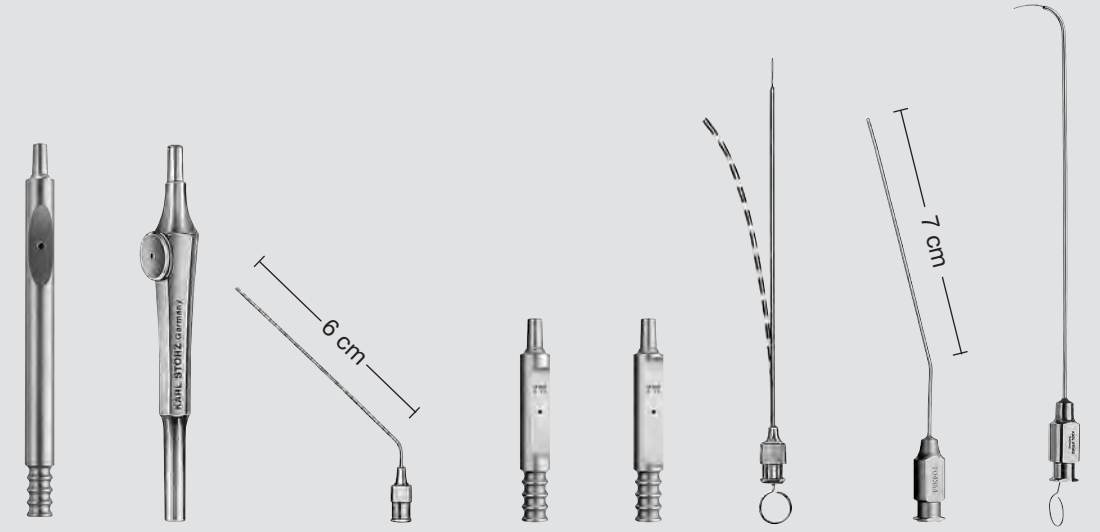
3-99$_{1}$



203705	**Suction Tube,** cylindrical, LUER, outer diameter 0.5 mm, working length 9 cm
203707	**Same,** outer diameter 0.7 mm
203710	**Same,** outer diameter 1 mm
203715	**Same,** outer diameter 1.5 mm
203720	**Same,** outer diameter 2 mm
203725 K	**Suction Tube,** cylindrical, LUER, outer diameter 2.5 mm, working length 7 cm
203725	**Same,** working length 11 cm
203730	**Suction Tube,** cylindrical, LUER, outer diameter 3 mm, working length 11 cm
203740	**Same,** outer diameter 4 mm
203750	**Same,** outer diameter 5 mm
203830	**Suction Tube,** conical, LUER, outer diameter 3 mm, working length 11 cm
203835	**Same,** outer diameter 3.5 mm
203845	**Suction Tube,** conical, LUER, outer diameter 4.5 mm, working length 13 cm
203930	**Suction Tube,** malleable, LUER, outer diameter 3 mm, length 22.5 cm
203940	**Suction Tube,** straight, cylindrical, outer diameter 4 mm, length 22.5 cm
203945	**Suction Tube,** curved, conical, outer diameter 4.5 mm, length 20 cm
203960	**Suction Tube,** curved, with olive, outer diameter 6 mm, length 19 cm

12-90₄

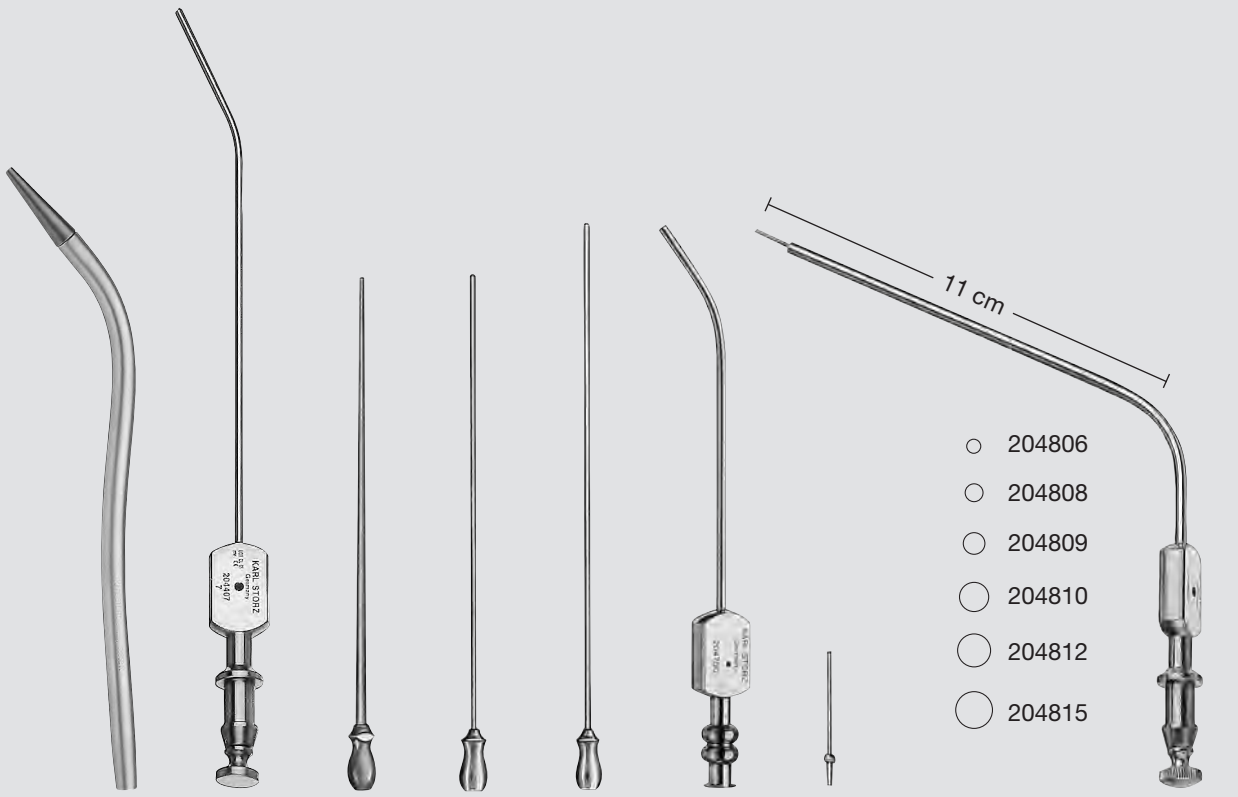
Ear



204001 204004 204005 – 204025 204200 204250 204305 – 204330 204352 204354 204362

204001	**Suction Handle,** with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330
204004	WULLSTEIN **Suction Handle,** with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330
204005	**Suction Tube,** angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm
204007	**Same,** outer diameter 0.7 mm
204008	**Same,** outer diameter 0.8 mm
204010	**Same,** outer diameter 1 mm
204013	**Same,** outer diameter 1.3 mm
204015	**Same,** outer diameter 1.5 mm
204020	**Same,** outer diameter 2 mm
204025	**Same,** outer diameter 2.5 mm
204200	FISCH **Suction Handle,** with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330
204250	FISCH **Suction Handle,** with long thumb grip, cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm, for use with Suction Tubes 204352 – 204354
204305	**Suction Tube,** straight, LUER-Lock, malleable, outer diameter 0.5 mm, length 10 cm
204307	**Same,** outer diameter 0.7 mm
204310	**Same,** outer diameter 1 mm
204313	**Same,** outer diameter 1.3 mm
204315	**Same,** outer diameter 1.5 mm
204320	**Same,** outer diameter 2 mm
204325	**Same,** outer diameter 2.5 mm
204330	**Same,** outer diameter 3 mm
204352	**Suction Tube,** angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm, for use with Handle 204250
204354	**Same,** outer diameter 1 mm
NEW 204360	**Suction Tube,** curved 6 mm, LUER-Lock, outer diameter 0.8 mm, length 10 cm
NEW 204361	**Irrigation Cannula,** curved 6 mm, LUER-Lock, outer diameter 1 mm, length 10 cm
NEW 204362	**Suction Tube,** curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 10 cm
NEW 204365	**Same,** curved 8 mm
NEW 204366	**Same,** curved 8 mm, outer diameter 1.6 mm

8-11



58952 K | 204405 – 204409 | 204500 | 204615 | 204620 | 204700 | 204705 – 204712 | 204806 – 204815

NEW 58952 K **Suction Tube,** curved, with titanium tips, slotted, inner diameter 1.5 mm, length 18 cm

NEW 58952 G **Same,** inner diameter 3 mm

204405 PLESTER **Suction Tube,** with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm

204407 **Same,** 7 Fr.

204408 **Same,** 8 Fr.

204409 **Same,** 9 Fr.

204500 WULLSTEIN **Suction and Irrigation Tube,** conical, silver, LUER, outer diameter 1 mm, length 13 cm

204615 **Suction and Irrigation Tube,** cylindrical, silver, LUER, outer diameter 1.5 mm, length 13 cm

204620 **Suction and Irrigation Tube,** cylindrical, silver, LUER, outer diameter 2 mm, length 15 cm

204700 ZÖLLNER **Suction Tube,** LUER-Lock, outer diameter 2.5 mm, length 13 cm

204705 **Suction Tip,** for 204700, outer diameter 0.5 mm, length 4 cm

204706 **Same,** outer diameter 0.6 mm

204707 **Same,** outer diameter 0.7 mm

204709 **Same,** outer diameter 0.9 mm

204712 **Same,** outer diameter 1.2 mm

204806 FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, 6 Fr., working length 11 cm

204808 **Same,** 8 Fr.

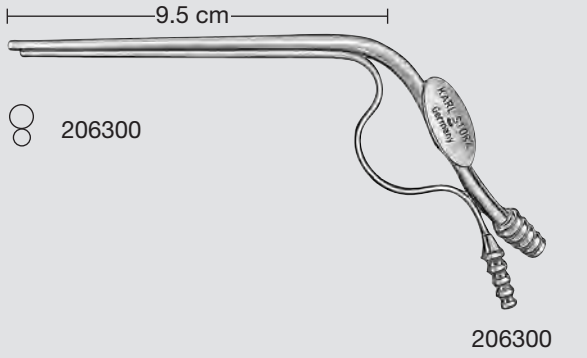
204809 **Same,** 9 Fr.

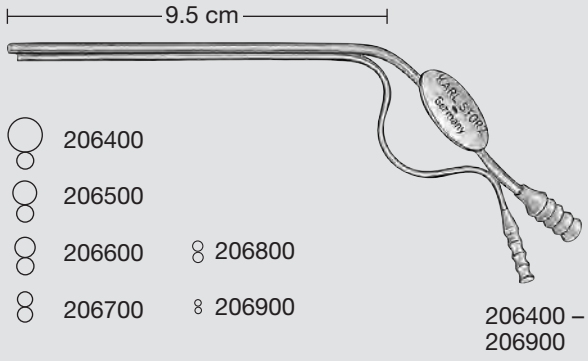
204810 **Same,** 10 Fr.

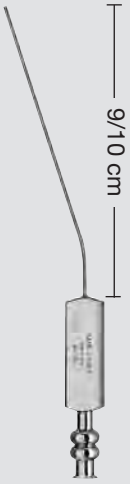
204812 **Same,** 12 Fr.

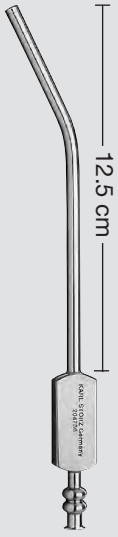
204815 **Same,** 15 Fr.

3-99₂









206300	FISCH **Suction and Irrigation Tube,** conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
206400	FISCH **Suction and Irrigation Tube,** cylindrical, suction tube outer diameter 4.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
206500	**Same,** suction tube outer diameter 3 mm, irrigation tube outer diameter 2 mm
206600	**Same,** suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm
206700	**Same,** suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm
206800	**Same,** suction tube outer diameter 1.5 mm, irrigation tube outer diameter 1.5 mm
206900	**Same,** suction tube outer diameter 1 mm, irrigation tube outer diameter 1 mm
207000	**Silicone Tubing, autoclavable,** coil length 100 cm, outer diameter 8 mm
204729	FISCH **Suction Tube,** angular, with grip plate, outer diameter 1.2 mm, working length 9 cm
204730	**Same,** outer diameter 1.5 mm
204732	**Same,** outer diameter 2 mm
204733	**Same,** outer diameter 2.2 mm
204735	**Same,** outer diameter 3 mm, working length 10 cm
204738	**Same,** outer diameter 5 mm, working length 12.5 cm

3-99



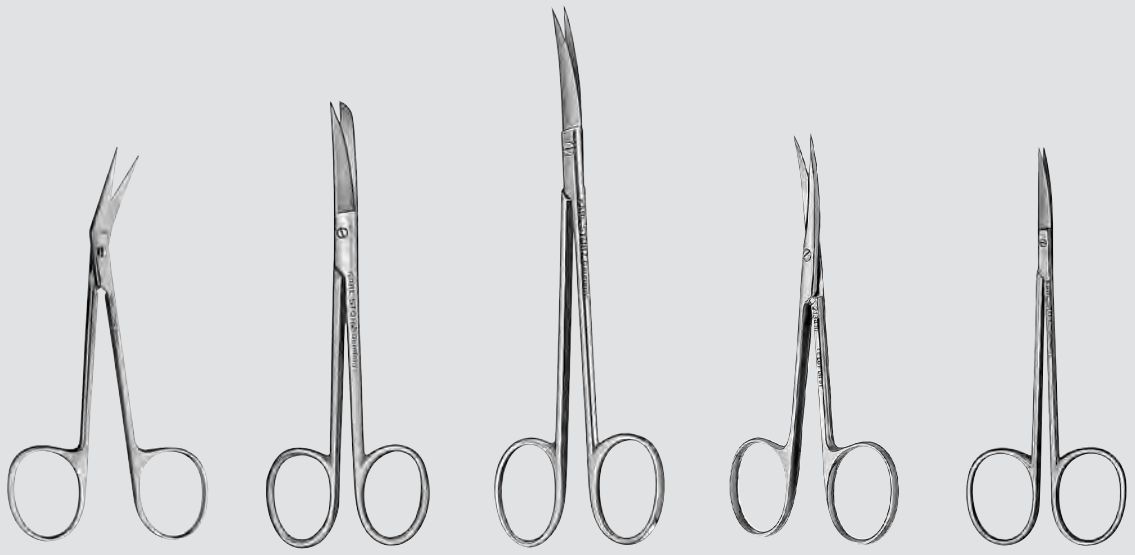
211804 212000 212002 212803 212807 213004 213005 213008



213011 213015

211804	FISCH **Dual Purpose Scalpel Handle,** elevator on one side, scalpel handle no. 7 on the other side, length 16 cm
212000	WULLSTEIN **Raspatory,** length 18 cm
212002	DIETER **Raspatory,** width 2.2 mm, length 18 cm
212803	LEMPERT **Raspatory,** width 3 mm, length 19 cm
212807	LEMPERT **Raspatory,** curved, width 7 mm, length 18 cm
213004	FISCH **Raspatory,** slightly curved, width 4 mm, length 18 cm
213005	FISCH **Dura Elevator,** width 5 mm, length 16 cm
213008	PLESTER **Raspatory,** width 8 mm, length 18 cm
213011	FISCH **Raspatory,** width 10 mm, length 16 cm
213015	FISCH **Periosteal Raspatory,** angled, width 11 mm, length 21 cm

3-995



213111 213200 213314 213410 213411

213111 **Scissors,** angled, very delicate, sharp/sharp, length 11 cm

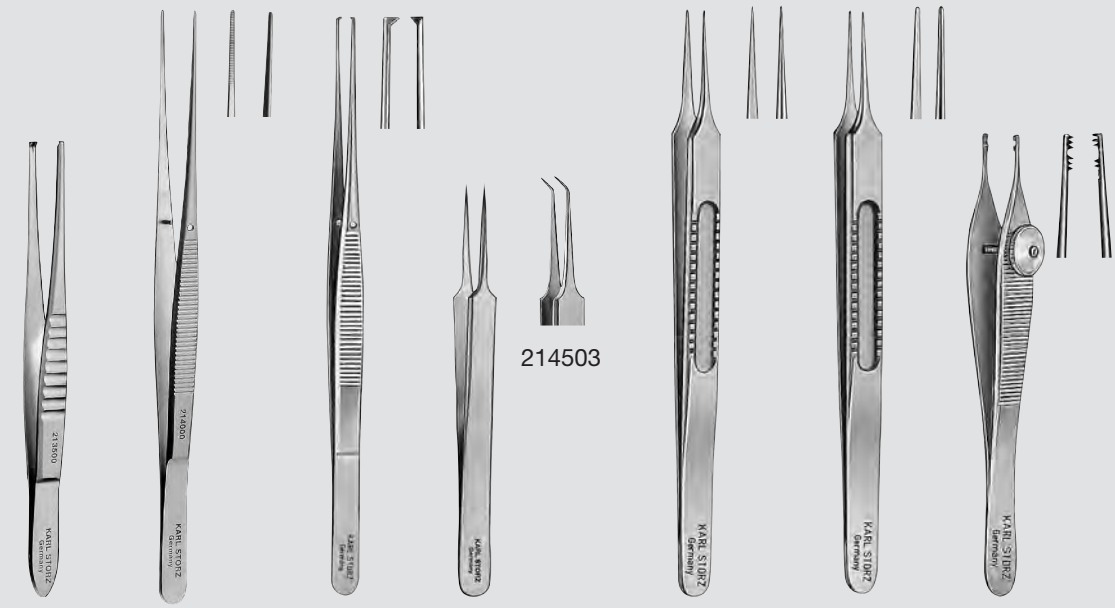
213200 **Scissors,** curved, sharp/blunt, length 12 cm

213314 WULLSTEIN **Scissors,** curved, sharp/sharp, length 14 cm

213410 FISCH **Scissors,** extra delicate, curved, sharp/sharp, length 10.5 cm

213411 FISCH **Scissors,** fine, curved, sharp/sharp, length 10.5 cm

3-99$_3$



213500 214000 214000 F 214200 214500 214500 F 214510 214515 214600

213500	**Tissue Forceps,** 1 x 2 teeth, length 11.5 cm
214000	WULLSTEIN **Forceps,** serrated, length 15 cm
214000 F	**Same,** soft spring-action
214200	WULLSTEIN **Forceps,** 1 x 2 teeth, length 15 cm
214500	**Jeweler Forceps,** fine, pointed, length 11 cm
214500 F	**Same,** soft spring-action
214503	**Suture Forceps,** angled, length 11 cm
214510	**Suture Forceps,** smooth, width of jaws 0.5 mm, length 16 cm
214515	**Same,** width of jaws 0.8 mm
214600	DERLACKI **Clamp, Ossicle Holding,** length 12 cm

12-904

KARL STORZ — ENDOSKOPE

Special Features:

- **Movable blades provide optimal retraction of the operative field, even under difficult anatomical conditions**
- **Exchangeable blades (2-prong/3-prong/full blade) enable individual adjustment of the retractor in all OP setups**
- **5 different blades available**
- **One retractor replaces many different models**
- **Low blade replacement costs**



219550



219552



219553



219555



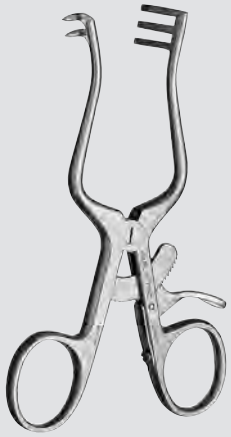
219562



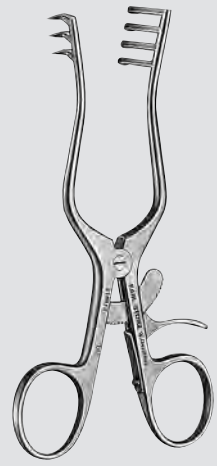
219563

219550	OTT **Retractor,** length 13 cm, for use with adjustable, detachable valves 219552 – 219563
219552	**Valve,** 2 prongs, 45°, blunt, for use with Retractor 219550
219553	**Same,** 3 prongs
219555	**Valve,** full blade, for use with Retractor 219550
219562	**Valve,** 2 prongs, 90°, blunt, for use with Retractor 219550
219563	**Same,** 3 prongs

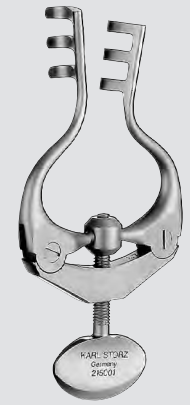
8-11



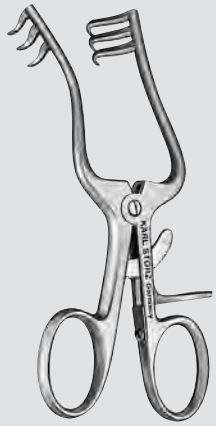
214811



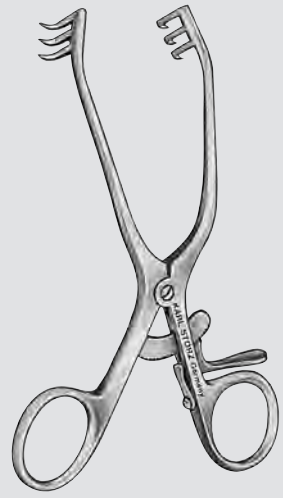
214813 –
214820



215001



219511
219513



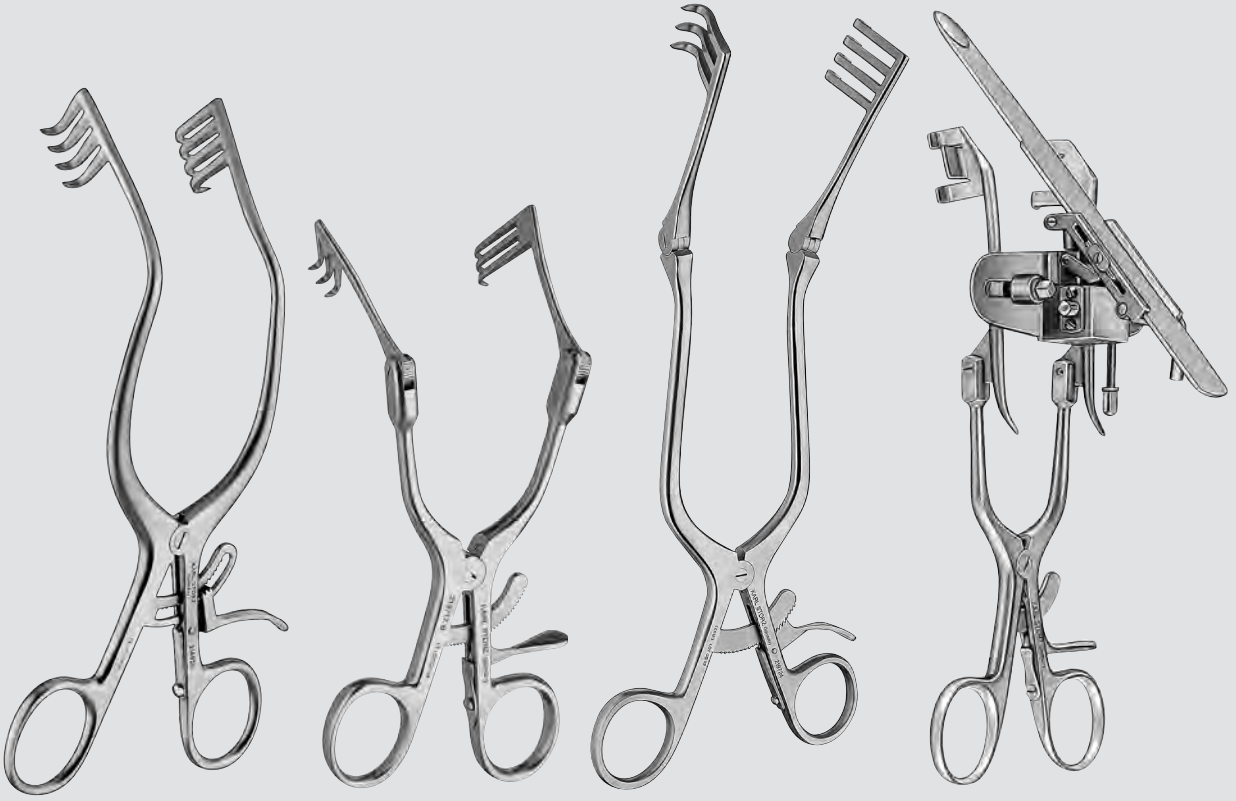
219613



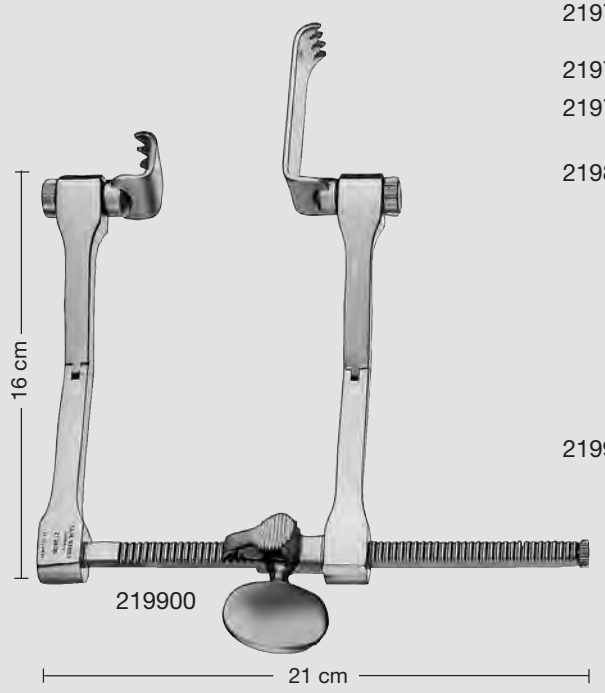
219714 K

214811	WEITLANER **Retractor,** 2 x 3 prongs, blunt, length 11 cm
214813	WEITLANER **Retractor,** 3 x 4 prongs, sharp, length 13 cm
214816	**Same,** length 16 cm
214820	**Same,** length 20 cm
215001	JANSEN **Retractor,** 3 x 3 prongs, blunt, length 10 cm
219511	WULLSTEIN **Retractor,** 3 x 3 prongs, length 11 cm
219513	**Same,** length 13 cm
219613	BELLUCCI **Retractor,** 3 x 3 prongs, length 13 cm
219714 K	DALCHOW **Retractor,** small model for children, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm

12-90₄



214920 | 219717 219717 B | 219724 | 219800



214920	ANDERSON-ADSON **Retractor,** 4 x 4 prongs, sharp, curved, length 20 cm
219717	FISCH **Retractor,** articulated, 3 x 3 prongs, semisharp, length 17 cm
219717 B	**Same,** sharp
219724	**Retractor,** articulated, 3 x 4 prongs, sharp, length 24 cm
219800	FISCH **Dura Retractor,** length 18 cm
	including:
	Spatula, straight, length 12 cm
	Spatula, straight, length 15 cm
	Spatula, curved, length 15 cm
	Spatula Attachment, for adjustment of spatulas
	Wrench, for spatula attachment
219900	FISCH **Glomus Retractor** (infratemporal fossa retractor), size 21 x 16 cm
	including:
	Retractor Blade, short
	Retractor Blade, long
	Retractor Blade, long and slim, with drill hole
	Retractor Frame, without blades

12-90$_3$

Components/Spare Parts see chapter 16



220211 – 220213 N



220411



220511



220421
220421 K



220521
220521 K



220700

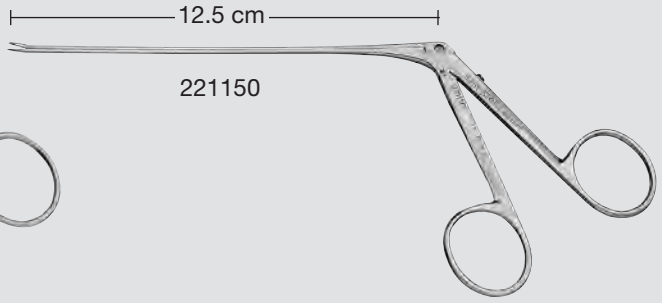


220703

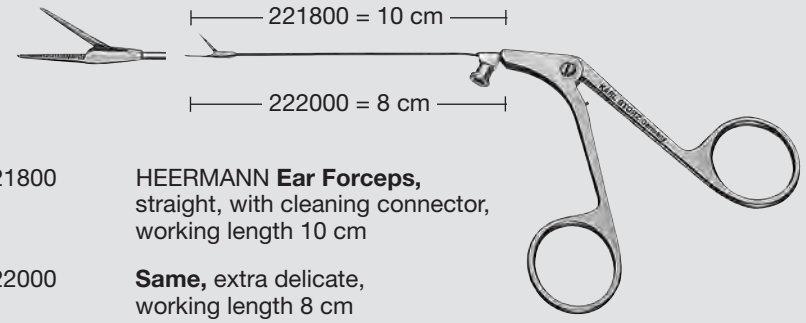
	220211	PLESTER **Retractor,** 2 x 2 prongs, length 11 cm
NEW	220211 K	DALCHOW **Retractor,** small model for children, 2 x 2 prongs, length 11 cm
	220213	FISCH **Retractor,** 2 x 2 prongs, length 13 cm
NEW	220213 N	**Same,** with antireflexion coating
	220411	PLESTER **Retractor,** 2 prongs on right, left full blade, length 11 cm
	220421	PLESTER-HELMS **Retractor,** 2 prongs on right, full blade on left, with atraumatic teeth, length 11 cm
NEW	220421 K	DALCHOW **Retractor,** small model for children, 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
	220511	PLESTER **Retractor,** 2 prongs on left, full blade on right, length 11 cm
	220521	PLESTER-HELMS **Retractor,** 2 prongs on left, full blade on right, with atraumatic teeth, length 11 cm
NEW	220521 K	DALCHOW **Retractor,** small model for children, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
	220700	WILLIGER **Retractor,** 4 prongs, sharp, length 13 cm
	220703	WILLIGER **Retractor,** 3 prongs, sharp, length 13 cm

12-90₄



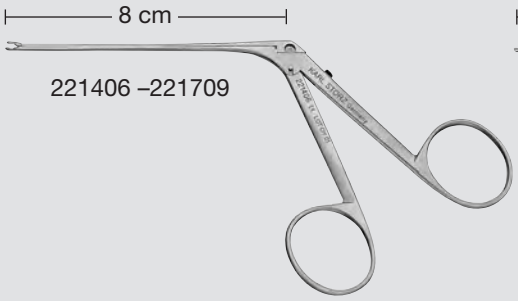


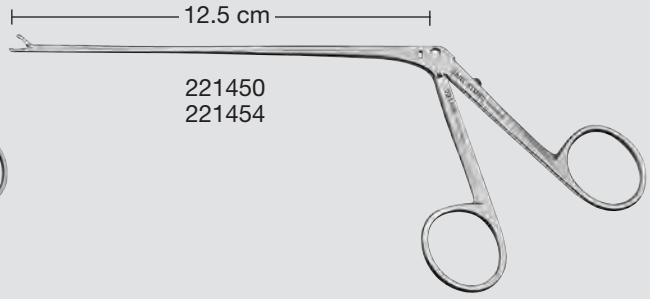
	221100	HARTMANN **Ear Forceps,** extra delicate, serrated, 1 x 4.5 mm, working length 8 cm
	221150	**Same,** working length 12.5 cm
	221105	FISCH-HARTMANN **Ear Forceps,** delicate, serrated, 1.2 x 8 mm, working length 8 cm
	221107	**Same,** 1.2 x 12 mm
	221110	FISCH-HARTMANN **Ear Forceps,** extra delicate, smooth, 1 x 4.5 mm, working length 8 cm
	221111	FISCH **Ear Forceps,** extra delicate, smooth, 0.4 x 3.5 mm, working length 8 cm
	221111 FN	FISCH **Ear Forceps,** very fine, smooth, with antireflection coating, 0.4 x 3.5 mm, working length 8 cm
	221112	**Ear Forceps,** straight, with spring, smooth, 4 mm, working length 8 cm
	221200	FISCH **Ear Forceps,** extra delicate, pointed, serrated, 1 x 4.5 mm, working length 8 cm
	221201	FISCH **Ear Forceps,** extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
	221304	**Ear Forceps,** extra delicate, serrated, curved to right, working length 8 cm
	221305	**Same,** curved to left
	221307	**Same,** curved upwards



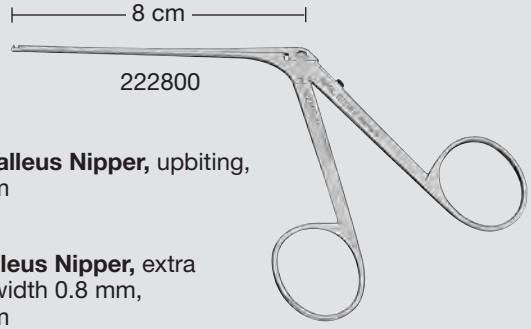
	221800	HEERMANN **Ear Forceps,** straight, with cleaning connector, working length 10 cm
	222000	**Same,** extra delicate, working length 8 cm

3-99$_2$





	221406	WULLSTEIN **Ear Forceps,** extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm
	221406 F	FISCH **Ear Forceps,** extra delicate, oval cupped jaws, 0.6 mm, with thin sheath, working length 8 cm
	221406 FN	**Same,** with antireflection coating
	221409	WULLSTEIN **Ear Forceps,** extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm
	221450	WULLSTEIN **Ear Forceps,** very fine, round cupped jaws, diameter 1 mm, working length 12.5 cm
	221454	FISCH **Ear Forceps,** round cupped jaws, diameter 3 mm, working length 12.5 cm
	221509	WULLSTEIN **Ear Forceps,** extra delicate, oval cupped jaws, curved to right, oval, 0.9 mm, working length 8 cm
	221609	**Same,** curved to left
	221709	**Same,** curved upwards

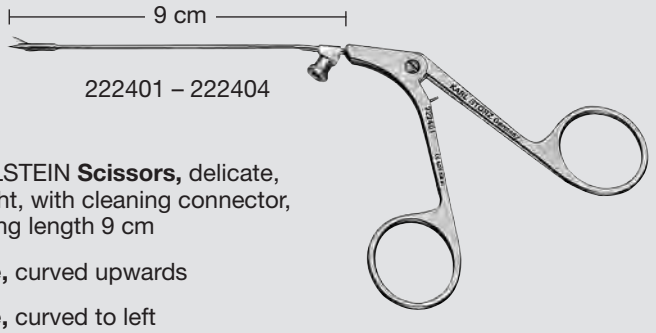


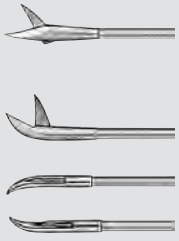
	222800	HOUSE-DIETER **Malleus Nipper,** upbiting, working length 8 cm
	222900	**Same,** downbiting
	222801	FISCH-DIETER **Malleus Nipper,** extra delicate, upbiting, width 0.8 mm, working length 8 cm



	223000	**Instrument Guard,** teflon, **autoclavable,** for micro forceps and micro scissors with working length 8 cm, length 11.5 cm

3-99$_2$



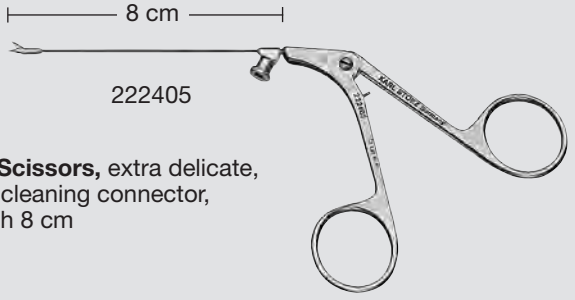


222401 WULLSTEIN **Scissors,** delicate, straight, with cleaning connector, working length 9 cm

222402 **Same,** curved upwards

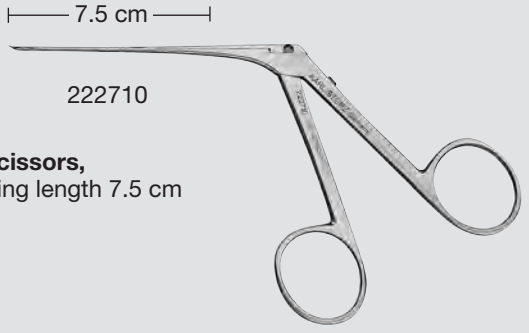
222403 **Same,** curved to left

222404 **Same,** curved to right





222405 WULLSTEIN **Scissors,** extra delicate, straight, with cleaning connector, working length 8 cm



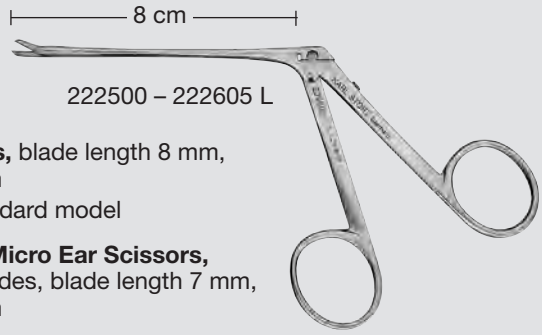


222710 FISCH **Crurotomy Scissors,** curved to right, working length 7.5 cm



222720 **Same,** curved to left

3-99$_2$





222500 BELLUCCI **Scissors,** blade length 8 mm, working length 8 cm



222600 **Same,** delicate standard model



222601 FISCH-BELLUCCI **Micro Ear Scissors,** beaked scissors blades, blade length 7 mm, working length 8 cm



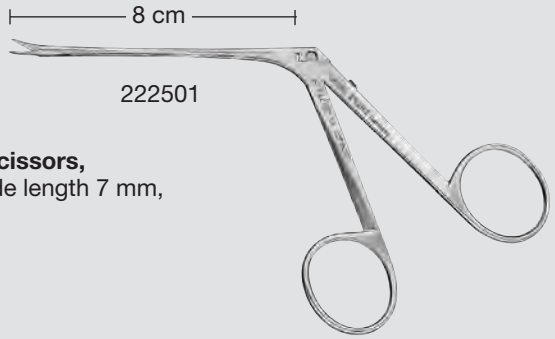
222602 HOUSE-BELLUCCI **Scissors,** extra delicate, working length 8 cm



222604 R BELLUCCI **Scissors,** delicate, curved to right, working length 8 cm

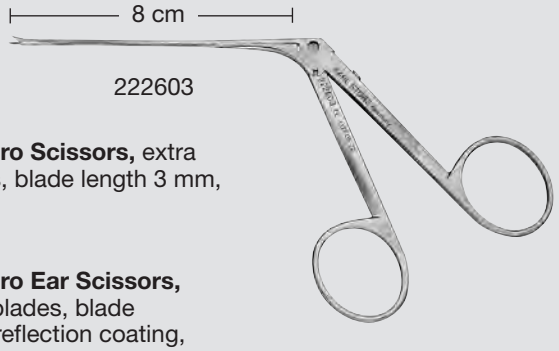


222605 L **Same,** curved to left





222501 FISCH-BELLUCCI **Scissors,** extra fine blade, blade length 7 mm, working length 8 cm

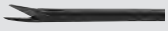




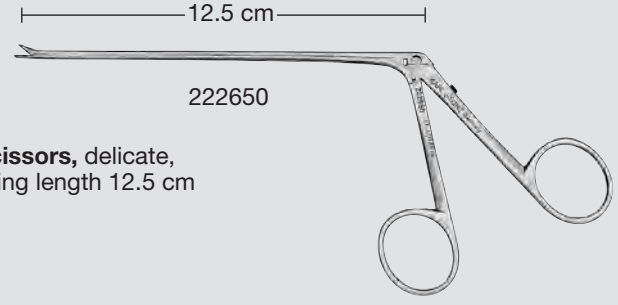
222603 FISCH-BELLUCCI **Micro Scissors,** extra delicate scissor blades, blade length 3 mm, working length 8 cm



222606 **Same,** with thin shaft



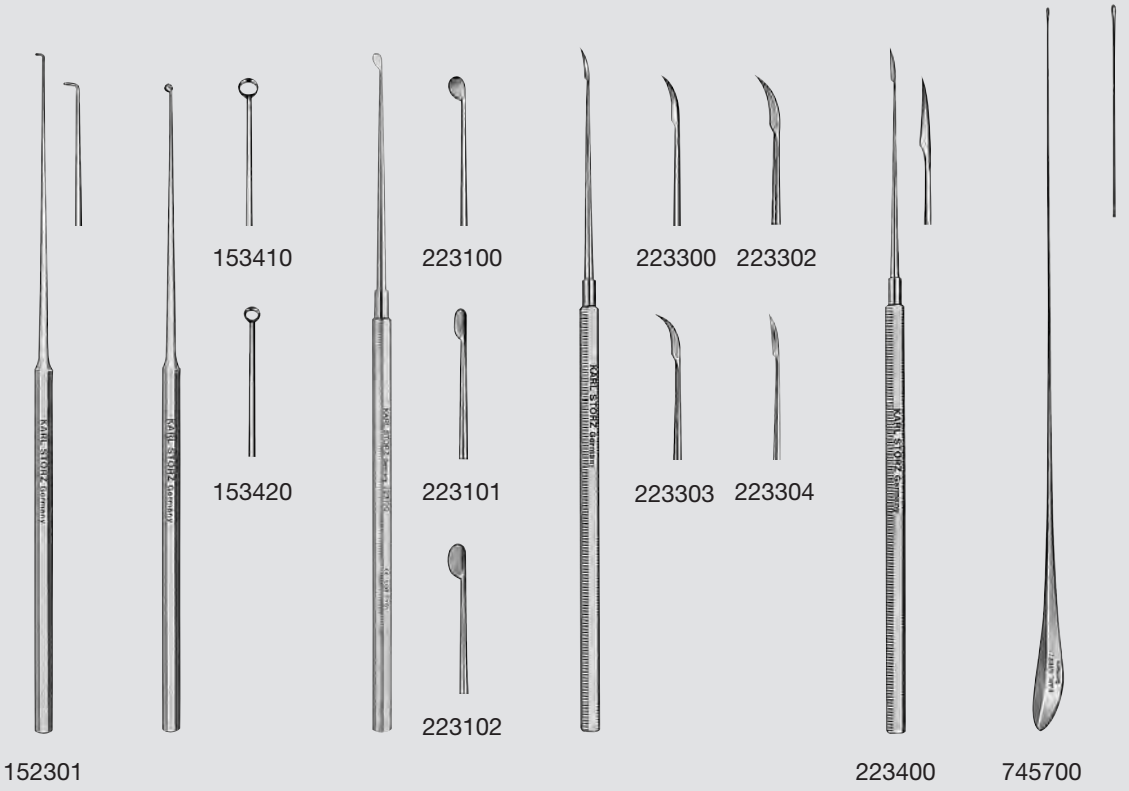
222606 N FISCH-BELLUCCI **Micro Ear Scissors,** extra delicate scissor blades, blade length 2 mm, with antireflection coating, with thin shaft, working length 8 cm





222650 BELLUCCI **Scissors,** delicate, straight, working length 12.5 cm

3-99



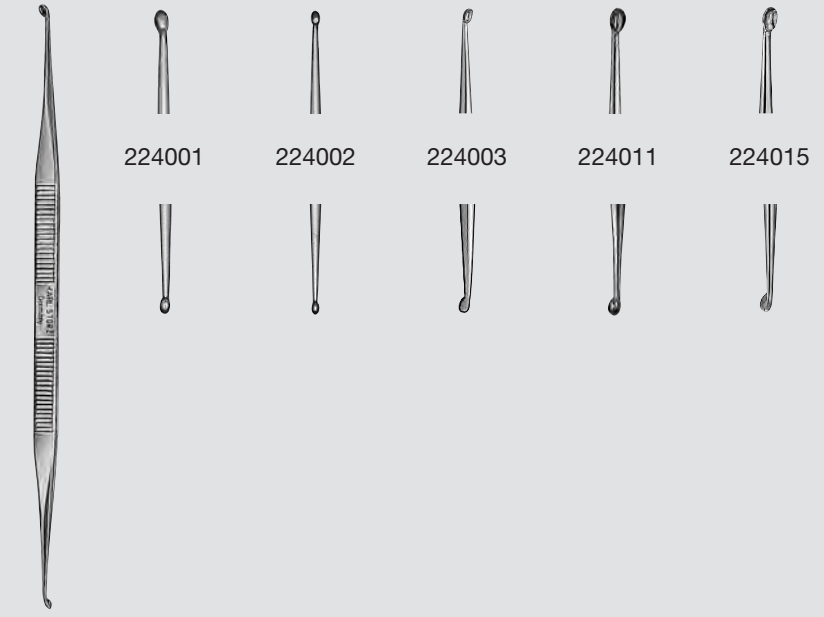
152301	**Ear Hook,** without ball end, size 1, length 15.5 cm
153410	BUCK **Ear Curette,** sharp, size 0, length 14.5 cm
153420	**Same,** size 00
223100	PLESTER **Knife,** round, vertical, standard size 3.5 x 2.5 mm, length 16 cm
223101	**Same,** medium 4 x 2 mm
223102	**Same,** large 4.5 x 2.5 mm
223300	PLESTER **Sickle Knife,** double-edged, standard model, slightly curved, length 16 cm
223302	**Same,** medium curved
223303	**Same,** strongly curved
223304	**Same,** extra delicate, slightly curved
223400	KLEY **Knife,** footplate, length 16 cm
745700	SEIFFERT **Probe, for salivary duct,** silver, extra delicate, diameter 0.5 mm, length 18 cm

3-994



223500	ROSEN **Elevator,** tip angled 15°, 12 mm long, width 1.5 mm, length 16 cm
223501	BEALES **Elevator,** curved, width 1.5 mm, length 16 cm
223502	HUGHES **Elevator,** curved, width 1.1 mm, length 16 cm
223510	HOUSE **Elevator,** tip angled 15°, 12 mm long, width 1 mm, length 16 cm
223530	BEHRBOHM **Dissector,** for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm
223535	BEHRBOHM **Dissector,** for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, slightly curved spatula, straight, with round handle, size 3 mm, length 17 cm
223540	BEHRBOHM **Dissector,** for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, round spatula, tip angled 45°, with round handle, size 3 mm, length 17 cm
223600	**Tympanic Mirror,** REGENSBURG model, stainless steel, diameter 3 mm, length 16 cm
223602	**Micro Mirror,** metal, stainless steel, diameter 5 mm, length 16 cm
223803	**Seeker,** with ball end, angled 45°, size 3, length 15.5 cm
223891	**Seeker,** extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm

3-99$_3$



224001 –
224002

224005

224001	HOUSE **Curette,** large, spoon sizes 2 x 3.2 mm and 1.6 x 2.6 mm, length 15 cm
224002	**Same,** small, spoon sizes 1 x 1.6 mm and 1.3 x 2 mm
224003	HOUSE **Curette,** medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm
224005	HOUSE **Curette,** angular, extra small, spoon sizes 0.6 x 0.8 mm and 0.8 x 1 mm, length 17 cm
224011	HOUSE **Curette,** straight, extra large, spoon sizes 2.3 x 3.5 mm and 2.7 x 4.3 mm, length 15 cm
224015	HOUSE-BABIGHIAN **Curette,** toothed, extra large, spoon sizes 2.4 x 3.4 mm and 2.6 x 4 mm, length 16 cm

3-99$_2$





224301 224302 224303 224304 224400 224600 224802 224806 224812 224813 225008

224301 WULLSTEIN **Needle,** strong long curve, length 16.5 cm
224302 **Same,** medium curve
224303 **Same,** slight curve
224304 **Same,** straight

224400 PLESTER **Guiding Fork,** length 15.5 cm

224600 PLESTER **Hook,** retrospective, 2 mm, length 15.5 cm, to abrade the underside of the tympanic membrane

224802 **Footplate Hook,** 0.2 mm, length 16 cm
224806 PLESTER **Footplate Hook,** 0.6 mm, length 16 cm
224812 FISCH **Footplate Hook,** tip angled upwards 90°, 0.2 mm, length 16 cm
224813 **Same,** tip angled downwards

225008 HEERMANN **Hook,** reinforced, retrospective, 0.8 mm, length 16 cm





225204 – 225250

Pick, 90°, length 16 cm
225204 0.4 mm
225205 0.5 mm
225206 0.6 mm
225208 0.8 mm
225210 1.0 mm
225212 1.2 mm
225215 1.5 mm
225220 2.0 mm
225225 2.5 mm
225230 3.0 mm
225240 4.0 mm
225250 5.0 mm



225405 – 225425

Pick, 45°, length 16 cm
225405 0.5 mm
225406 0.6 mm
225408 0.8 mm
225410 1.0 mm
225415 1.5 mm
225420 2.0 mm
225425 2.5 mm

3-99$_2$



226001



226001



226002



226101



226102



226105



226106



226111



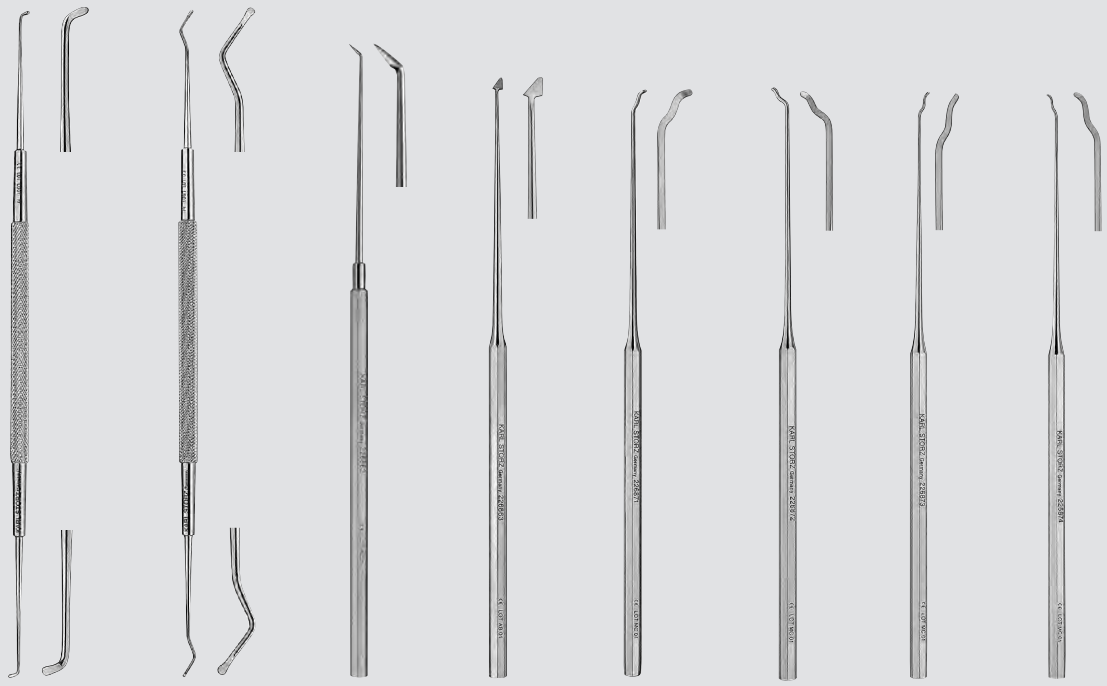
226112



226301

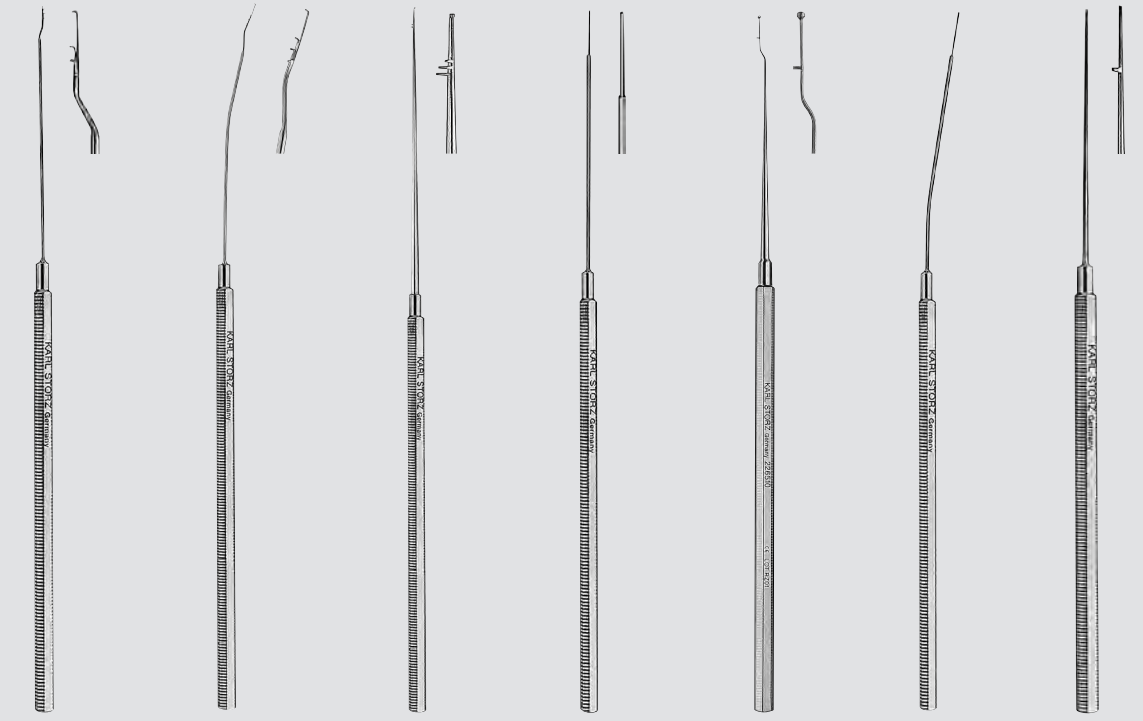
226001	FISCH **Micro Raspatory,** double curved to right, length 16 cm
226002	**Same,** left
226101	FISCH **Micro Raspatory,** single curved to right, length 16 cm
226102	**Same,** left
226105	DALCHOW **Micro Raspatory,** single curved to right, width 1.5 mm, length 16 cm
226106	**Same,** left
226111	CRABTREE **Dissector Pick,** length 16 cm, 90°, flat, width 0.5 mm, length 1.5 mm
226112	**Same,** length 2.5 mm
226301	FISCH **Tenotome,** sickle-shaped, extra delicate, length 16 cm

8-11



226211 226212 226862 226863 226871 226872 226873 226874

	226211	THOMASSIN **Dissector,** double-ended, distal tips with single curve to right or to left, length 18 cm
	226212	THOMASSIN **Dissector,** double-ended, distal tips with double curve to right or to left, length 18 cm
	226862	HOUSE **Lancet Knife,** triangular, rounded tip angled upwards 45°, size 2 x 3 mm, length 16 cm
NEW	226863	ROSEN **Lancet Knife**, triangular, rounded tip angled upwards 45°, size 3 x 3 mm, length 15.5 cm
NEW	226871	WHIRLY-BIRD **Knife,** sharp, strong right curved, size 1 x 5 mm, length 15 cm
NEW	226872	**Same,** strong left curved
NEW	226873	WHIRLY-BIRD **Knife,** sharp, slight right curved, size 0.75 x 5 mm, length 15 cm
NEW	226874	**Same,** slight left curved



226500 226501 226502 226504 – 226506 226510 226514 226516 226540 – 226550

226500	FISCH **Measuring Rod,** marker pins at 3, 4 and 5 mm, length 16 cm
226501	FISCH **Measuring Rod,** curved, marker pins at 3, 4 and 5 mm, length 16 cm
226502	**Measuring Rod,** for stapes prosthesis, straight, marker pins at 3.5, 4 and 4.5 mm, length 17 cm
226504	FISCH **Caliper,** diameter 0.4 mm, marker pin at 10 mm, length 16 cm
226506	**Same,** diameter 0.6 mm
226510	PLESTER **Depth Gauge,** with ball tip, marker pin at 5 mm, length 16 cm
226514	FISCH **Caliper,** angled shaft, diameter 0.4 mm, marker pin at 10 mm, length 16 cm
226516	**Same,** diameter 0.6 mm
226540	HOUSE **Caliper Strut,** for 4 mm distance, marker pin at 4 mm, length 16 cm
226545	**Same,** for 4.5 mm distance, marker pin at 4.5 mm
226550	**Same,** for 5 mm distance, marker pin at 5 mm



225150

225150	**Protection Tube,** metal, for straight ear micro instruments with octogonal handle, length 6 cm

3-99$_3$



226600 –
226608



226710 –
226730



226753 –
226761



226810 –
226835



226910 –
226925

226600	FISCH **Manual Perforator,** diameter 0.3 mm, length 16 cm
226604	**Same,** diameter 0.4 mm
226605	**Same,** diameter 0.5 mm
226606	**Same,** diameter 0.6 mm
226607	**Perforator,** diameter 0.7 mm, length 16 cm
226608	**Same,** diameter 0.8 mm
226710	**Round Knife 0°,** straight, diameter 1 mm, length 16 cm
226715	**Same,** diameter 1.5 mm
226720	**Same,** diameter 2 mm
226723	**Same,** diameter 2.3 mm
226725	**Same,** diameter 2.5 mm
226730	**Same,** diameter 3 mm
226753	**Round Knife 25°,** diameter 1 mm, length 16 cm
226755	**Same,** diameter 1.5 mm
226757	**Same,** diameter 2 mm
226759	**Same,** diameter 2.5 mm
226761	**Same,** diameter 3 mm
226810	**Round Knife 45°,** diameter 1 mm, length 16 cm
226815	**Same,** diameter 1.5 mm
226820	**Same,** diameter 2 mm
226823	**Same,** diameter 2.3 mm
226825	**Same,** diameter 2.5 mm
226830	**Same,** diameter 3 mm
226835	**Same,** diameter 3.5 mm
226910	**Round Knife 90°,** diameter 1 mm, length 16 cm
226915	**Same,** diameter 1.5 mm
226920	**Same,** diameter 2 mm
226923	**Same,** diameter 2.3 mm
226925	**Same,** diameter 2.5 mm

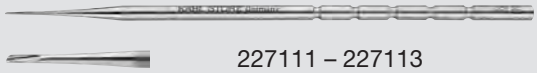
3-99$_2$



227100



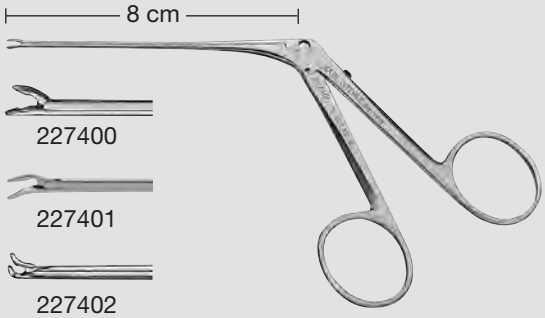
227011 – 227014



227111 – 227113



227015



227400

227401

227402

227403

227100	HEERMANN **Mallet,** for 227011 – 227014 and 227111 – 227113, length 22 cm
227015	HEERMANN **Handle,** for use with instruments 227011 – 227014 and 227111 – 227113
227011	**Micro Gouge,** width 0.6 mm, for use with Handle 227015
227012	**Same,** width 1.5 mm
227013	**Same,** width 3 mm
227014	**Same,** width 3.5 mm
227111	SCHIMANSKI **Micro-Gouge,** width 0.6 mm, for use with Handle 227015
227112	**Same,** width 1.5 mm
227113	**Same,** width 3 mm
227400	McGEE **Wire Crimper,** straight, working length 8 cm
227401	FISCH-McGEE **Wire Crimper,** straight, working length 8 cm
227402	**Same,** curved to right
227403	**Same,** curved to left

3-99$_3$



227600



227800



227900



227920

227600	GUILFORD-WRIGHT **Wire Cutter,** serrated, length 10 cm
227800	SCHUKNECHT **Wire Bending Die**
227900	SHEA **Vein Press,** diameter 16 mm, length 13 cm
227920	**Vein Press,** LÜBECK model, diameter 38 mm

3-99



231000



231008



231009



231010



231011

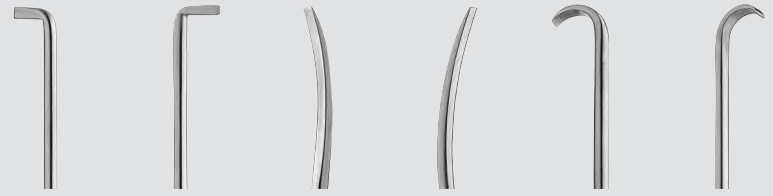
231000	**Hone,** “ARKANSAS” oil stone, wedge-shaped, 10 x 4 cm
231008	**Preparation Plate,** glass, 10 x 8 cm
231009	FISCH **Glass Cutting Board,** with square millimeter gradations (25 x 20 mm), 10 x 8 cm
231010	**Cutting Block,** plastic, white, 8 x 4 x 1 cm
231011	**Cutting Block,** Teflon, with grip plate, 20 x 15 x 1 cm

3-99$_2$

MAGNAN **Ear Micro Instruments** NEW



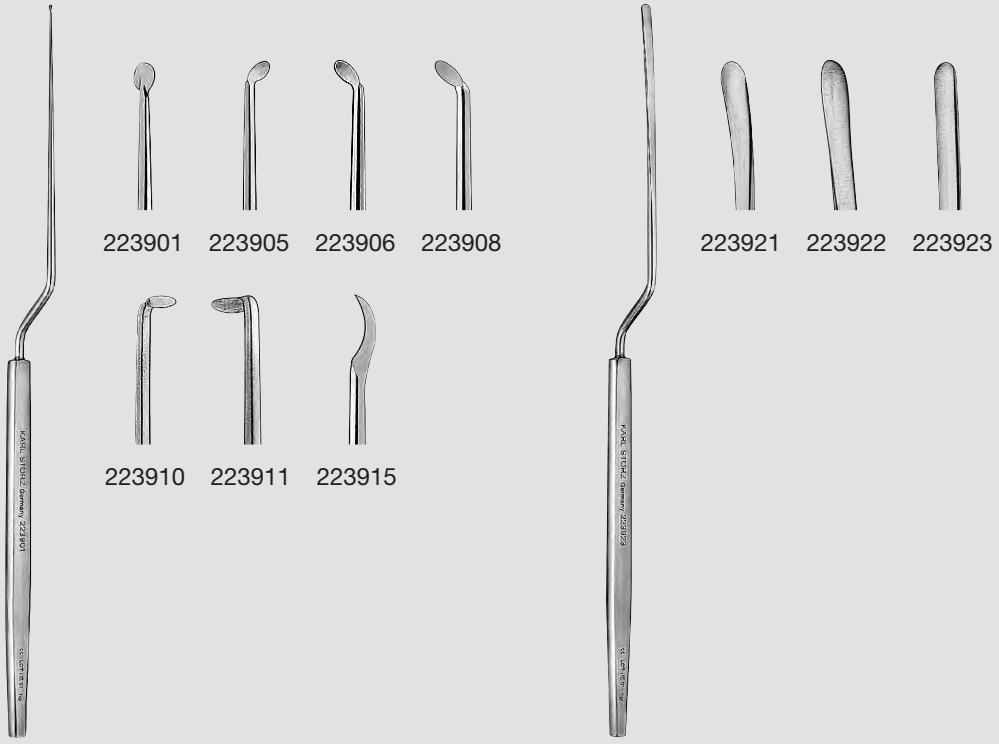
223994



223980 223990 223982 223992 223984 223994

223980	MAGNAN **Raspatory,** bayonet-shaped, angled downwards 90°, width 1.2 mm, length 20 cm
223990	**Same,** angled upwards 90°
223982	MAGNAN **Raspatory,** bayonet-shaped, S-shaped tip angled downwards, width 2 mm, length 20 cm
223992	**Same,** S-shaped tip angled upwards
223984	MAGNAN **Raspatory,** bayonet-shaped, round tip angled downwards, width 2 mm, length 20 cm
223994	**Same,** round tip curved upwards

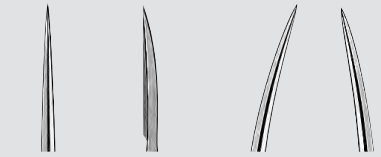
8-11



223901	**Round Knife 0°,** bayonet-shaped, straight, diameter 1.5 mm, length 18 cm
223905	**Round Knife 45°,** bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
223906	**Same,** curved downwards
223908	**Round Knife 45°,** bayonet-shaped, curved downwards, diameter 2.3 mm, length 18 cm
223910	**Round Knife 90°,** bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
223911	**Same,** curved downwards
223915	**Tenotome,** bayonet-shaped, sickle knife curved downwards, extra fine, length 18 cm
223921	**Elevator,** bayonet-shaped, curved downwards, sharp, width 4 mm, length 18 cm
223922	**Same,** width 2 mm
223923	**Elevator,** bayonet-shaped, slightly curved downwards, blunt, width 3 mm, length 18 cm

3-07

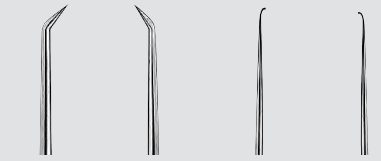




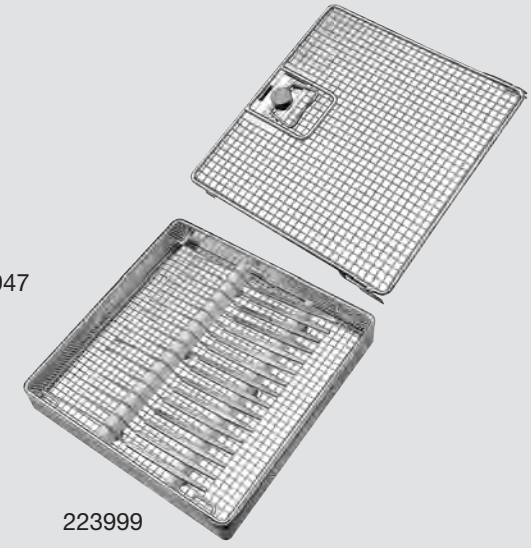
223930 223931 223932 223933



223940 223941 223942 223943 223946 223947



223956 223957 223962 223963

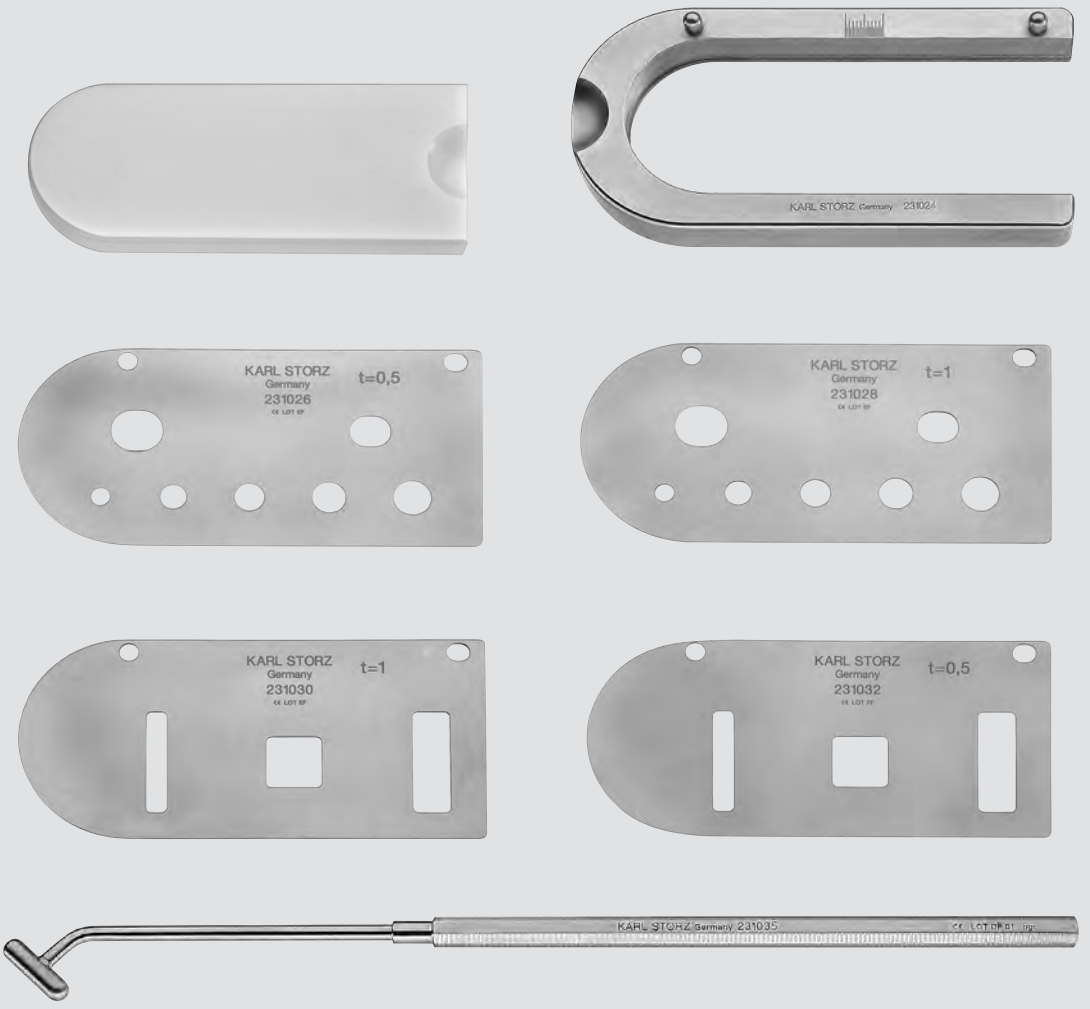


223999

223930	**Needle,** bayonet-shaped, straight, length 18 cm
223931	**Knife,** footplate, bayonet-shaped, length 18 cm
223932	**Needle,** bayonet-shaped, curved upwards, strong long curve, length 18 cm
223933	**Same,** curved downwards
223940	**Pick 90°,** bayonet-shaped, curved upwards, 0.5 mm, length 18.5 cm
223941	**Same,** curved downwards
223942	**Pick,** 90°, bayonet-shaped, curved upwards, 1 mm, length 18 cm
223943	**Same,** curved downwards
223946	**Pick,** 90°, bayonet-shaped, curved upwards, 2 mm, length 18 cm
223947	**Same,** curved downwards
223956	**Pick,** 45°, bayonet-shaped, curved upwards, 2 mm, length 18 cm
223957	**Same,** curved downwards
223962	**Hook,** footplate, bayonet-shaped, curved upwards, 0,2 mm, length 18 cm
223963	**Same,** curved downwards
223999	**Metal Tray,** for sterilizing and storage of ear instruments, perforated, bottom part with holder for 16 bayonet-shaped ear micro-instruments, lid with silicone bridges, external dimensions (w x h x d): 250 x 240 x 40 mm

Please note: The instruments displayed are not included in the metal tray.

3-07



231020 MILEWSKI **Cartilage Cutting Block,** with 4 exchangeable templates including:

Cutting Block, plastic, white, **autoclavable,** size 120 x 45 x 15 mm

Frame, metal, U-shaped, with 2 pins to hold the templates

Template for Ear Cartilage, with 5 round holes 5, 7, 8, 9 and 10 mm diameter and 2 oval holes 9 x 11 mm and 12 x 14 mm, thickness 0.5 mm

Same, thickness 1 mm

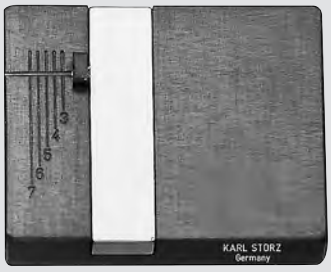
Template for Nasal Cartilage, with 3 rectangular holes 5.5 x 30 mm, 15 x 15 mm and 10 x 30 mm, thickness 1 mm

Same, thickness 0.5 mm

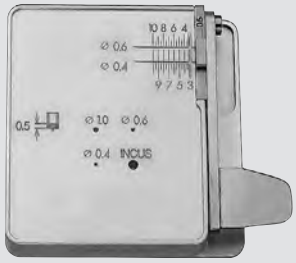
Stamp, cylindrical, with handle, to press the cartilage on the cutting block

3-07

Components/Spare Parts see chapter 16



227504
227506



227525



227526



227528



227527



227530



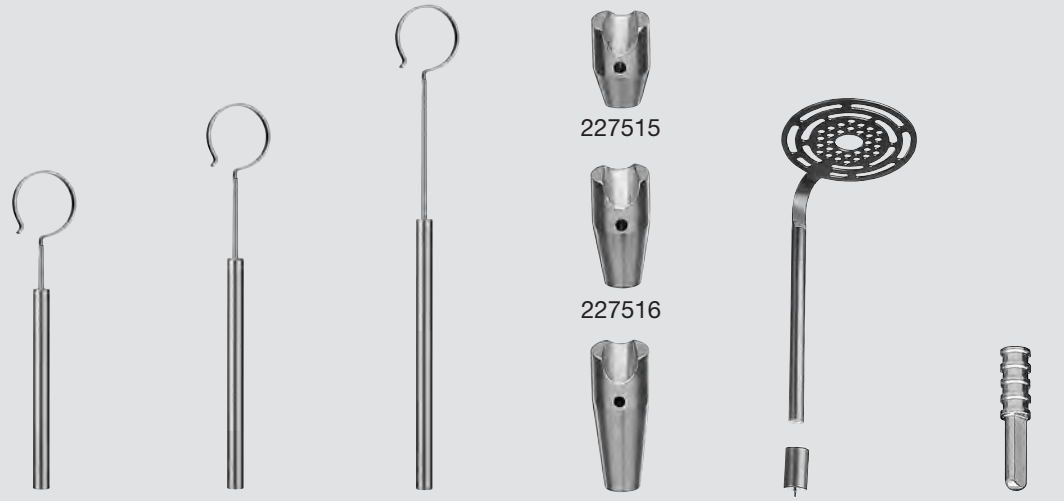
227532



227534

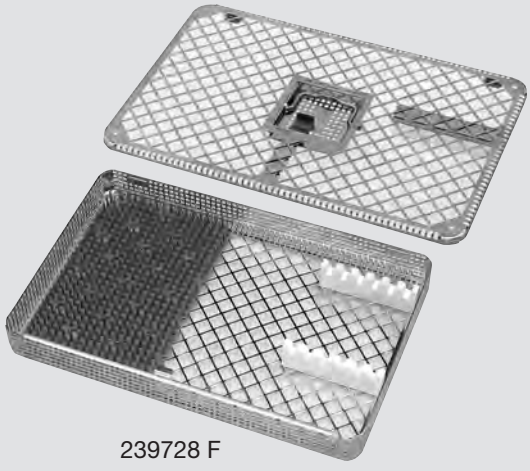
227504	FISCH **Cutting Block,** for cutting and preparing stapes prostheses of diameter 0.4 mm
227506	**Same,** for prostheses of diameter 0.6 mm
227525	FISCH **Cutting Block**
227526	**Holding Forceps,** for holding FISCH stapes and total prostheses, length 13.5 cm
227527	**Crimp Forceps,** for FISCH total prostheses, length 10.5 cm
227528	**Scissors,** for FISCH total prostheses, length 11 cm
227530	**Incus Holding Clamp,** length 11 cm
227532	FISCH **Micro Hook,** 2.5 mm, 45°, length 16 cm, for insertion and placement of FISCH incus prosthesis
227534	**Diamond Straight Shaft Burr,** diameter 1.4 mm, length 7 cm

11-03



227510 227511 227512 227517 227520 227522

227510	FISCH **Titanium Stapes Piston,** short size, sterile, short distance between loop and cylinder, 7 mm x diameter 0.4 mm
227511	FISCH **Titanium Stapes Piston,** normal size, sterile, medium distance between loop and cylinder, 8.5 mm x diameter 0.4 mm
227512	FISCH **Titanium Stapes Piston,** long size, sterile, long distance between loop and cylinder, 10 mm x diameter 0.4 mm
227515	FISCH **Titanium Incus Prosthesis,** normal size, sterile, 3 mm x diameter 2 / 1.3 mm
227516	FISCH **Titanium Incus Prosthesis,** long size, sterile, 4 mm x diameter 2 / 1.3 mm
227517	FISCH **Titanium Incus Prosthesis,** extra long size, sterile, 5 mm x diameter 2 / 1.3 mm
227520	FISCH **Titanium Total Prosthesis with foot,** sterile, 10 mm x diameter 0.6 mm
227522	FISCH **Titanium Neomalleus Prosthesis,** sterile, 5 mm x diameter 1.1 mm



239728 F

239728 F **Metal Tray,** for sterilization and storage of instruments, perforated, base with holder and silicone mat, lid with silicone bridges and handle, external dimensions (w x d x h) 275 x 178 x 36 mm

including:

Base with Lid, with holders and silicone bridges

Silicone Mat

Components/Spare Parts see chapter 16

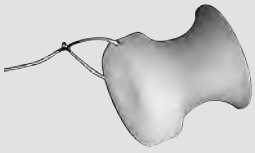
8-11

Advantages of the TÜBINGEN Ventilation Tube:

- **No defense mechanism**
- **Surface prevents infection**
- **Larger lumen provides better drainage**
- **Highly polished gold-plated surface prevents crusting or movement of the lumen**



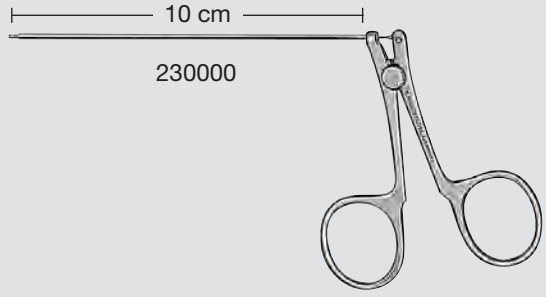
230100 –
230110



230506



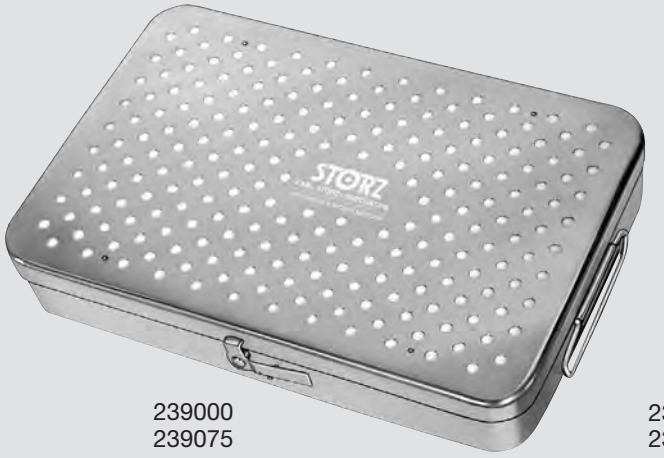
228200



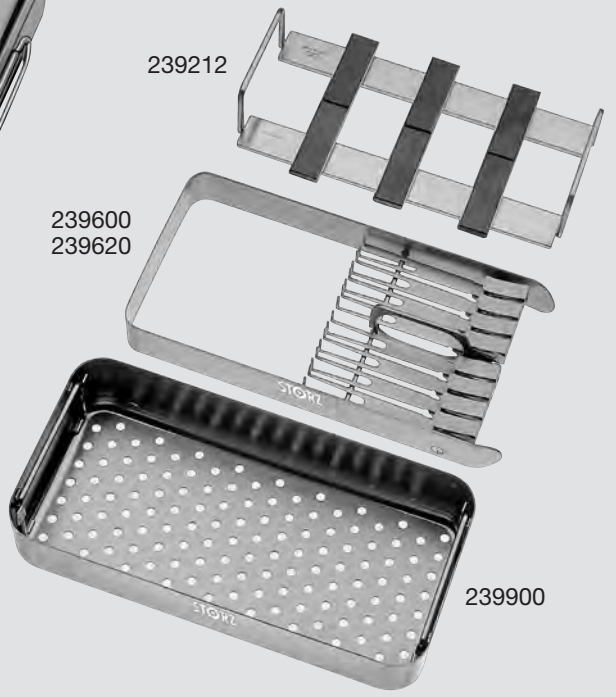
230000

230100	**TÜBINGEN Ventilation Tube,** made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.5 mm, size 2, outer diameter 2.8 mm, package of 10
230110	**TÜBINGEN Ventilation Tube,** made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.25 mm, size 1, outer diameter 2.6 mm, package of 10
230506	SHEPARD **Ventilation Tube,** teflon, sterile, with retrieval wire, inner diameter 1.1 mm, package of 6
228200	**Gelfoam Press,** length 18 cm
230000	**Ventilation Drainage Tube Inserter,** working length 10 cm

3-993







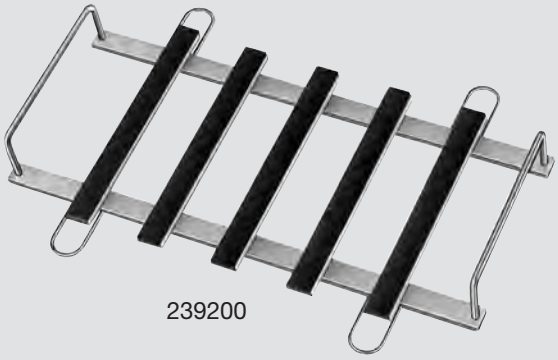
239000	**Metal Case,** perforated, with detachable lid, external dimensions (w x d x h): 300 x 200 x 50 mm
239075	**Same,** 300 x 200 x 75 mm
239020	**Metal Case,** perforated, with detachable lid, external dimensions (w x d x h): 200 x 100 x 40 mm
239600	**Instrument Rack,** for 8 instruments, size 195 x 100 mm
239620	**Instrument Rack,** for 5 instruments, size 195 x 100 mm, with holder for ear specula, for ventilation tube set, may be used with Metal Case 239020
239900	**Instrument Tray,** perforated, size 195 x 100 mm

Please note:
Items 239212 – 239900 can be used with Metal Case 239000.

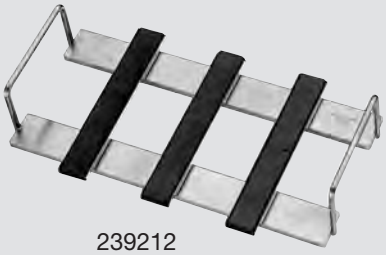
Please note: Metal Cases are not suitable for sterile storage.

Components/Spare Parts see chapter 16

8-11



239200



239212



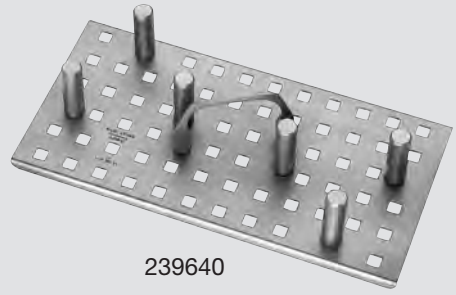
239215

239200	**Magnetic Instrument Rack,** with 2 handles and 5 magnetic stripes, size 280 x 190 mm, may be used with Metal Case 239000 or 239075
239212	**Magnetic Instrument Rack,** with 2 handles and 3 magnetic stripes, size 180 x 95 mm, may be used with Metal Case 239000 or 239075
239215	**Magnetic Instrument Rack,** without handles, with 3 magnetic stripes, size 170 x 150 mm, may be used with Metal Case 239000 or 239075

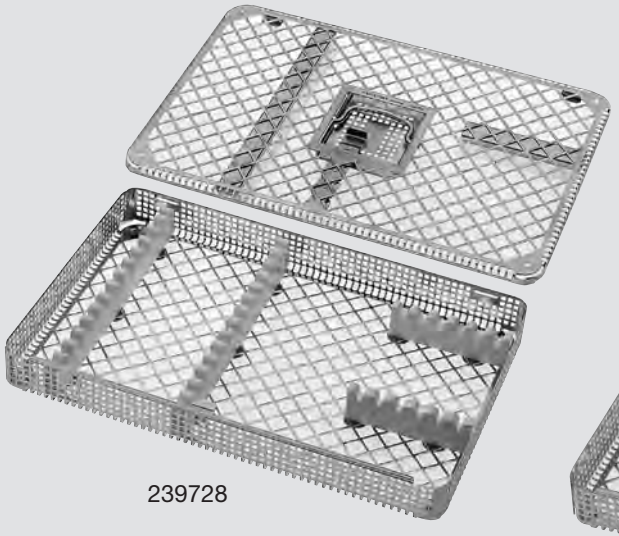
3-87$_5$



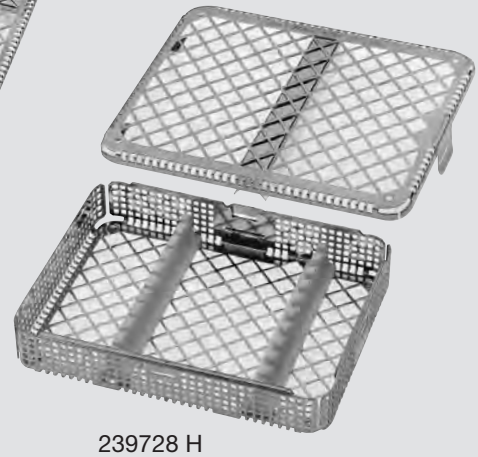
39780 A



239640



239728



239728 H

	39780 A	**MiniSet Container,** with MicroStop®, for sterilization and sterile storage, external dimensions (w x d x h): 310 x 189 x 65 mm, internal dimensions (w x d x h): 283 x 177 x 40 mm including: **Base** **Lid** **Microbiological Barrier,** with MicroStop®
	39781 A	**Same,** external dimensions (w x d x h): 310 x 189 x 80 mm, internal dimensions (w x d x h): 283 x 177 x 60 mm
	239640	**Rack,** for approx. 8 micro ear forceps with ring handle, size 195 x 100 mm
	239728	**Metal Tray,** for sterilization and storage of ear instruments, perforated, base with holder for 20 straight ear micro instruments with octagonal handle, lid with silicone bridges, external dimensions (w x d x h): 275 x 175 x 36 mm
NEW	239728 H	**Same,** base with holder for 10 straight ear micro instruments with octagonal Handle type 223300, external dimensions (w x d x h): 178 x 135 x 37 mm

8-11

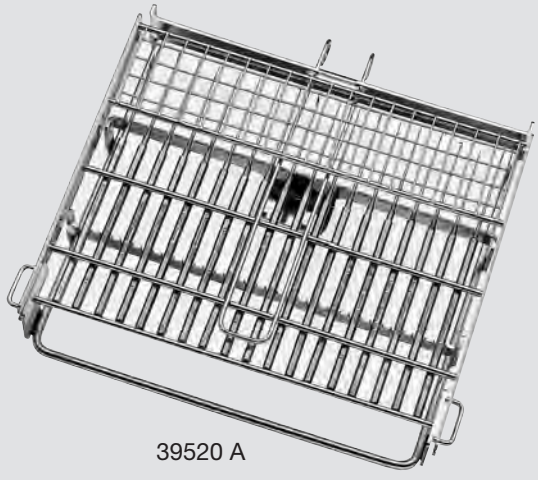
Components/Spare Parts see chapter 16

Further accessories for MiniSet Containers see catalog HYGIENE



39520 AK

NEW 39520 AK **Rack,** provides safe storage of up to 6 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance, with detachable lid, external dimensions (w x d x h): 95 x 215 x 40 mm



39520 A

39520 A **Rack,** provides safe storage of up to 18 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance during surgery, with detachable lid, external dimensions (w x d x h): 230 x 200 x 40 mm (compatible with standard trays)

8-11

LENARZ **Additional Instruments for Cochlear Implantation Operations**

KARL STORZ — ENDOSKOPE

Cochlea implantation is carried out under general anesthetic. Following an incision behind the auricle, formation of the skin flap in the subcutaneous fascia and placement of the scalp clips, a periostial flap is cut around the auditory meatus with an expansion of 1.5 cm x 1.5 cm, forming a periostial pocket for insertion of the implant. This is done with a Plester raspatory (position 32). Using rose-head and diamond drill bits, the mastoidectomy is positioned as such that the cortical bone above, behind and below remains in order to support the electrode. A clear view of the sigmoid sinus, the sinus dura mater angle, the bone plate in the direction of the central cranial bone, the mastoid cavity with the incus, the horizontal kinetic lambyrinth, the posterior wall of the auditory meatus, as well as the outline of the canal for the facial nerve in the mastoid is achieved. The cells on the posterior wall of the auditory meatus need to be completely drilled away so that only the cortical layer remains. A bone bed is created 1 cm behind the mastoid. When doing so, the projection of the electrode outlet is directed towards the sinus dura mater angle.

To facilitate drilling, the periostial skin flap is lifted with the aid of a special suction hook (position 26). Various rose-head and diamond drill bits are used to drill the bone bed. The size of the bone bed can be determined with the aid of a drilling guide. The size is dependent on the type of implant being used. For a nucleus implant only the electronic part of the implant is inset in the bone, whereas the antenna part is positioned in the direction of the occiput under the periost. The formation of the bone bed is considerably simplified by using a diamond drill (position 14). This enables a smooth bone edge to be achieved without damage to the dura mater. The connection of the bone bed to the mastoid is established either via a bone canal or a bone tunnel. Exact projection focused on the sinus dura mater angle virtually excludes any possibility of damage to the sigmoid sinus or the dura mater. The diameter should be slightly larger than the diameter of the cochlea implant electrode.

Then the construction of the posterior tympanotomy is carried out with the assistance of the microscope. Landmarks for this procedure are the position of the horizontal and the so-called digastric bridge which indicates the preceding arch of the beginning of the digastric muscle at the tip of the mastoid. If a line is drawn between the incudostpedial joint and the digastric bridge, the canal for the facial nerve is in a medial position from the line. Then a diamond drill bit, size 2.35 mm is used to carefully drill out the bone lateral to the canal for the facial nerve along the posterior auditory meatus in the direction of the middle ear. In doing so, the bridge remains in place. With careful drilling the chorda tympani becomes visible. By changing to a diamond drill bit with a narrow shaft and a diameter of 1.4 mm (position 17), the posterior tympanotomy can be completed. By utilizing the entire space between the bone encased facial nerve of the chorda tympani and the bridge a sufficient view into the tympanum is achieved where, the incudostapedia joint, the tendons of the stapedial muscle, the promontory of the tympanic cavity and the round window niche can be identified.

Using the same polished drill bit with a diameter of 1.4 mm (position 17) the cochleostomy is now created. First of all the bone lip over the round window is drilled from the cauda to the cranium until the membrane becomes visible. Then the drill is used to prepare the cochleostomy in front of the round window and slightly below its upper end. The promontory bone is thinned until the endosteum becomes visible. The drilling is carried out with continuous irrigation. Using the smaller diamond drill of 1.0 mm (position 16) the surrounding bone is then removed until a diameter of approx. 1.5 mm is achieved. When the endosteum has been sufficiently exposed, it is carved with the aid of a curved needle and then folded to the side. One then has a view of the scala tympani, as well as the basilary membrane on their upper anterior border. Care has to be taken to protect this membrane. If necessary, using this drill or the drill of 0.6 mm (position 15) the cochleostomy can be expanded. Its diameter should be drilled to a maximum of 1.5 mm. The size can be determined with the aid of the hook probe (position 18). Small bone edges can be smoothed with the right angle hooks (position 24 and 25). The bone dust is rinsed out with the aid of a thin suction tube using Ringer's irrigation solution. Then healon is carefully installed in the scala tympani as a lubricant. While doing so, intracochlea increases in pressure are to be avoided.

The implant is then placed in the created bone bed. The SCHÖNBORN thyroid hook (position 27) is used to lift the periost and, subsequently, the electrode cable is introduced into the canal or tunnel which has been prepared and guided in the direction of the mastoid. The electronic model can then be fixed into place in the implant bed with the aid of the taut periostal pocket. Additional suture fixation is not necessary.

The temporal muscle described in the posterior part is then detached. By introducing the Plester raspatory (position 32) the reference electrode can be grasped with an anatomical forceps and pushed under the muscle. The stimulating electrode is then grasped with an introduction forceps for cochlea transplant electrodes (position 20 and 21) and the tip is rotated as such that when being introduced into the cochlea tract it points from the basilary membrane towards the modiolus. The electrode can then be pushed through

11-03

the cochlea gradually with the aid of the forceps and an anatomical forceps. The fine positioning is achieved using a micro guide instrument which is claw-shaped with a tip which is curved upwards or downwards (position 22 and 23). The stylet can subsequently be removed from the electrode.

In the latest version of electrode development the so-called “advanced off stylet technique” is used during the introduction of the electrode. With this technique, after the electrode has been advanced to the marking on the stylet ball it is held in place with the aid of a forceps and then the electrode is advanced further into the cochlea with the aid of an introduction forceps. When it has been completely introduced up to the balloon-shaped enlargement on the shaft of the electrode the electrode is held in place and the stylet is completely removed.

The cochleostomy is closed using small pieces of connective tissue or muscle which are positioned carefully around the electrode. The electrode carrier is stabilized in the drilled mastoid in an S shape using the cortical lip (Fig. 13). In children this has to take the growth process of the cranium into account.

After carrying out the intraoperative electrophysiological measurements (impedance tests on the electrode, reflex thresholds of the stapedius and neural response telemetry) the wound is closed gradually, with the aid of a skin plaster if necessary.

To ensure that the procedure is as atraumatic as possible, it is essential that instruments of the correct size are used, in particular the drill bits and the suction tubes. As one gets closer to the cochlea it becomes increasingly important to use small lumen suction devices and small drill bits. The hand should be well supported at all times. It is essential that drilling is carried out with irrigation in order to prevent overheating of the tissue and, above all, to prevent the development of drilling dust in the cochlea. When introducing the electrode care needs to be taken that it is not squeezed too tightly by the forceps because this could result in damage to the thin electrode wires or the stylet. The specially designed forceps enable the electrode to be grasped securely and guided precisely without compressing the electrode.

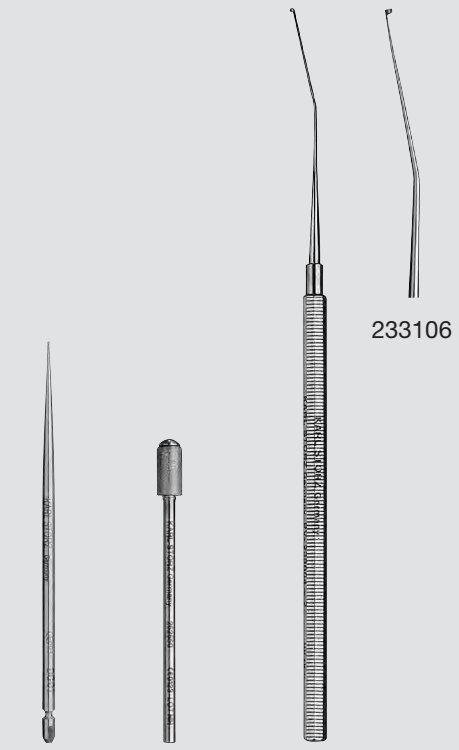
Prof. Dr. Th. LENARZ,
Medizinische Hochschule Hannover,
Klinik und Poliklinik für Hals-Nasen-Ohrenheilkunde,
Hannover, Germany

11-03i

LENARZ **Additional Instruments for Cochlear Implantation Operations** see chapter 9, RECOMMENDED SETS FOR ENT, pages 448-449

Micro Instruments for Cochlear Implantation Operations

Set recommended by Prof. LENARZ

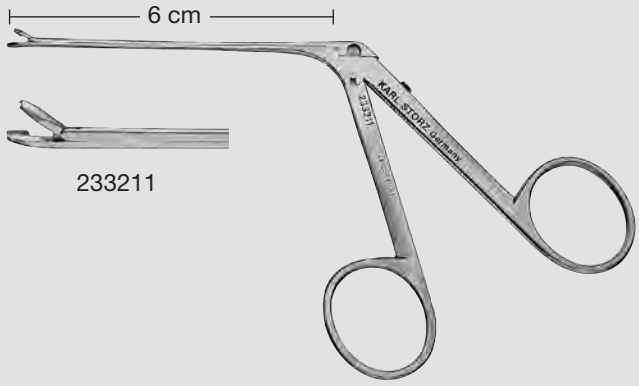


262506
262510
262514

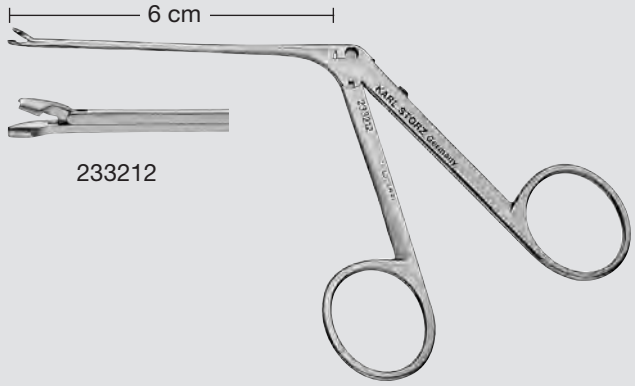
262550

233105

233106



233211

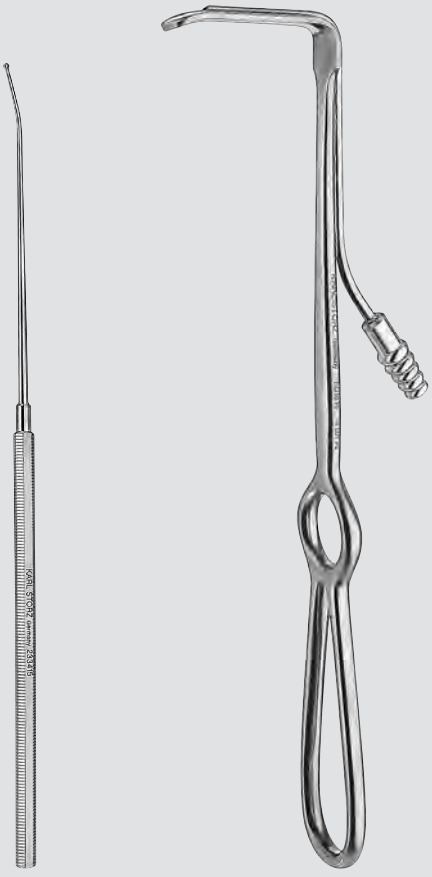


233212

262506	**Diamond Burr,** shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm
262510	**Same,** diameter 1 mm
262514	**Same,** diameter 1.4 mm
262550	**Diamond Burr,** barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip for protection of the dura, with smooth shaft diameter 2.35 mm, length 44 mm
233105	**Micro Guiding Instrument,** for electrodes array, claw-shaped, tip angled downwards, length 16 cm
233106	**Same,** tip angled upwards
233211	**Forceps,** for insertion of cochlea electrodes, nucleus 24 contour, curved to right, working length 6 cm
233212	**Same,** curved to left

11-03

Micro Instruments for Cochlear Implantation Operations



233415 801814

233415 **Seeker,** angled 15°, with ball end, diameter 1.3 mm, length 18 cm

801814 LENARZ **Retractor,** 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm

3-07

LENARZ **Additional Instruments for Cochlear Implantation** see chapter 9, RECOMMENDED SETS FOR ENT, pages 448-449

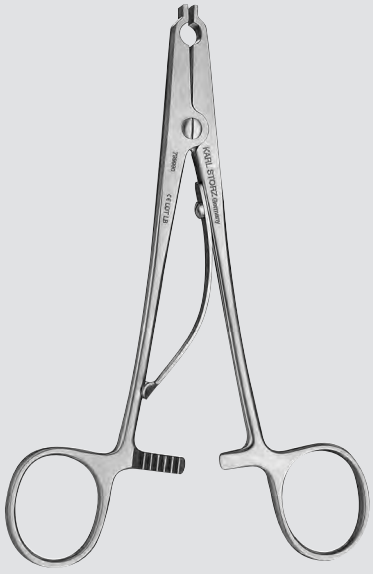
Additional Instruments for Cochlear Implantation Operations



233250



801815



799990



799995

233250	DALCHOW-O'DONOGHUE **Retractor,** for cochlea implant operations including: **Retractor,** with ergonomic handle, cold light illumination, suction channel with cut-off hole, LUER, concave blade, 20 x 30 mm, length 19.5 cm **Fiber Optic Light Carrier,** with suction tube, length 18.5 cm
801815	ISSING **Retractor,** 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm
799990	RANEY **Applying and Removing Forceps,** for scalp haemostasis clips, length 16 cm
799995	RANEY **Scalp Haemostasis Clips,** package of 12

8-11

Components/Spare Parts see chapter 16



MOTOR SYSTEMS

- NEW UNIDRIVE® S III ENT SCB
- NEW UNIDRIVE® S III ECO
- NEW High-Performance EC Micro Motor II
- NEW High-Speed Micro Motors
- NEW INTRA Drill Handpieces
  - Burrs
  - Micro Sagittal Saw, Osseo Scalpel
  - Dermatomes
- NEW High-Speed Handpieces
- NEW High-Speed Burrs

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen: Straightforward function selection via touch screen	●	–
Set values of the last session are stored	●	●
Optimized user control due to touch screen	●	–
Choice of user languages	●	–
Operating elements are single and clear to read due to color display	●	–
One unit – multifunctional: – Shaver system for surgery of the paranasal sinuses and the anterior skull base – INTRA Drill Handpieces (40,000 rpm and 80,000 rpm) – Sinus Shaver – Micro Saw – STAMMBERGER-SACHSE Intranasal Drill – Dermatome	●	●
– High-Speed Handpieces (60,000 rpm and 100,000 rpm)	●	–
Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor	●	●
Soft start function	●	–
Formulated error messages	●	–
Integrated irrigation and coolant pump: – Absolutely homogeneous, micro-processor controlled irrigation rate throughout the entire irrigation range – Quick and easy connection of the tubing set	●	●
Easy program selection via automated motor recognition	●	●
Continuously variable revolution range	●	●
Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling.	●	●
Maximum number of revolutions can be preset	●	●
SCB model with connections to the KARL STORZ Communication Bus (KARL STORZ-SCB)	●	–
Irrigator rod included	●	–

11-034

System specifications

Mode		Order No.	rpm
Shaver mode Operation mode: Max. rev. (rpm):	oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece DrillCut-X® II N Shaver Handpiece	 **40** 7120 50 **40** 7120 55	 10,000* 10,000*
Sinus burr mode Operation mode: Max. rev. (rpm):	rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece DrillCut-X® II N Shaver Handpiece	 **40** 7120 50 **40** 7120 55	 12,000 12,000
High-speed drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: High-Speed Micro Motor	 **20** 7120 33	 60,000/100,000
Drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 40,000/80,000
Micro saw mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 15,000/20,000
Intranasal drill mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 60,000
Dermatome mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 8,000
Power supply:	100 – 240 VAC, 50/60 Hz		
Dimensions: (w x h x d)	300 x 165 x 265 mm		
Two outputs for parallel connection of two motors			
Integrated irrigation pump: Flow:	 adjustable in 9 steps		

* Approx. 4,000 rpm is recommended as this is the most efficient suction/performance ratio.

	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen:	6.E 69 B_Text14" / 300 cd/m²	
Weight:	5.2 kg	4.7 kg
Certified to:	IEC 601-1 CE acc. to MDD	IEC 60601-1
Available languages:	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian	numerical codes

3-05₃

Special features of high-performance EC micro motor II:

- **Self-cooling, brushless high-performance EC micro motor**
- **Smallest possible dimensions**
- **Autoclavable**
- **Can be processed in a cleaning machine**
- **Detachable connecting cable**
- **INTRA coupling enables a wide variety of applications**
- **Maximum torque 4 Ncm**
- **Number of revolutions can be continuously adjusted up to 40,000 rpm**
- **Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle**



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II,** for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable **20** 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable **20** 7111 73



20 7111 73 **Connecting Cable,** to connect High-Performance EC Micro Motor **20** 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- **Brushless high-speed micro motor**
- **Smallest possible dimensions**
- **Autoclavable**
- **Can be processed in a cleaning machine**
- **Maximum torque 6 Ncm**
- **Number of revolutions can be continuously adjusted up to 60,000 rpm**
- **Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle**



20 7120 33

20 7120 33 **High-Speed Micro-Motor,** max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

NEW

Recommended System Configuration

KARL STORZ — ENDOSKOPE

UNIDRIVE® S III ENT SCB



40 7016 20-1

UNIDRIVE® S III ECO



40 7014 20

40 7016 01-1 **UNIDRIVE® S III ENT SCB,** motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
Irrigator Rod
Two-Pedal Footswitch, two-stage, with proportional function
Silicone Tubing Set, for irrigation, sterilizable
Clip Set, for use with silicone tubing set **20** 7116 40
SCB Connecting Cable, length 100 cm
Single Use Tubing Set*, sterile, package of 3

40 7014 01 **UNIDRIVE® S III ECO,** motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
Two-Pedal Footswitch, two-stage, with proportional function
Silicone Tubing Set, for irrigation, sterilizable
Clip Set, for use with silicone tubing set **20** 7116 40
Single Use Tubing Set*, sterile, package of 3

Specifications:

Touch Screen	UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m²	Dimensions w x h x d	300 x 165 x 265 mm
Flow	9 steps	Weight	5.2 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

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UNIDRIVE® S III ENT SCB, NEW
UNIDRIVE® S III ECO

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch



20 0166 30

Silicone Tubing Set



20 7116 40

UNIT SIDE

PATIENT SIDE





High-Speed Micro Motor



20 7120 33

High-performance EC Micro Motor II



20 7110 33
20 7111 73

High-Speed Handpieces



252660 – 252692

INTRA Drill Handpieces



252575 – 252590

Micro Saws



254000 – 254300

Dermatomes



253000 – 253300

11-98₄

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO

KARL STORZ — ENDOSKOPE



280053	**Universal Spray,** 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950 including: **Spray Nozzle**
280053 C	**Spray Nozzle,** for the reprocessing of INTRA burr handpieces, for use with Universal Spray 280053 B



031131-10*	**Tubing Set,** for irrigation, for single use, sterile, package of 10

3-07₁

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

INTRA Drill Handpieces

for ear micro surgery

Special Features:

- **Tool-free closing and opening of the drill**
- **Right/left rotation**
- **Max. rotating speed up to 40,000 or 80,000 rpm**
- **Detachable irrigation tubes**
- **Lightweight construction**
- **Low-vibration operation**
- **Low maintenance**
- **Can be processed in a cleaning machine**
- **Safe grip**



252570



252573



252590



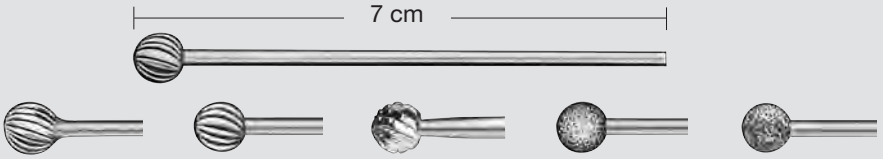
20 7110 33/**20** 7111 73

252570	**INTRA Drill Handpiece,** angled, length 12.5 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
252573	**INTRA Drill Handpiece,** angled, length 12.5 cm, transmission 1:2 (80,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
252590	**INTRA Drill Handpiece,** straight, length 11 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs

High Performance EC Micro Motor 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

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Straight Shaft Burrs, length 7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573



Detail	Size	Dia. mm	Standard	Tungsten Carbide	Transverse Tungsten Carbide	Diamond	Diamond, coarse
	006	0.6	260006	261006	–	262006	–
	007	0.7	260007	261007	–	262007	–
	008	0.8	260008	261008	–	262008	–
	010	1	260010	261010	–	262010	–
	014	1.4	260014	261014	261114	262014	–
	018	1.8	260018	261018	–	262018	–
	023	2.3	260023	261023	261123	262023	262223
	027	2.7	260027	261027	–	262027	262227
	031	3.1	260031	261031	261131	262031	262231
	035	3.5	260035	261035	–	262035	262235
	040	4	260040	261040	261140	262040	262240
	045	4.5	260045	261045	–	262045	262245
	050	5	260050	261050	261150	262050	262250
	060	6	260060	261060	261160	262060	262260
	070	7	260070	261070	–	262070	262270

260000 **Standard Straight Shaft Burr,** stainless, sizes 006 – 070, length 7 cm, set of 15

261000 **Tungsten Carbide Straight Shaft Burr,** stainless, sizes 006 – 070, length 7 cm, set of 15

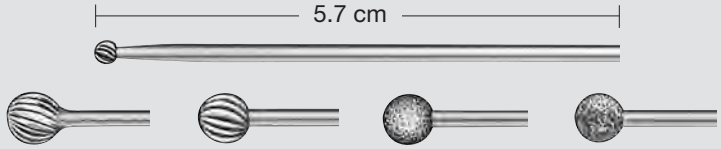
261100 **Tungsten Carbide Straight Shaft Burr,** with cross cut, stainless, sizes 014 – 060, length 7 cm, set of 6

262000 **Diamond Straight Shaft Burr,** stainless, sizes 006 – 070, length 7 cm, set of 15

262200 **Rapid Diamond Straight Shaft Burr,** stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, sizes 023 – 070, length 7 cm, set of 9, color code: gold

3-994

**Straight Shaft Burrs, length 5.7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573**



Detail	Size	Dia. mm	Standard	Tungsten Carbide	Transverse Tungsten Carbide	Diamond	Diamond, coarse
	014	1.4	649614 K	649614 HK	649614 Q	649714 K	–
	018	1.8	649618 K	649618 HK	–	649718 K	–
	023	2.3	649623 K	649623 HK	649623 Q	649723 K	649723 GK
	027	2.7	649627 K	649627 HK	–	649727 K	649727 GK
	031	3.1	649631 K	649631 HK	649631 Q	649731 K	649731 GK
	035	3.5	649635 K	649635 HK	–	649735 K	649735 GK
	040	4	649640 K	649640 HK	649640 Q	649740 K	649740 GK
	045	4.5	649645 K	649645 HK	–	649745 K	649745 GK
	050	5	649650 K	649650 HK	649650 Q	649750 K	649750 GK
	060	6	649660 K	649660 HK	649660 Q	649760 K	649760 GK
	070	7	649670 K	649670 HK	–	649770 K	649770 GK

649600 K **Standard Straight Shaft Burr,** stainless, sizes 014 – 070, length 5.7 cm, set of 11

649600 HK **Tungsten Carbide Straight Shaft Burr,** stainless, sizes 014 – 070, length 5.7 cm, set of 11

649700 K **Diamond Straight Shaft Burr,** stainless, sizes 014 – 070, length 5.7 cm, set of 11

649700 GK **Rapid Diamond Straight Shaft Burr,** stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, sizes 023 – 070, length 5.7 cm, set of 9, color code: gold

Straight Shaft Burrs, cylindrical, barrel-shaped, and bud-shaped



Size	Dia. mm	cylindrical	barrel-shaped	bud-shaped
		length 7 cm		
020	2	262560	–	–
040	4	–	262561	–
050	5	265050	–	263050
060	6	265060	–	263060
070	7	265070	–	263070

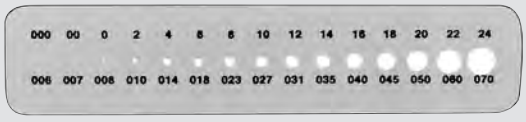
3-995

LINDEMANN **Burrs, conical, stainless, length 7 cm**



Size	Diameter mm	Conical
		sterilizable
018	1.8	263518
021	2.1	263521
023	2.3	263523

Burrs Accessories



280090



280080



280120

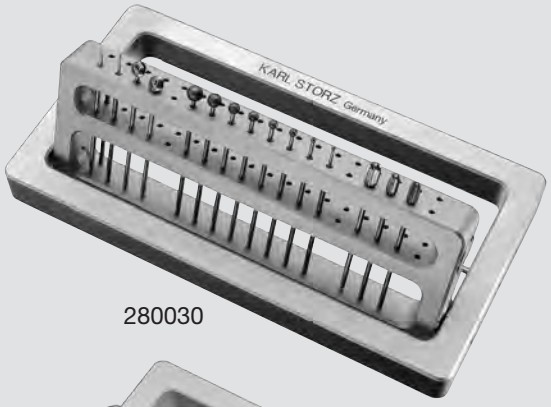
280090 **Size Template,** for drills, stainless steel, sterilizable

280080 **Brush,** for cleaning atraumatic jaws, sterilizable, package of 5

280120 **Temporal Bone Holder,** bowl-shaped, with 3 fixation screws for tensioning the petrosal bone and with evacuation tube for irrigation liquid

11-05₄

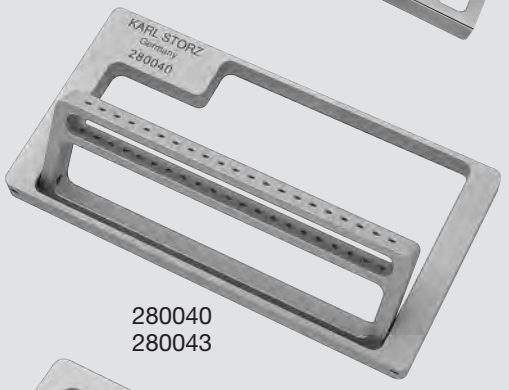
Accessories for Burrs



280030



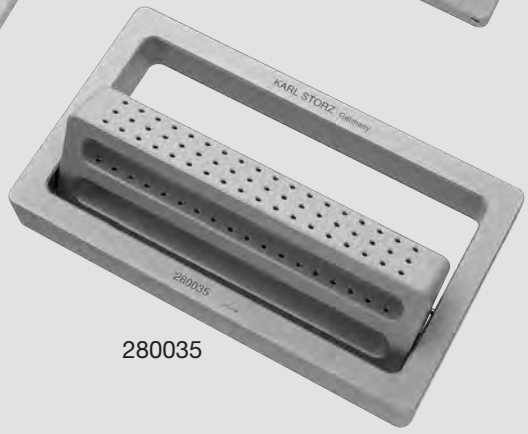
280030 K



280040
280043



280033
280034



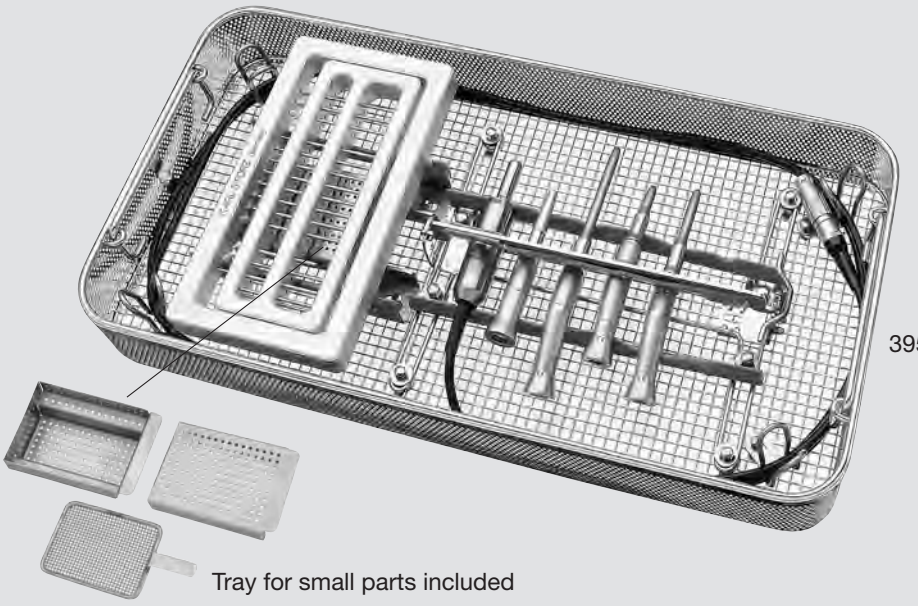
280035

	280030	**Rack,** for 36 straight shaft burrs with a length of 7 cm, foldable, sterilizable, size 22 x 11.5 x 2 cm
	280030 K	**Metal Bar,** for fixation at Rack 280030, to hold 18 burrs with a length of 7 cm and 16 burrs with a length of 5.7 cm, size 16 x 2.5 x 1 cm
	280033	**Rack,** for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
	280034	**Rack,** for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
NEW	280035	**Rack,** for 54 straight shaft burrs with a length of 5 cm (36 pcs) and 7 cm (18 pcs), foldable, sterilizable, size 22 x 12.5 x 3 cm
NEW	280040	**Rack,** flat model, to hold 21 straight shaft burrs with a length of up to 6 cm (6 pcs) and 7 cm (15 pcs), folding model, sterilizable, size 17.5 x 9.5 x 1.2 cm
NEW	280043	**Rack,** flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

Please note: The burrs displayed are not included in the rack.

3-07$_1$

Accessories for Burrs



39552 B

Tray for small parts included

39552 A **Wire Tray,** provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included

for storage of:

– Up to 6 drill handpieces
– Connecting cable
– EC micro motor
– Small parts

39552 B **Wire Tray,** provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**

for storage of:

– Up to 6 drill handpieces
– Connecting cable
– EC micro motor
– Up to 36 drill bits and burrs
– Small parts

11-05

Please note: The instruments displayed are not included in the sterilizing and storage trays.

Oscillating Micro Saws



254000



20 7110 33/**20** 7111 73

254000 **Oscillating Micro Saw,** inbuilt irrigation tube, recommended maximum speed 15,000 rpm corresponds to 15,000 oscillations/min., without saw blades, with fork wrench

Saw blades, short shaft, for use with 254000



254024 **Saw Blade,** short shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 11 mm, package of 1, for use with 254000



254025 **Same,** width of blade 10 mm

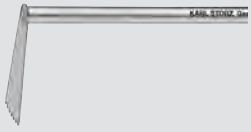


254026 **Same,** width of blade 15 mm

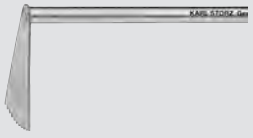


254030 **Same,** blade thickness 0.15 mm, width of blade 6 mm

Saw blades, long shaft, for use with 254000



254027 **Saw Blade,** long shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 26 mm, package of 1, for use with 254000



254028 **Same,** width of blade 10 mm



254029 **Same,** width of blade 15 mm



254031 **Same,** blade thickness 0.15 mm, width of blade 6 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

11-03$_2$

Micro Sagittal Saw, Osseo Scalpel



254100



20 7110 33/**20** 7111 73

254100 **Micro Sagittal Saw,** integrated irrigation tube, recommended maximum speed 20,000 rpm, without saw blades, with fork wrench

Saw Blades, for use with 254100



254170 **Saw Blade,** blade thickness 0.35 mm, width of blade 4 mm, working length 10 mm, package of 12, for use with Micro Sagittal Saw 254100



254171 **Same,** width of blade 6 mm, working length 10 mm



254172 **Same,** width of blade 6 mm, working length 15 mm



254173 **Same,** width of blade 10 mm, working length 15 mm



254174 **Same,** width of blade 12 mm, working length 27 mm



254175 **Same,** width of blade 6 mm, working length 10 mm



254200



20 7110 33/**20** 7111 73

254200 **Osseo Scalpel, Micro Saw,** with axial/sagittal cut, pendulum stroke, especially appropriate for 3-dimensional incision guiding, integrated irrigation tube, recommended maximum speed 20,000 rpm, without saw blades, with fork wrench

Saw Blades, for use with 254200



254235 **Saw Blade,** blade thickness 0.35 mm, working length 12 mm, package of 12, for use with Osseo Scalpel, Micro Saw 254200



254236 **Same,** working length 18 mm



254237 **Same,** working length 24 mm

11-03$_2$

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

Micro Compass Saws



254300



20 7110 33/**20** 7111 73

254300 **Micro Compass Saw,** detachable irrigation tube, recommended maximum speed 15,000 rpm, without saw blades, with fork wrench

Saw Blades, for use with 254300



254312 **Saw Blade,** blade thickness 0.25 mm, working length 11 mm, package of 12, for use with 254300



254313 **Same,** working length 14 mm



254314 **Same,** working length 18 mm



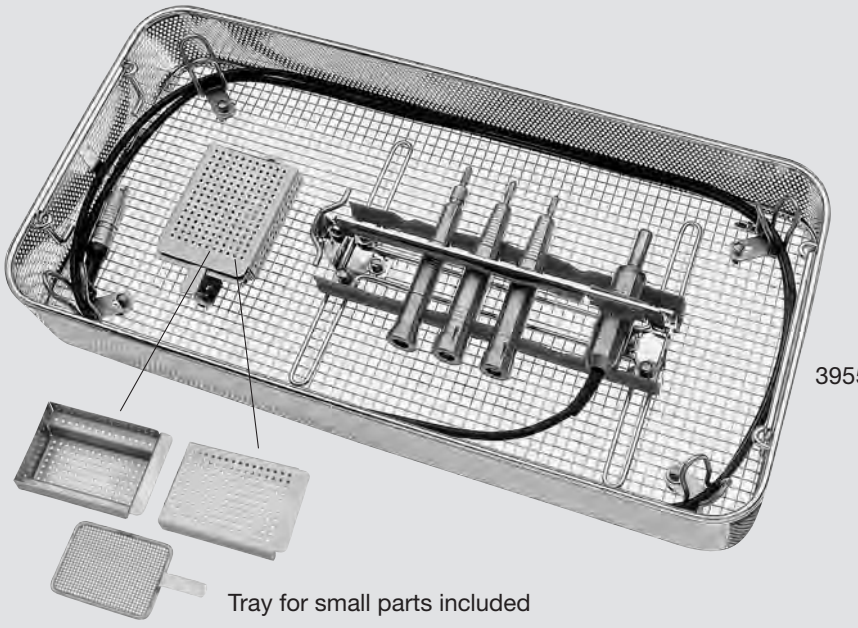
254315 **Same,** working length 22 mm



254316 **Same,** working length 26 mm

11-03$_2$

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16



39553 A

Tray for small parts included

39553 A **Wire Tray,** provides safe storage of accessories for the KARL STORZ micro saw system during cleaning and sterilization, includes basket for small parts

for storage of:

– Up to 6 saw handpieces
– Connecting cable
– EC micro motor
– Saw blades

11-05

Please note: The instruments displayed are not included in the sterilizing and storage tray.

Dermatomes

Special Features:

- **For removing skin and mucosa**
- **Dermaplaning for obtaining small pieces of skin from behind the ear**
- **Can be easily adapted to motor**
- **Optimal setting of the incision depth**
- **Lightweight construction**



20 7110 33/**20** 7111 73



253000

253000 **Dermatome,** with INTRA coupling, width of incision 12 mm, recommended maximum speed 8000 rpm

253001 **Replacement Blade,** for Dermatome 253000, width of incision 12 mm, sterile, package of 10



253100

253100 **Dermatome,** with INTRA coupling, width of incision 25 mm, recommended maximum speed 8000 rpm

253101 **Replacement Blade,** for Dermatome 253100, width of incision 25 mm, sterile, package of 10



253200

253200 **Dermatome,** with INTRA coupling, width of incision 50 mm, recommended maximum speed 8000 rpm

253201 **Replacement Blade,** for Dermatome 253200, width of incision 50 mm, sterile, package of 10



253300

253300 **Dermatome,** with INTRA coupling, width of incision 75 mm, recommended maximum speed 8000 rpm

253301 **Replacement Blade,** for Dermatome 253300, width of incision 75 mm, sterile, package of 10

11-03$_2$

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81

Accessories for Dermatomes



39554 A

39554 A **Wire Tray,** provides safe storage of accessories for the KARL STORZ dermatome system during cleaning and sterilization

for storage of:

– Up to 2 dermatomes
– Connecting cable
– EC micro motor with INTRA coupling

11-05

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB NEW

High-Speed Handpieces, angled, 100,000 rpm

For use with High-Speed Drills, shaft diameter 3.17 mm and with High-Speed Micro Motor 20 7120 33

100,000 rpm
diameter 7.5 mm



20 7120 33



252680



252681

252680	**High-Speed Handpiece,** short, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252681	**High-Speed Handpiece,** medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

High-Speed Micro Motor 20 7120 33 see page 81

UNIDRIVE® S III ENT SCB NEW

High-Speed Handpieces, angled and straight, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



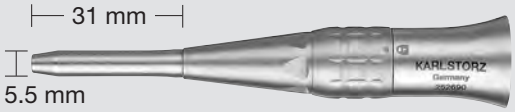
20 7120 33



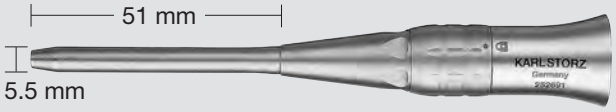
252660



252661



252690



252691

252660	**High-Speed Handpiece,** extra short, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252661	**High-Speed Handpiece,** short, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252690	**High-Speed Handpiece,** extra short, straight, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252691	**High-Speed Handpiece,** short, straight, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

3-13

High-Speed Micro Motor 20 7120 33 see page 81

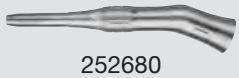
UNIDRIVE® S III ENT SCB NEW

High-Speed Standard Burrs, High-Speed Diamond Burrs

KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Standard Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
1	350110 S	350110 M
2	350120 S	350120 M
3	350130 S	350130 M
4	350140 S	350140 M
5	350150 S	350150 M
6	350160 S	350160 M
7	350170 S	350170 M



High-Speed Diamond Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
1	350210 S	350210 M
2	350220 S	350220 M
3	350230 S	350230 M
4	350240 S	350240 M
5	350250 S	350250 M
6	350260 S	350260 M
7	350270 S	350270 M

3-13

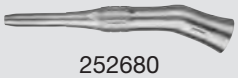
UNIDRIVE® S III ENT SCB NEW

**High-Speed Diamond Burrs, High-Speed Acorns,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burr**

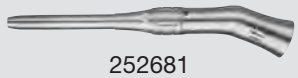
KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Coarse Diamond Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
3	350330 S	350330 M
4	350340 S	350340 M
5	350350 S	350350 M
6	350360 S	350360 M
7	350370 S	350370 M



High-Speed Acorns, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
7.5	350675 S	350675 M
9	350690 S	350690 M



High-Speed Barrel Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
6	350960 S	350960 M
9.1	350991 S	350991 M



High-Speed Neuro Fluted Burr, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium
1.8	350718 S	350718 M
3	350730 S	350730 M

3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Standard Burrs, High-Speed Diamond Burrs

KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm


252660


252661


252690


252691



High-Speed Standard Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra short	short
1	330110 ES	330110 S
2	330120 ES	330120 S
3	330130 ES	330130 S
4	330140 ES	330140 S
5	330150 ES	330150 S
6	330160 ES	330160 S
7	330170 ES	330170 S



High-Speed Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra short	short
0.6	330206 ES	330206 S
1	330210 ES	330210 S
1.5	330215 ES	330215 S
2	330220 ES	330220 S
3	330230 ES	330230 S
4	330240 ES	330240 S
5	330250 ES	330250 S
6	330260 ES	330260 S
7	330270 ES	330270 S

3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN **High-Speed Fluted Burrs**

KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm


252660


252661


252690


252691





High-Speed Coarse Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra short	short
3	330330 ES	330330 S
4	330340 ES	330340 S
5	330350 ES	330350 S
6	330360 ES	330360 S
7	330370 ES	330370 S



High-Speed Cylinder Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra short	short
4	330440 ES	330440 S
6	330460 ES	330460 S

LINDEMANN **High-Speed Fluted Burrs, 60,000 rpm, for single use, sterile, package of 5**

Size in mm (diameter x length)	extra short	short
Diameter 2.1/11	330511 ES	330511 S
Diameter 2.3/26	330526 ES	330526 S

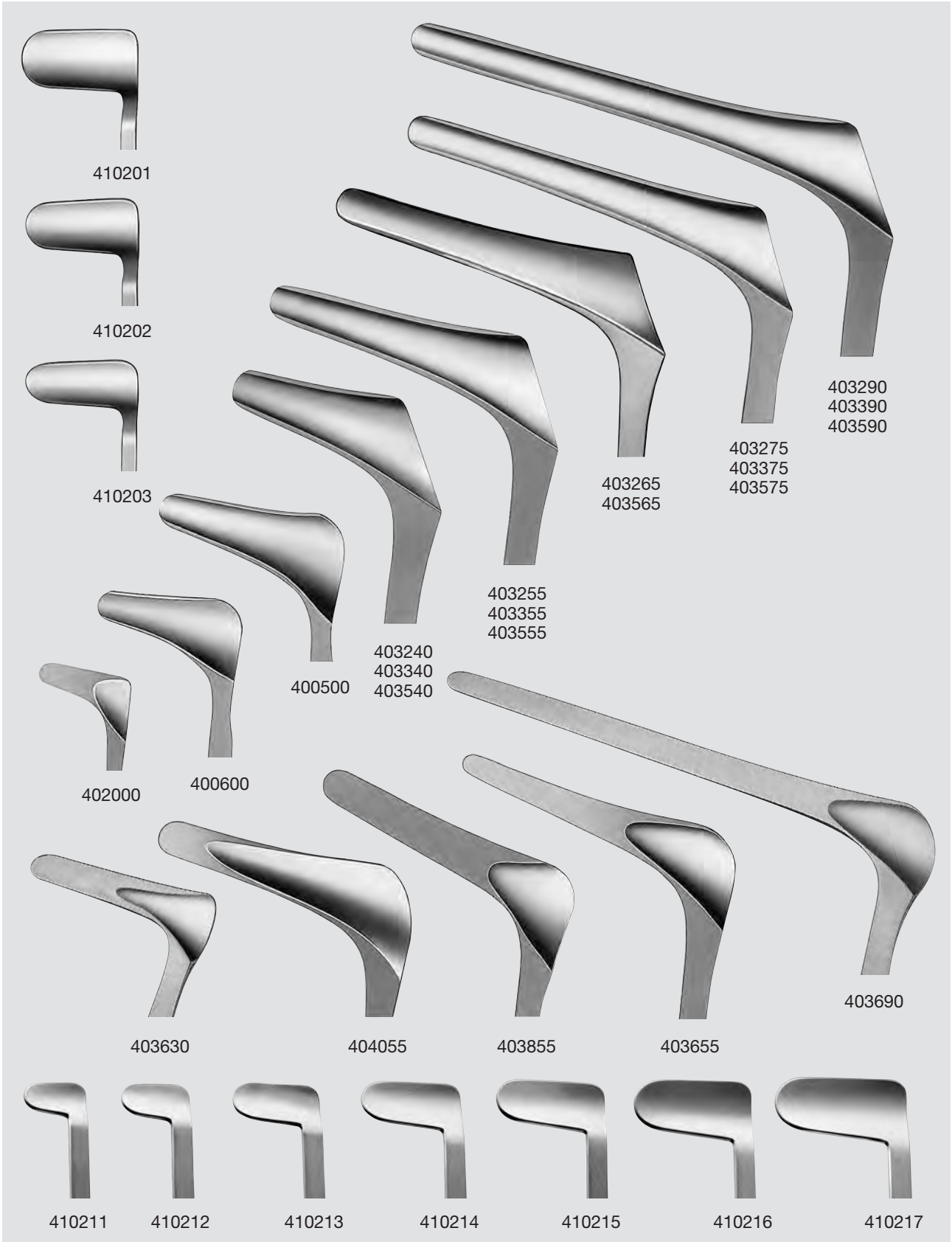
3-13



INSTRUMENTS FOR RHINOLOGY AND RHINOPLASTY

Nose

Instruments for Rhinology and Rhinoplasty



For a description of the instruments see pages 106-108

10-98



400500



400520



400600



402000



410201 – 410203



410211 – 410217

400500	HARTMANN **Nasal Speculum,** for adults, length 13 cm
400520	BECKMANN **Nasal Speculum,** for adults, curved sidewards, length 15 cm
400600	HARTMANN **Nasal Speculum,** for children, length 13 cm
402000	HALLE-TIECK **Nasal Speculum,** for infants, length 13 cm
410201	THUDICHUM **Nasal Speculum,** self-retaining, large, blade size 18 x 11.5 mm, length 6.5 cm
410202	**Same,** medium, blade size 18 x 9.5 mm
410203	**Same,** small, blade size 18 x 8.5 mm
410211	THUDICHUM/MARK HOVELL **Nasal Speculum,** self-retaining, blade size 8.5 x 6 mm, length 7 cm
410212	**Same,** 9 x 7 mm
410213	**Same,** 12.5 x 8 mm
410214	**Same,** 15 x 8.5 mm
410215	**Same,** 16.5 x 9 mm
410216	**Same,** 18 x 10 mm
410217	**Same,** 19.5 x 10.5 mm

10-98$_2$

Components/Spare Parts see chapter 16



403240 –
403290



403340 –
403390



403540 –
403590



403240	KILLIAN-STRUYCKEN **Nasal Speculum,** with set rack, blade length 40 mm, length 15 cm
403255	**Same,** blade length 55 mm
403265	**Same,** blade length 65 mm
403275	**Same,** blade length 75 mm
403290	**Same,** blade length 90 mm



403340	KILLIAN-STRUYCKEN **Nasal Speculum,** with set screw, blade length 40 mm, length 15 cm
403355	**Same,** blade length 55 mm
403375	**Same,** blade length 75 mm
403390	**Same,** blade length 90 mm



403540	KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 40 mm, length 13.5 cm
403555	**Same,** blade length 55 mm
403565	**Same,** blade length 65 mm
403575	**Same,** blade length 75 mm
403590	**Same,** blade length 90 mm

10-98

Components/Spare Parts see chapter 16



403630 –
403690



403835 –
403890



404040 –
404055

403630	COTTLE **Nasal Speculum,** blade length 35 mm, length 13 cm
403655	**Same,** blade length 55 mm
403675	**Same,** blade length 75 mm
403690	**Same,** blade length 90 mm
403755	COTTLE **Nasal Speculum,** with slender blades, with set screw, blade length 55 mm, length 13 cm
403835	COTTLE **Nasal Speculum,** with set screw, blade length 35 mm, length 13 cm
403855	**Same,** blade length 55 mm
403865	**Same,** blade length 65 mm
403875	**Same,** blade length 75 mm
403890	**Same,** blade length 90 mm
404040	**Nasal Speculum,** with fiber optic light carrier, blade length 40 mm, length 13.5 cm
404055	**Same,** blade length 55 mm

5-95$_3$

Components/Spare Parts see chapter 16



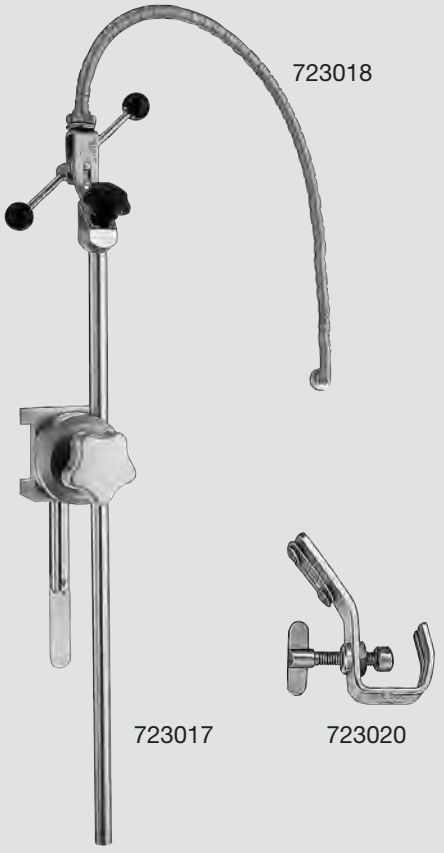
404455 –
404475



404555 –
404575

404455	RUDERT **Nasal Speculum,** for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
404465	**Same,** left blade length 65 mm
404475	**Same,** left blade length 75 mm
404555	RUDERT **Nasal Speculum,** for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
404565	**Same,** right blade length 65 mm
404575	**Same,** right blade length 75 mm

8-11



For use with Nasal Specula 404455 – 404475, 404555 – 405575

723017	**Rotating Clamp,** with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail
723018	**Flexible Tension Arm,** length 50 cm
723020	**Connector,** for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

3-99$_3$

Components/Spare Parts see chapter 16



416800



417013
417017



417217



417600



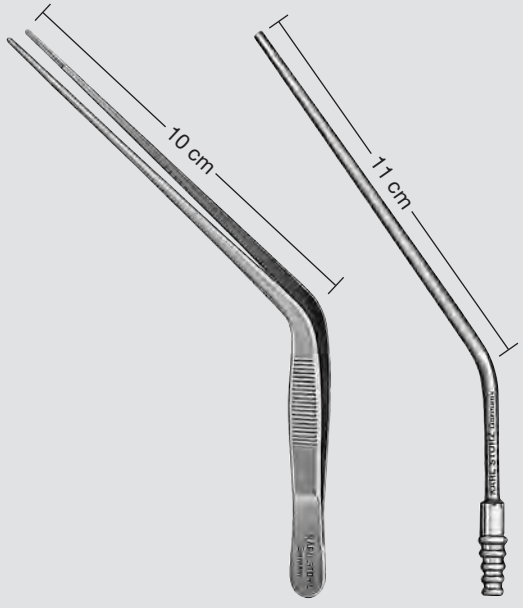
420000



423700



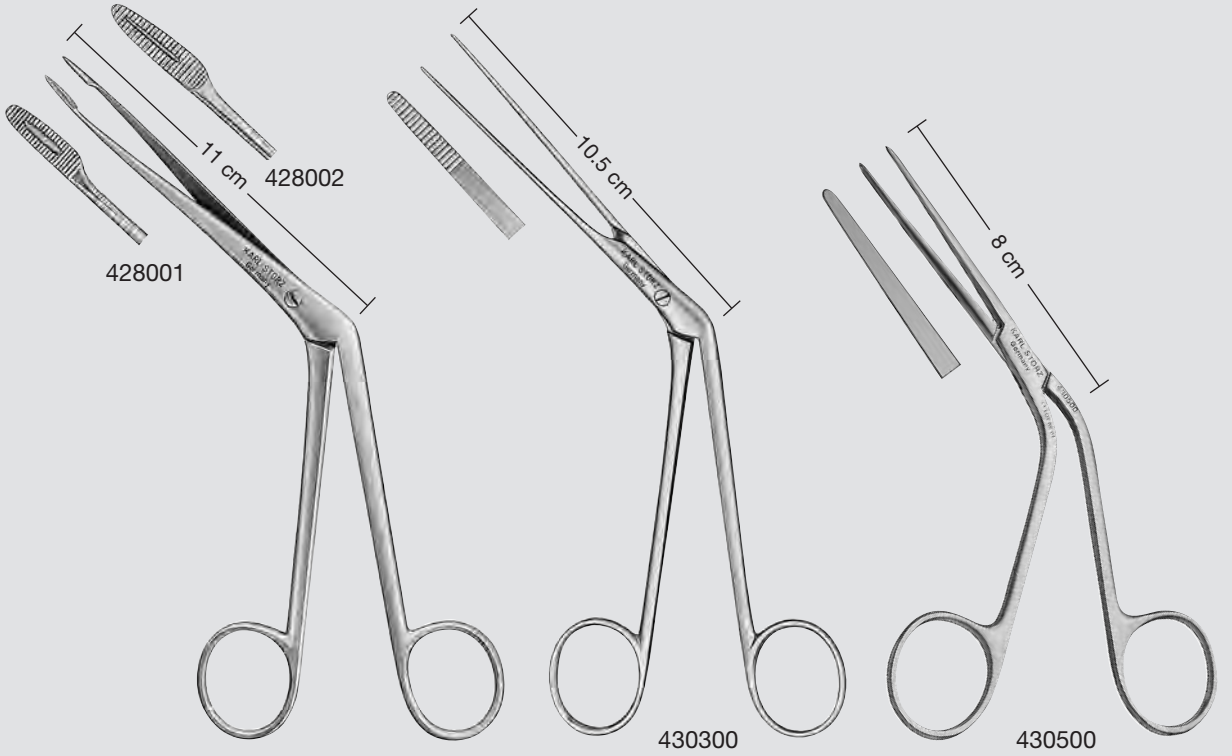
426516
426620

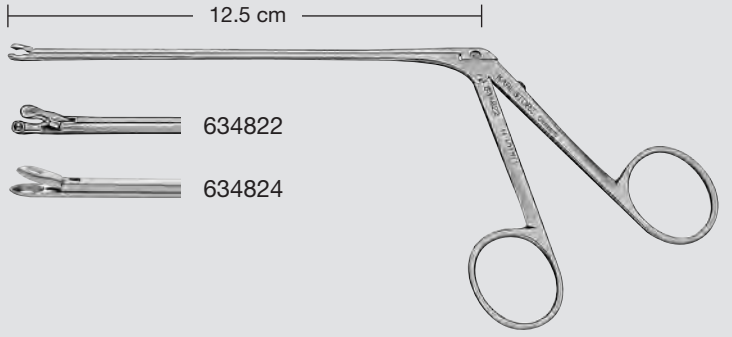


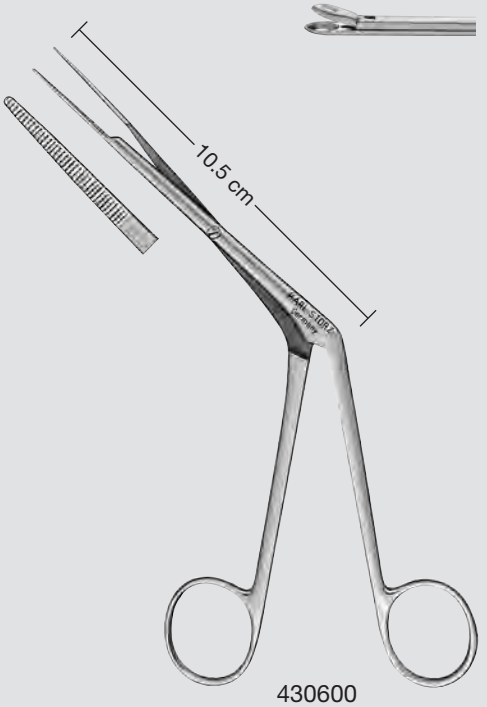
426900 203835

416800	**Nasal Probe,** curved, working length 11 cm, total length 18 cm
417013	**Cotton Applicator,** standard model, triangular, serrated, diameter 1.3 mm, length 15 cm
417017	**Same,** diameter 1.7 mm
417217	ZIEGLER **Cotton Applicator,** with thread, diameter 1.7 mm, length 17.5 cm
417600	FROHN **Cotton Applicator,** twisted end, length 16 cm
420000	SIEBENMANN **Gauze Applicator,** length 18 cm
423700	REUTER **Epistaxis Balloon Catheter,** sterile
426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
426620	GRÜNWALD **Nasal Dressing Forceps,** bayonet-shaped, length 20 cm
426900	TRÖLTSCH **Nasal Dressing Forceps,** angular, working length 10 cm
203835	**Suction Tube,** conical, LUER, outer diameter 3.5 mm, working length 11 cm

6-96₂

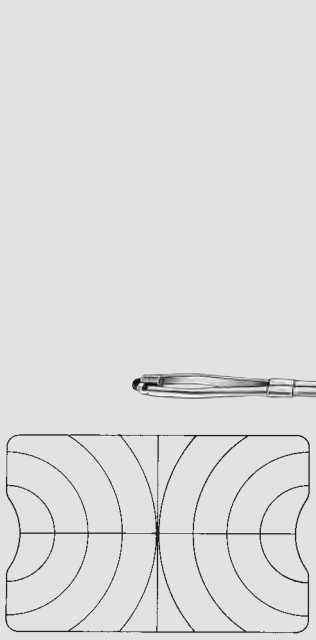




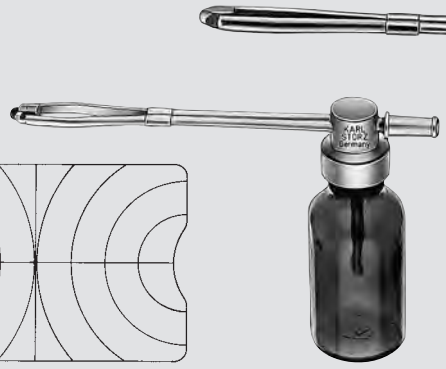


428001	HARTMANN **Nasal Dressing Forceps,** light model, working length 11 cm
428002	**Same,** standard size, working length 11 cm
430300	LUBET-BARBON **Nasal Dressing Forceps,** serrated, working length 10.5 cm
430500	YANKAUER **Nasal Dressing Forceps,** smooth, working length 8 cm
430600	WEST **Nasal Dressing Forceps**, extra light model, serrated, working length 10.5 cm
634822	HARTMANN **Forceps,** with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
634824	STRÜMPEL **Forceps,** with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm

11-03



439200



437520



437600



436610

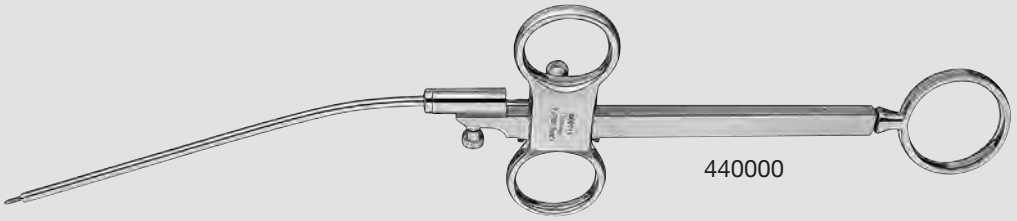


437000

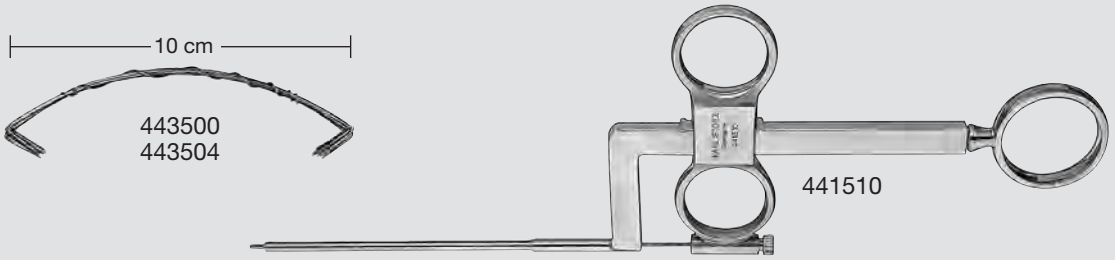
436610	**Nasal Atomizer,** straight, including graduated Container 10455 for local anaesthetic, for use with Rubber Bulb 437000
437000	**Rubber Bulb,** for Nasal Atomizer 436610, latex-free
437520	DE VILBIS **Nasal Atomizer,** with adjustable tip, rubber bulb and large bottle
437600	DE VILBIS **Nasal Atomizer,** with adjustable tip, rubber bulb, with bottle and rack
439200	GLATZEL **Nasal Mirror,** (CZERMAK's plate) for verification of nasal ventilation capacity, 13 x 20 cm

3-99$_3$

Components/Spare Parts see chapter 16



440000 KRAUSE **Nasal Snare,** length 25 cm

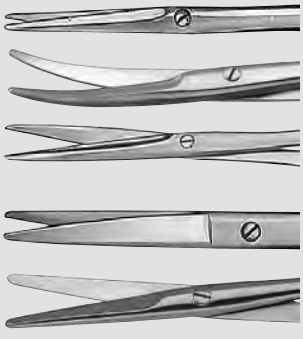


441510 LANGE **Nasal Snare,** bayonet-shaped, length 24 cm

443500 **Nasal Snare Wire,** for 440000 – 441510, standard size, diameter 0.3 mm, length 10 cm, package of 25

443504 **Same,** diameter 0.4 mm, package of 25





449001 HEYMANN **Nasal Scissors,** small, working length 9 cm

449001 L **Nasal Scissors,** small, curved left, workingh length 9 cm

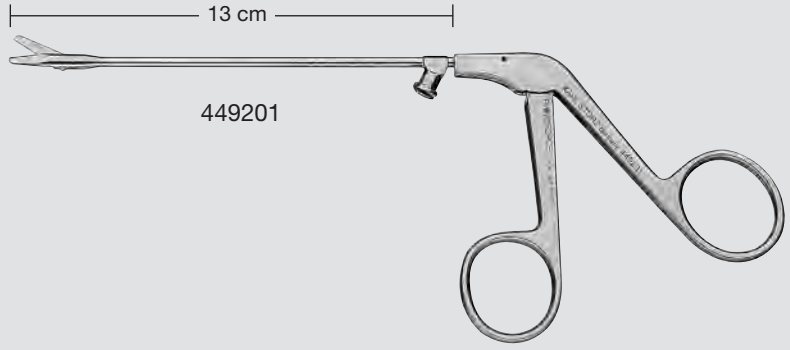
449002 HEYMANN **Nasal Scissors,** medium (standard model), working length 9.5 cm

449003 HEYMANN **Nasal Scissors,** large, working length 11 cm

449012 HEYMANN **Nasal Scissors,** medium, serrated blades, working length 9.5 cm

11-98$_2$

Components/Spare Parts see chapter 16





449201 **RHINOFORCE® II Nasal Scissors,** straight, with cleaning connector, working length 13 cm



449202 **Same,** curved to right



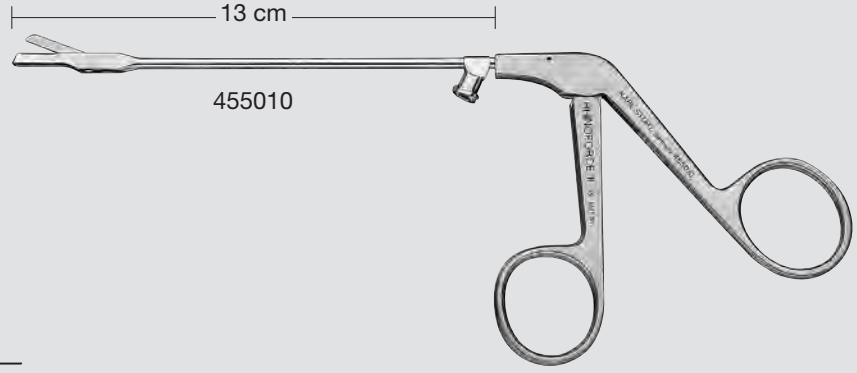
449203 **Same,** curved to left

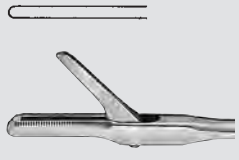


449204 **RHINOFORCE® II Nasal Scissors,** cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm



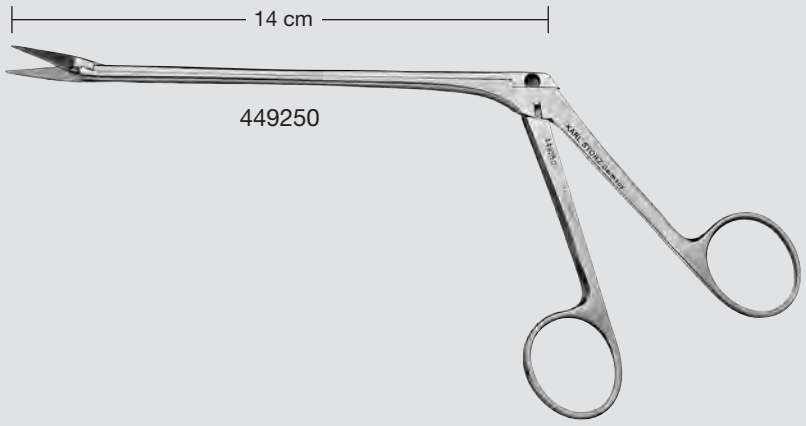
449205 **Same,** curved downwards

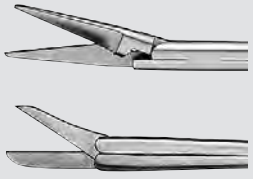




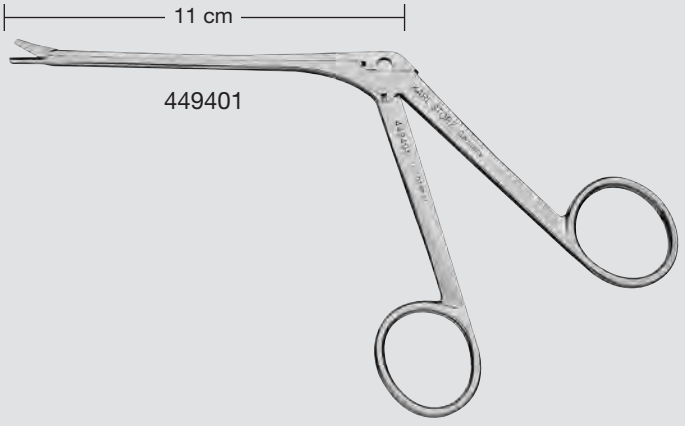
455010 STRUYCKEN **RHINOFORCE® II Nasal Cutting Forceps,** with cleaning connector, working length 13 cm

11-98₂





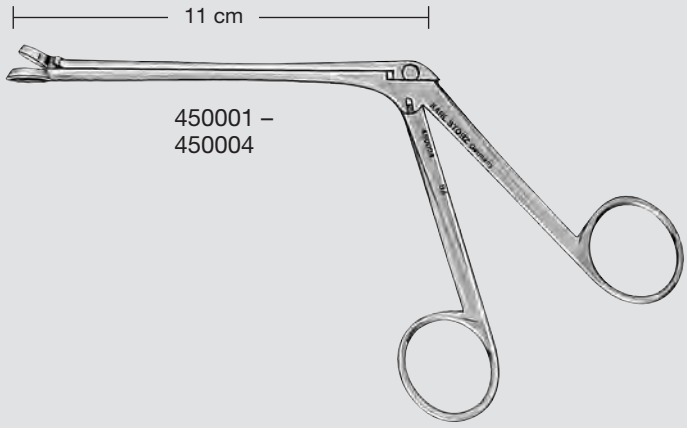
449250	**Nasal Scissors,** ZÜRICH model, straight, large model, cutting length 18 mm, working length 14 cm
449251	**Same,** small model, cutting length 12 mm, working length 12 cm





449401	**Nasal Scissors,** straight, slender model, serrated, cutting length 10 mm, working length 11 cm
449402	**Same,** curved to right
449403	**Same,** curved to left

11-03







450001 HARTMANN **Nasal Cutting Forceps,** round, size 1, working length 11 cm

450002 **Same,** size 2

450003 **Same,** size 3

450004 **Same,** size 4





453501 GRÜNWALD-HENKE **Nasal Cutting Forceps,** size 1, working length 11 cm

453502 **Same,** size 2





453711 WATSON-WILLIAMS **Nasal Cutting Forceps,** 45° upturned, extra delicate, with basket, size 1, working length 13 cm

453712 **Same,** without basket, size 2





454001 SCHMEDEN **Nasal Cutting Forceps,** size 1, working length 11 cm

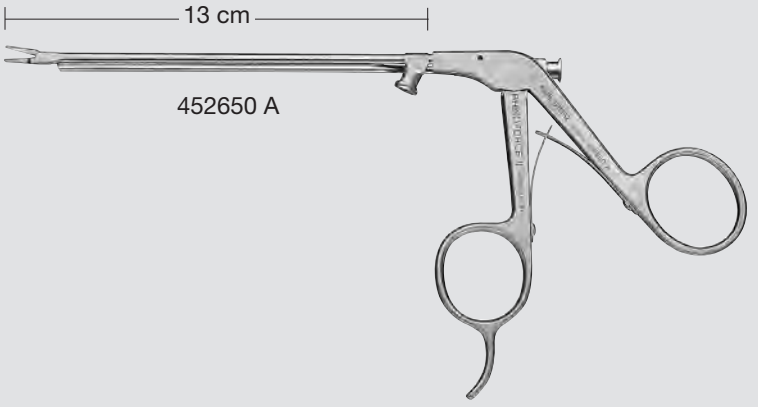
454002 **Same,** size 2

454003 **Same,** size 3

11-98₂

MONTGOMERY-YOUNGS **RHINOFORCE® II Clip Applicator, for endonasal endoscopic sphenopalatine artery ligature**

Winner of the 2006 Cutler Surgical Prize





The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A — MONTGOMERY-YOUNGS **RHINOFORCE® II Clip Applicator,** for endonasal endoscopic sphenopalatine artery ligature, with suction channel, handle with spring, straight, with cleaning connector, working length 13 cm, for use with Titanium Clips 8665 T

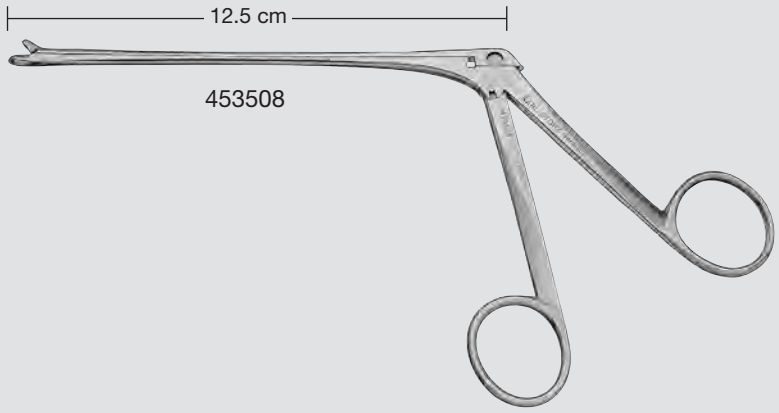


452650 C — **Same,** jaws angled to the right



452650 D — **Same,** jaws angled to the left

3-07₁





453508 **Nasal Forceps,** straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm



453508 K **Same,** with foreign body basket

453710 **Same,** 45° upturned



453509 **Nasal Forceps,** straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm



453510 **Same,** robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm



453511 **Same,** robust model, large, bite 3 x 7.5 mm, working length 10.5 cm



453721 **Nasal Forceps,** 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm



453722 **Same,** robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm

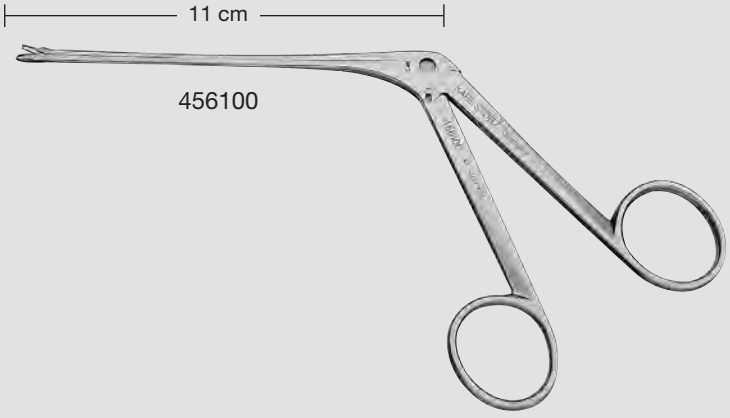


453723 **Same,** robust model, medium size, bite 2.75 x 6 mm, working length 10.5 cm



453724 **Same,** robust model, large, bite 3 x 8 mm, working length 10.5 cm

11-03$_1$





456100 **Nasal Forceps,** straight, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm



456101 **Same,** width 3.5 mm



456102 **Same,** width 4.2 mm



456103 **Same,** width 4.8 mm



456111 R **Nasal Forceps,** curved to right, through-cutting, tissue-sparing, BLAKESLEY shape, width 3.5 mm, working length 11 cm



456111 L **Same,** curved to left



456120 **Nasal Forceps,** 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm



456121 **Same,** width 3.5 mm

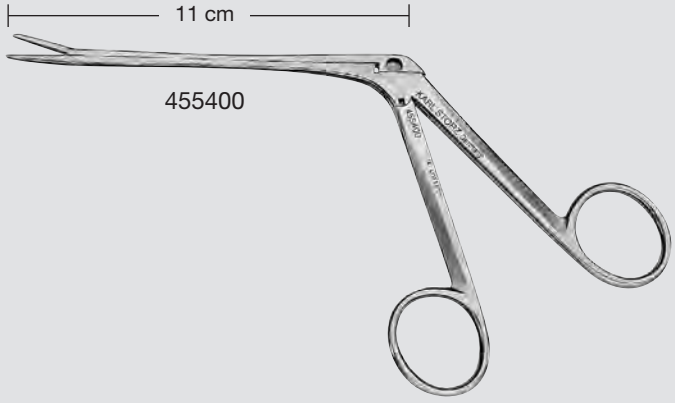


456122 **Same,** width 4.2 mm



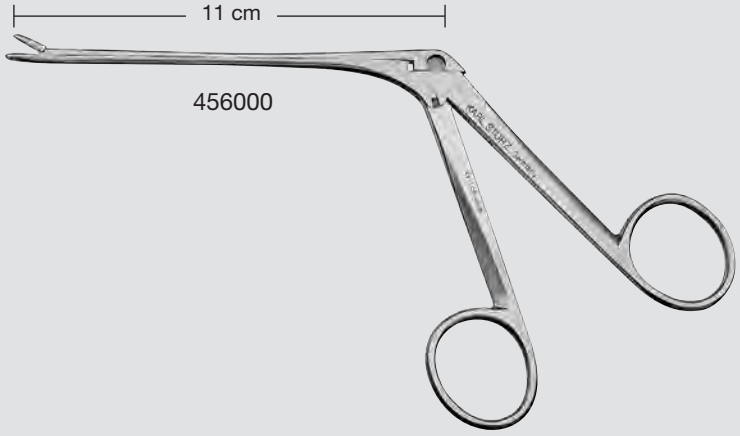
456123 **Same,** width 4.8 mm

11-03$_2$





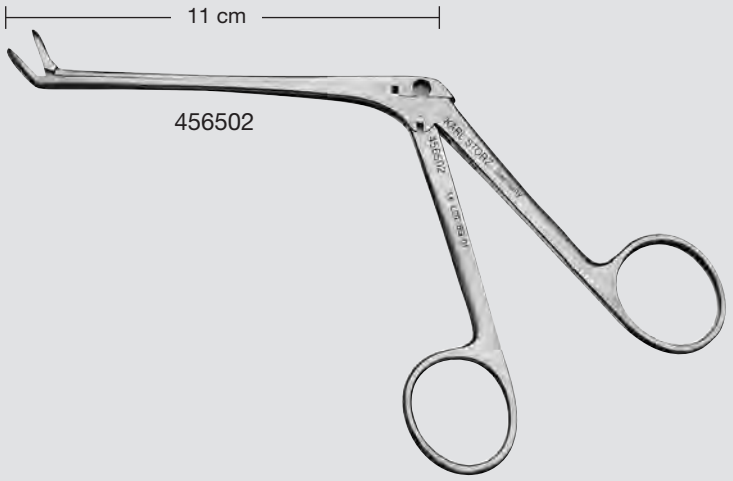
455400	NOYES-HARTMANN **Nasal Forceps,** serrated jaws, working length 11 cm





456000	BLAKESLEY **Nasal Forceps,** straight, size 0, working length 11 cm
456001	**Same,** size 1
456001 L	**Same,** size 1, working length 15 cm
456002	BLAKESLEY **Nasal Forceps**, straight, size 2, working length 11 cm
456003	**Same,** size 3
456004	**Same,** size 4

11-03







456500 BLAKESLEY-WILDE **Nasal Forceps,**
45° upturned, size 0, working length 11 cm



456501 **Same,** size 1



456502 **Same,** size 2



456503 **Same,** size 3



456504 **Same,** size 4





456801 BLAKESLEY-WILDE **Nasal Forceps,**
90° upturned, size 1, working length 11 cm



456802 **Same,** size 2



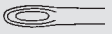
456803 **Same,** size 3





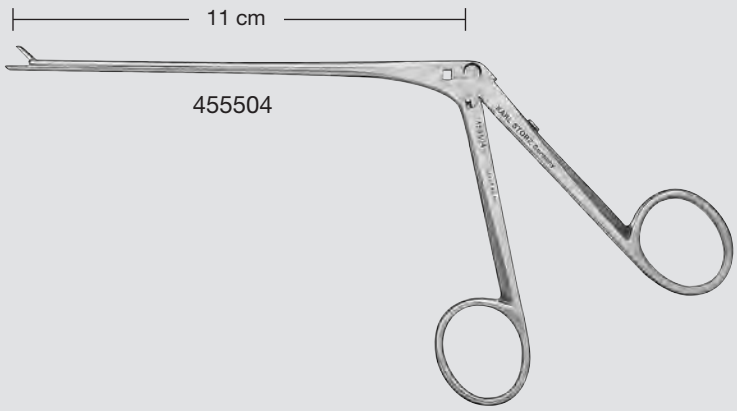
456811 BLAKESLEY-WILDE **Nasal Forceps,**
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm





457720 BLAKESLEY-WIGAND **Nasal Forceps,**
60° upturned, long jaws 6 x 20 mm,
rounded tips, for grasping polyps and
adenoid rests, working length 11 cm

11-03$_2$





455500 TAKAHASHI **Nasal Forceps,** straight, working length 9.5 cm

455500 L TAKAHASHI **Nasal Forceps,** straight, diameter 3 mm, working length 15 cm



455504 TAKAHASHI **Nasal Forceps,** straight, delicate, working length 12.5 cm



457500 WATSON-WILLIAMS **Nasal Forceps,** 45° upturned, working length 10 cm



457505 WATSON-WILLIAMS **Nasal Forceps,** 45° upturned, delicate, oval cupped jaws, working length 12.5 cm



457700 TAKAHASHI **Nasal Forceps,** 30° upturned, cupped jaws 9 x 2.5 mm, working length 10 cm



457711 KAMEL **Nasal Forceps,** 45° upturned, cupped jaws 12 x 4 mm, working length 11 cm



457712 **Same,** cupped jaws 20 x 4 mm

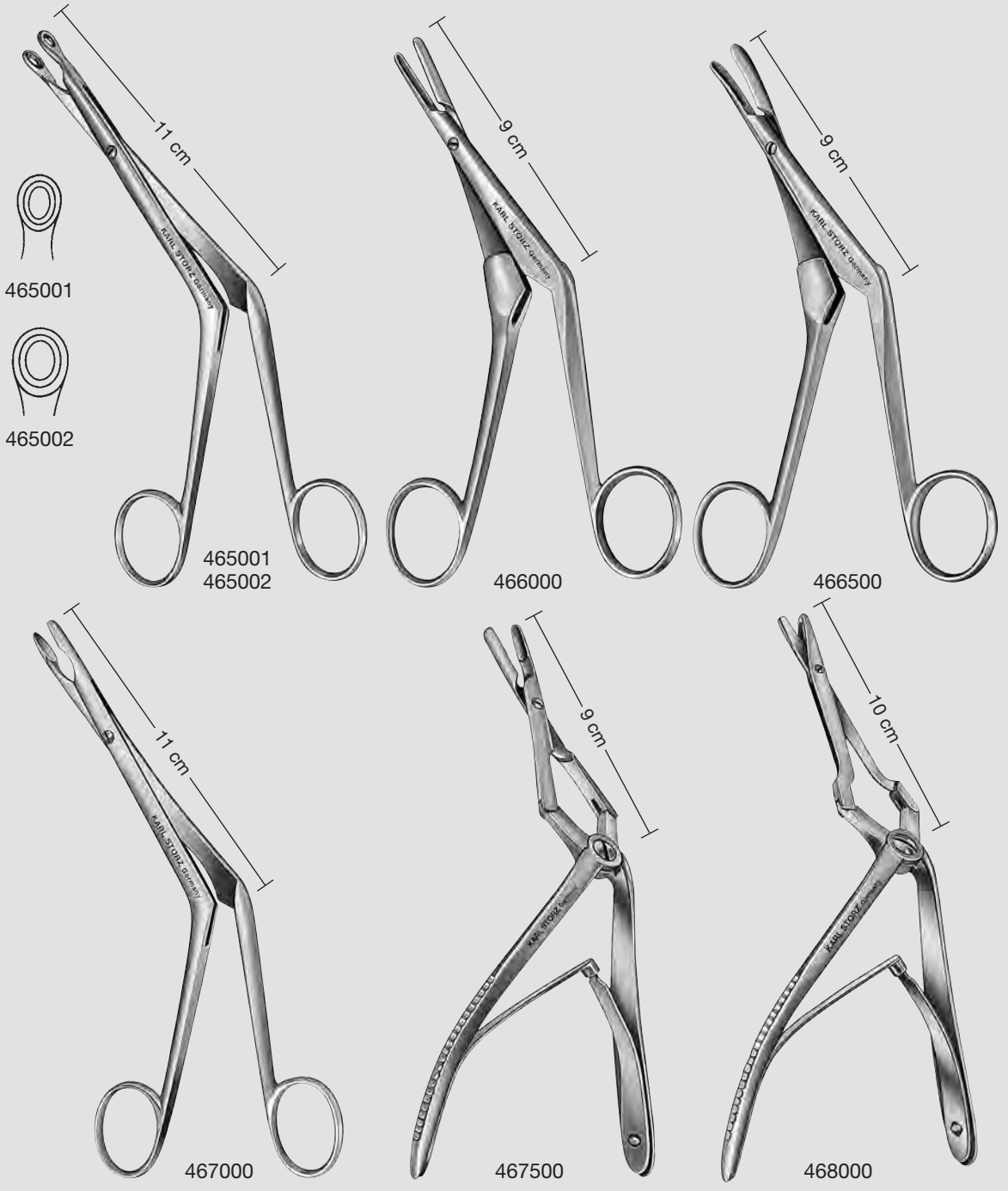


458000 WATSON-WILLIAMS **Nasal Forceps,** straight, with serrated jaws, working length 11 cm



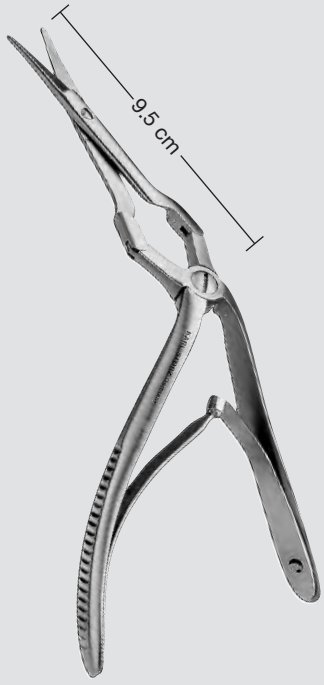
489045 FERRIS-SMITH **Nasal Forceps,** serrated, working length 11 cm

11-03$_2$



465001	BRÜNINGS-LUC **Septum Forceps,** size 1, working length 11 cm
465002	**Same,** size 2
466000	CRAIG **Septum Forceps,** straight, working length 9 cm
466500	CRAIG-DOMNICK **Septum Forceps,** curved, working length 9 cm
467000	HEYMANN-KNIGHT **Septum Forceps,** straight, working length 11 cm
467500	JANSEN **Septum Forceps,** angular, not through-cutting, working length 9 cm
468000	JANSEN-MIDDLETON **Septum Forceps,** angular, through-cutting, working length 10 cm

3-87$_2$



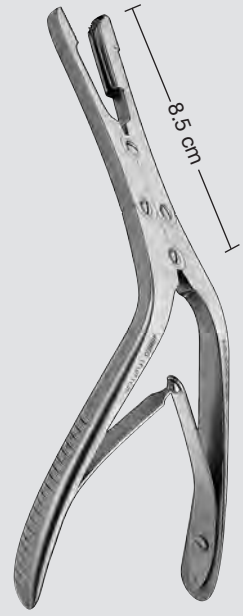
468500



469000



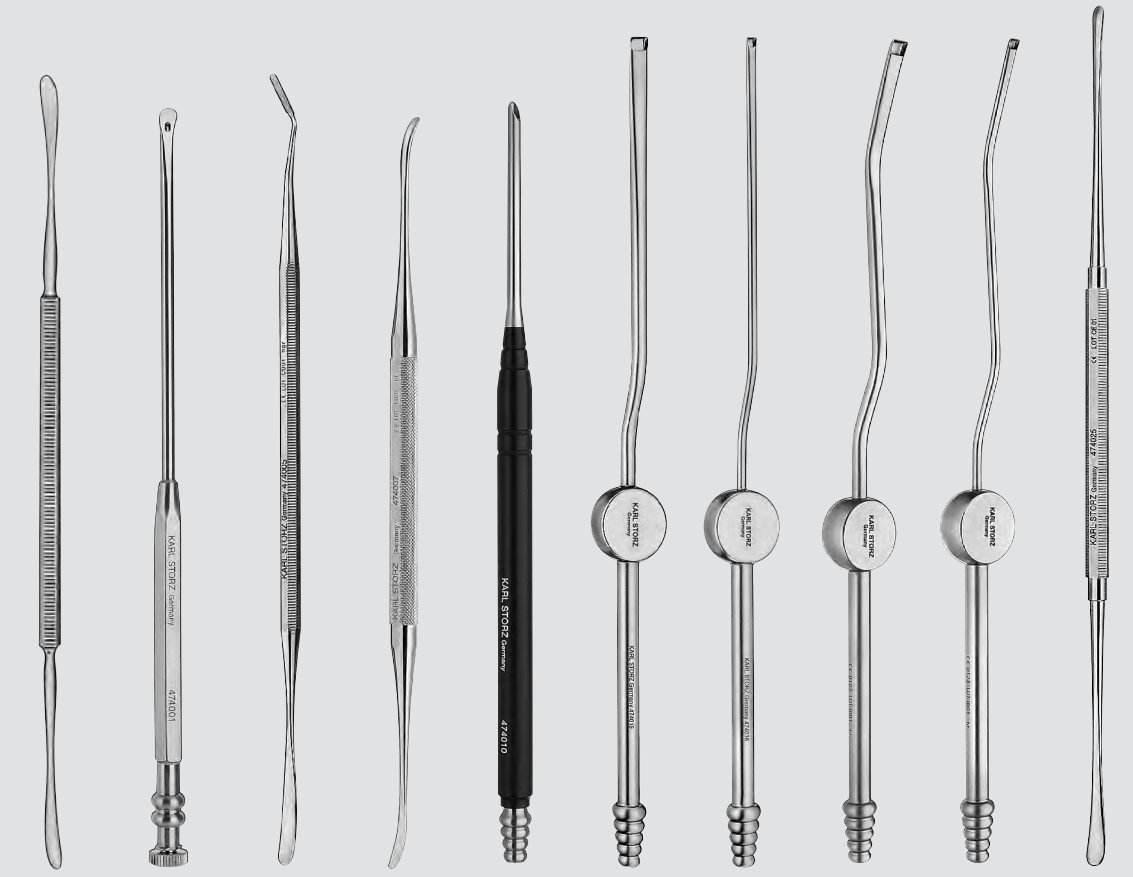
469200



469600

468500	BECKER-CAPLAN **Septum Scissors,** double action jaws, serrated, working length 9.5 cm
469000	KAZANJIAN **Forceps,** length 20 cm
469200	ROWLAND-MEYER **Nasal Hump Forceps,** double action jaws, curved blades, length 20 cm
469600	RUBIN **Septum Morcelizer,** with double joint, working length 8.5 cm

3-99$_2$



474000 474001 474005 474007 474010 474015 474016 474017 474018 474025

	474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
	474001	FREER **Suction Elevator,** with stylet, length 19 cm
	474005	FREER-JACOBS **Elevator,** double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
	474007	FREER-YASARGIL **Elevator,** double-ended, length 18.5 cm
	474010	HARALDSSON **Suction Elevator,** with rotatable tube olive, length 19 cm
	474015	CASTELNUOVO **Suction Elevator,** flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
	474016	**Same,** flat tip 3 x 1.8 mm
NEW	474017	CASTELNUOVO **Suction Elevator,** flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
NEW	474018	**Same,** 3 x 1.8 mm
	474025	**Elevator,** double-ended, both sides sharp, length 22 cm

3-07$_1$



474200



474205



474210



474519

474200	FREER-JOSEPH **Elevator,** double-ended, slender, semisharp and sharp, length 20 cm
474205	FREER-WEBER **Elevator,** double-ended, one side slightly curved FREER elevator, semisharp, other side strongly curved, sharp, length 19 cm
474210	HOWARTH **Elevator,** double-ended, sharp and blunt, length 21 cm
474519	KILLIAN **Elevator,** double-ended, standard model, sharp and blunt, length 19 cm

3-99$_3$



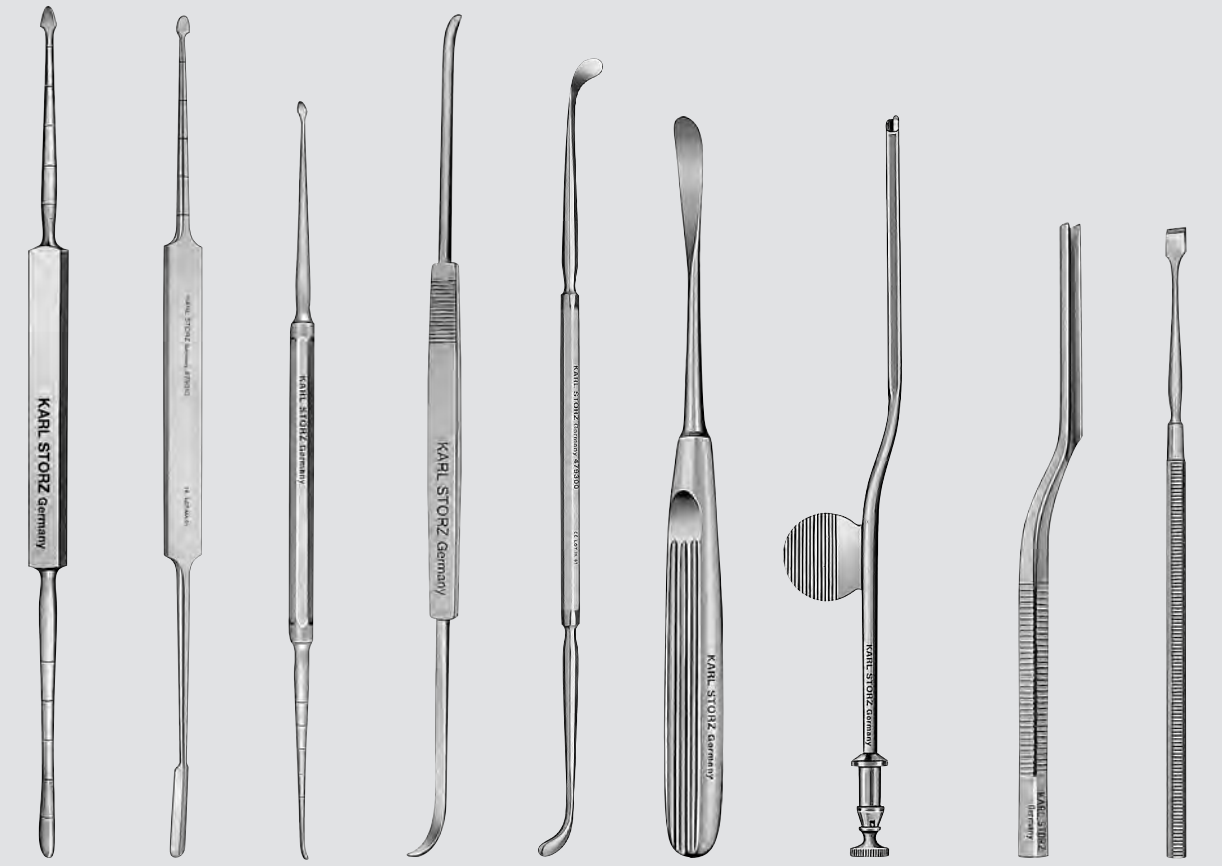
477004 | 477098 | 477500 | 477703 477704 | 478000 | 478303 – 478305 | 478400

477004	HALLE **Elevator,** blunt, width 4 mm, length 19 cm
477098	**Ala Dilator,** for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
477703	BALLENGER **Swivel Knife,** bayonet-shaped, width 3 mm, length 19.5 cm
477704	**Same,** width 4 mm
478000	JOSEPH **Raspatory,** slightly curved, length 17.5 cm
478303	McKENTY **Raspatory,** width 3 mm, length 14.5 cm
478304	**Same,** width 4 mm
478305	**Same,** width 5 mm
478400	McKENTY **Elevator,** double-ended, width 4.5 and 5 mm, length 19 cm

3-99$_3$

Nose

Instruments for Rhinology and Rhinoplasty



479000 479010 479100 479200 479300 479408 479800 480000 480800

	479000	MASING **Elevator,** double-ended, graduated, sharp and blunt, length 22.5 cm
NEW	479010	FULEIHAN **Elevator,** double-ended, one end JOSEPH elevator, other end sharp, graduated, length 22.5 cm
	479100	COTTLE **Elevator,** double-ended, semisharp and blunt, graduated, length 20 cm
	479200	COTTLE **Raspatory,** double-ended, for tunneling, length 22.5 cm
	479300	PENNINGTON **Elevator,** double-ended, curved to the right and left, length 21 cm
	479408	COTTLE **Raspatory,** slightly curved, width 8 mm, length 19.5 cm
	479800	**Suction Raspatory,** with stylet, length 19.5 cm
	480000	KILLIAN-CLAUS **Septum Chisel,** V-shaped cutting edge, length 16.5 cm
	480800	FREER **Septum Chisel,** straight, length 16.5 cm

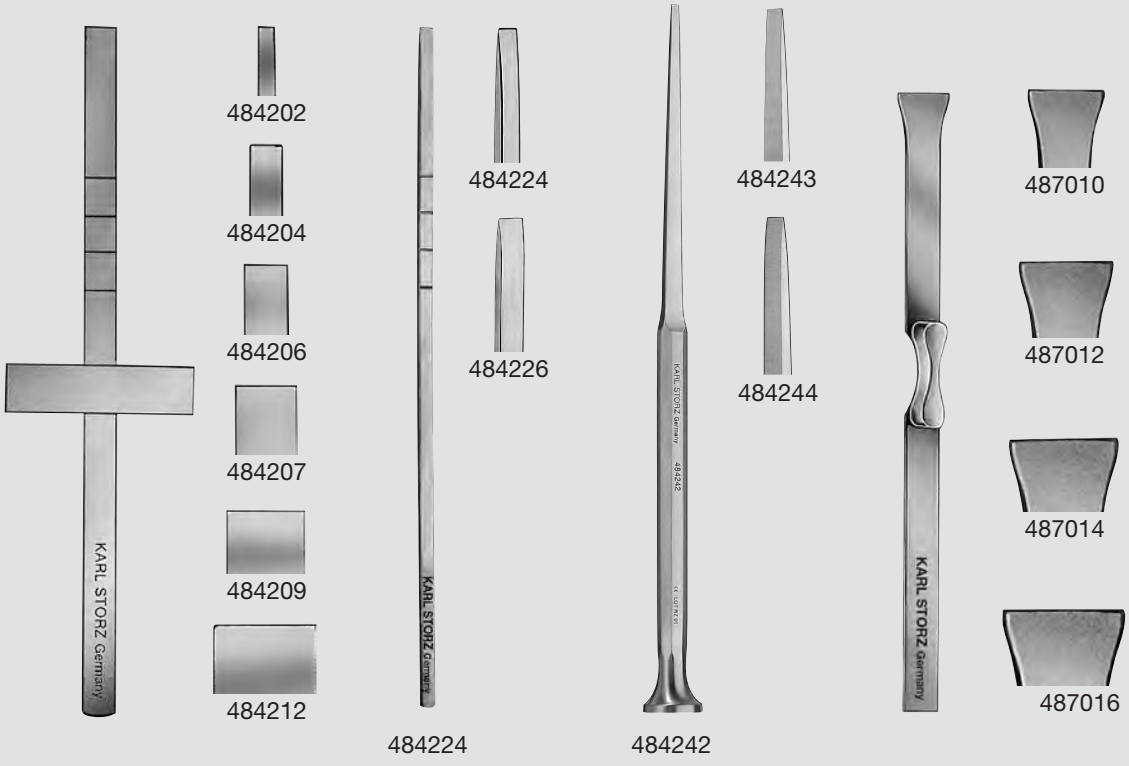
3-993



174200	COTTLE **Metal Mallet,** length 18 cm
174420	**Metal Mallet,** small model, diameter 20 mm, length 19.5 cm
174426	**Metal Mallet,** medium model, diameter 26 mm, length 19.5 cm
174430	**Metal Mallet,** large model, diameter 30 mm, length 19.5 cm
174700	**Metal Mallet,** with plastic replacement head, small, lightweight model, length 18 cm
174800	**Metal Mallet,** with plastic replacement head, length 22.5 cm
484003	COTTLE **Chisel,** flat, graduated, straight, width 3 mm, length 18.5 cm
484004	**Same,** width 4 mm
484006	**Same,** width 6 mm
484007	**Same,** width 7 mm
484009	**Same,** width 9 mm
484012	**Same,** width 12 mm
484106	COTTLE **Chisel,** flat, graduated, curved, width 6 mm, length 18.5 cm

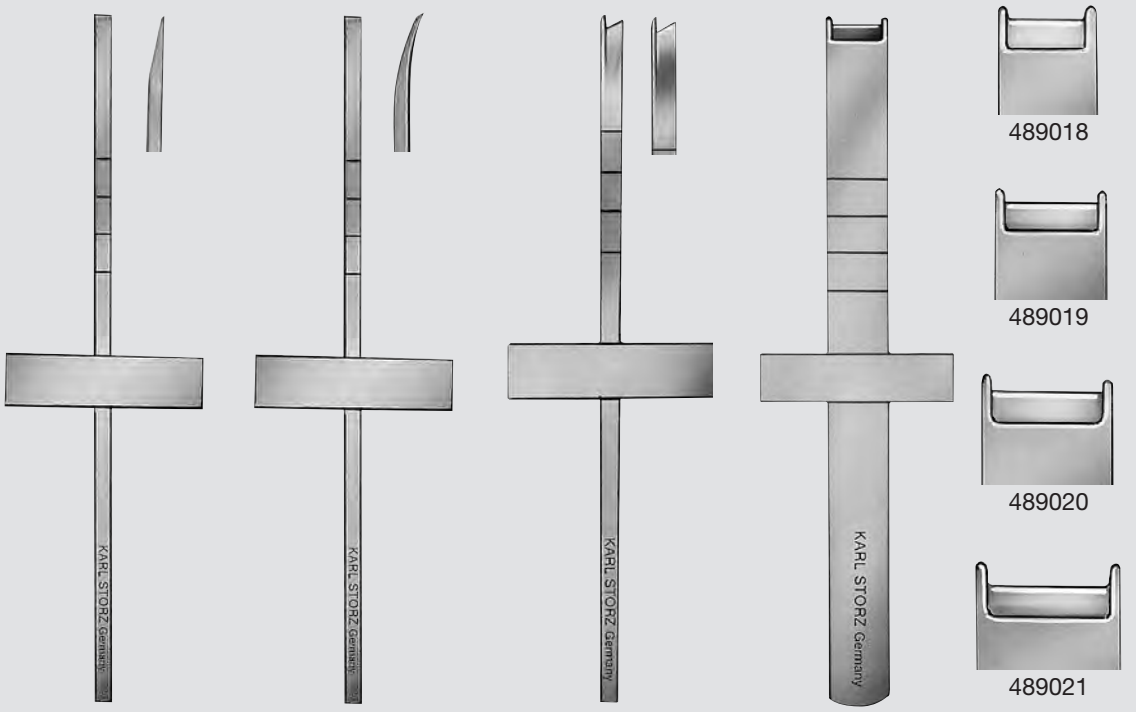
3-99$_2$

Components/Spare Parts see chapter 16



	484202	COTTLE **Crossbar Osteotome,** graduated, double-edged grinding, straight, width 2 mm, length 18.5 cm
	484204	**Same,** width 4 mm
	484206	**Same,** width 6 mm
	484207	**Same,** width 7 mm
	484209	**Same,** width 9 mm
	484212	**Same,** width 12 mm
	484224	COTTLE **Crossbar Osteotome,** graduated, double-edged grinding, straight, width 4 mm, length 18.5 cm
	484226	**Same,** width 6 mm
NEW	484242	**Osteotome,** straight, double-edged grinding, width 2 mm, length 19 cm
NEW	484243	**Same,** width 3 mm
NEW	484244	**Same,** width 4 mm
	487010	RUBIN **Osteotome,** flat, straight, double-edged grinding, rounded corners, with finger grip stabilizer, width of cut 10 mm, length 16.5 cm
	487012	**Same,** width 12 mm
	487014	**Same,** width 14 mm
	487016	**Same,** width 16 mm

8-11



484304
484306

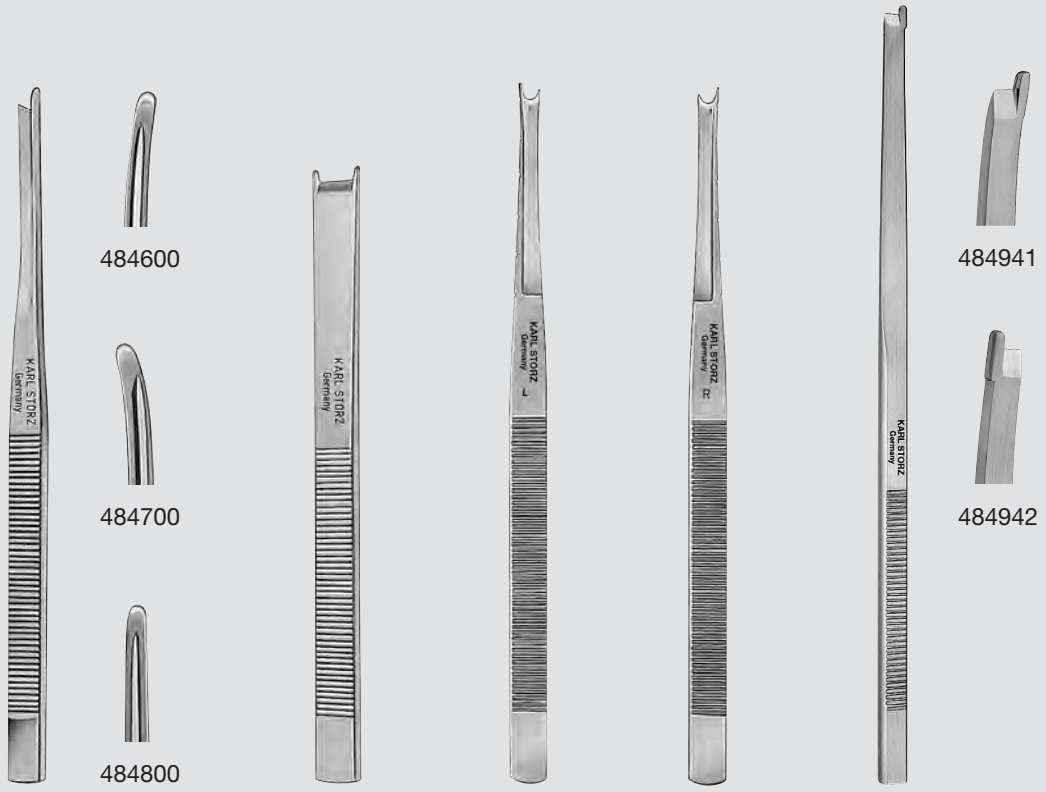
484404
484406

489017

489018

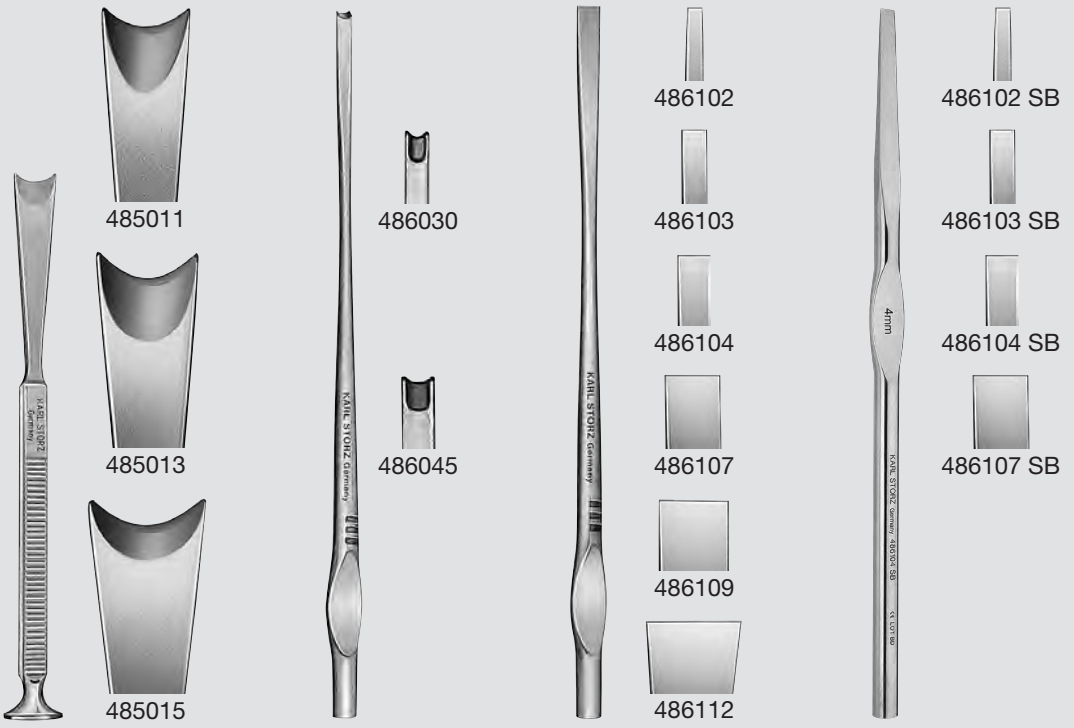
484304	COTTLE **Crossbar Chisel,** graduated, single-edged grinding, straight, width 4 mm, length 18.5 cm
484306	**Same,** width 6 mm
484404	COTTLE **Crossbar Chisel,** graduated, single-edged grinding, curved, width 4 mm, length 18.5 cm
484406	**Same,** width 6 mm
489017	COTTLE **Crossbar Osteotome,** graduated, double-edged grinding, with guard, width 5 mm, length 18.5 cm
489018	COTTLE **Crossbar Osteotome,** graduated, double-edged grinding, double-guarded, width of cut 10 mm, length 18.5 cm
489019	**Same,** width of cut 12 mm
489020	**Same,** width of cut 14 mm
489021	**Same,** width of cut 16 mm

3-99$_2$



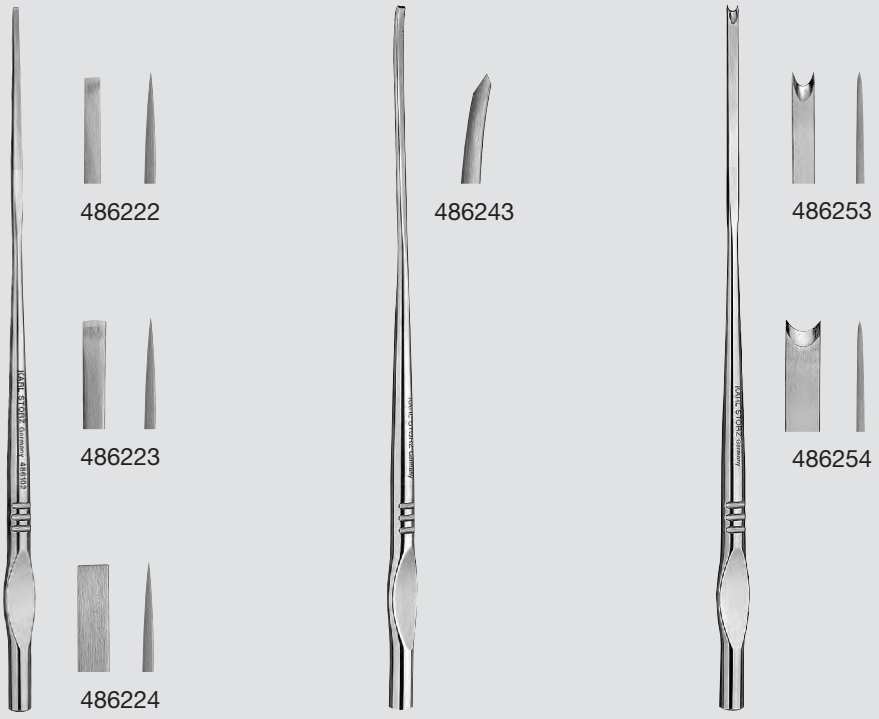
484600	MASING **Chisel,** slightly curved, with rounded guard right side, length 18 cm
484700	**Same,** on left
484800	**Same,** straight
484900	MASING **Chisel,** straight, double-guarded, width of cut 10 mm, length 16 cm
484930	GUASTELLA-EY **Osteotome,** for lateral osteotomy, with medial rounded guard to protect tissue, concave polishing to prevent slipping, graduated, slightly curved, lateral guard left, length 18 cm
484932	**Same,** guard right
484940	**Osteotome,** with small guard, straight, length 20 cm
484941	**Same,** right
484942	**Same,** left

11-03



485011	McINDOE **Chisel,** hollow, width 11 mm, length 14.5 cm
485013	**Same,** width 13 mm
485015	**Same,** width 15 mm
486030	WALTER **Gouge,** hollow, width 3 mm, length 19 cm
486045	**Same,** width 4.5 mm
486102	WALTER **Osteotome,** flat, double-edged grinding, width 2 mm, length 19 cm
486103	**Same,** width 3 mm
486104	**Same,** width 4 mm
486107	**Same,** width 7 mm
486109	**Same,** width 9 mm
486112	**Same,** width 12 mm
486102 SB	**Osteotome,** flat, double-edged grinding, with enlarged distal finger grip plate, width 2 mm, length 19 cm
486103 SB	**Same,** width 3 mm
486104 SB	**Same,** width 4 mm
486107 SB	**Same,** width 7 mm

11-03



486222	BEHRBOHM-WALTER **Micro Osteotome,** extra delicate, long flat blade, double-edged grinding, with round ergonomic handle and finger grip plate, width 2 mm, length 19 cm
486223	**Same,** width 3 mm
486224	**Same,** width 4 mm
486243	BEHRBOHM-WALTER **Micro Osteotome,** curved, extra delicate, with special double cut, with round ergonomic handle and finger grip plate, width 3 mm, length 19 cm
486253	BEHRBOHM-WALTER **Double Concave Hollow Osteotome,** extra delicate, with special double-edged grinding, double-guarded, with round ergonomic handle and finger grip plate, width 3 mm, length 19 cm
486254	**Same,** width 4.5 mm

11-03$_2$



492900



493000



494500



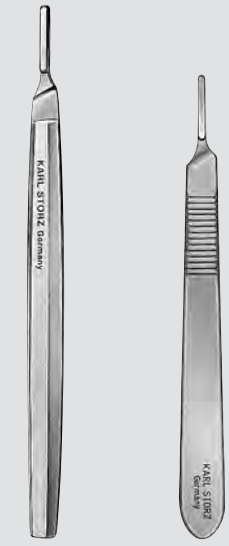
496800
496801



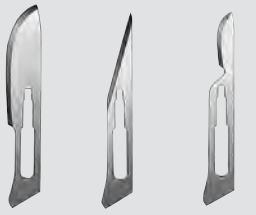
496900

492900	FREER **Nasal Knife,** rounded edge, length 16.5 cm
493000	COTTLE **Nasal Knife,** rounded edge, length 14 cm
494500	JOSEPH **Knife,** curved, backward cutting, double beveled, length 15 cm
496800	**Nasal Knife,** curved, roundly tipped blade, width 4.5 mm, length 13.5 cm
496801	**Same,** straight
496900	MASING **Nasal Knife,** curved, roundly tipped blade, length 14 cm

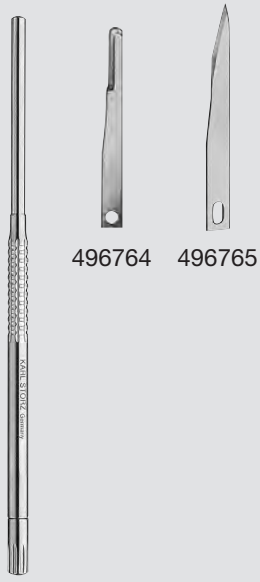
3-99$_3$



496400 208000



208210 208211 208215

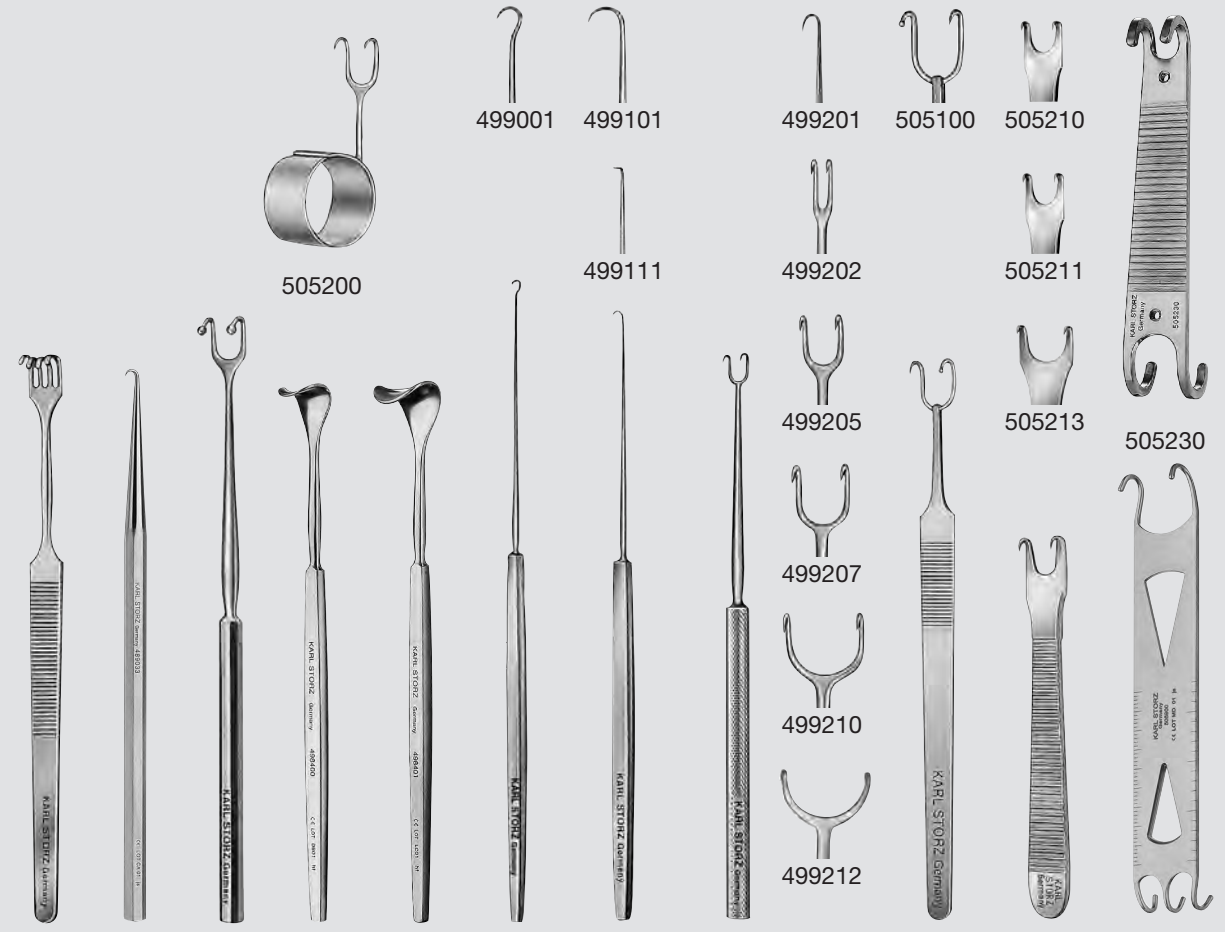


496550

496764 496765

	496400	MASING **Surgical Handle,** length 14 cm, for Blades 208010 – 15, 208210 – 15
	208000	**Surgical Handle,** Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
	208210	**Blade,** Fig. 10, sterile, package of 100
	208211	**Same,** Fig. 11
	208215	**Same,** Fig. 15
NEW	496550	**Surgical Handle,** for miniature blades, round, length 16.5 cm, for Blades 496764 – 65
	496764	**Miniature Blade,** Fig. 64, round, sterile, package of 25
	496765	**Same,** Fig. 65, pointed

3-99$_3$



489028	COTTLE **Retractor,** with 4 prongs, blunt, length 15 cm
489033	**Hook,** single, robust version, curved 180°, length 14 cm
498000	JOSEPH **Retractor,** length 15.5 cm
498400	COTTLE **Retractor,** narrow (standard model), length 14 cm
498401	COTTLE **Retractor,** wide, length 14 cm
499001	KILNER-GILLIES **Hook,** one prong, small curve, length 17 cm
499101	**Hook,** one prong, large curve, length 16.5 cm
499111	**Hook,** one prong, angled 90°, length 16.5 cm
499201	JOSEPH **Hook,** one prong, sharp, large curve, length 15 cm
499202	JOSEPH **Double Hook,** sharp, width 2 mm, length 15 cm
499205	**Same,** width 5 mm
499207	**Same,** width 7 mm
499210	**Same,** width 10 mm
499212	**Same,** small curve, width 12 mm
505000	COTTLE **Retractor,** two prongs, sharp prong on left, blunt prong on right, width 10 mm, length 14.5 cm
505100	**Same,** sharp prong on right, blunt prong on left
505200	COTTLE **Retractor,** two prongs, sharp, with thimble, width 10 mm, length 5.5 cm
505210	KILNER **Ala Retractor,** two prongs, sharp, width 10 mm, length 8.5 cm
505211	**Same,** blunt
505213	KILNER **Ala Retractor,** two prongs, sharp, width 13 mm, length 8.5 cm
505230	HARALDSSON **Double Hook,** two prongs, blunt, width 10 and 14 mm, length 8 cm
505900	FULEIHAN **Double Retractor,** two and three prongs, blunt, with special cut-outs for cartilage treatment and scales, length 10 cm

3-99$_3$



505600 505610 505700 505800 505806 506000 506010 506020



506400 506496

505600	SENN **Retractor,** double-ended, blunt, length 15 cm
505610	SENN-MÜLLER **Retractor,** double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm
505700	COTTLE **Knife Guide and Retractor,** one side with two-pronged nostril retractor, other side with flat retractor, with duct for guide of cut, length 19 cm
505800	NEIVERT **Knife Guide and Retractor,** made of wire, one side with nostril retractor, other side with flat retractor, length 18 cm
505806	RETTINGER-NEIVERT **Knife Guide and Retractor,** made of wire, one side with nostril retractor, width 17 mm, other side with flat retractor, with duct for guide of cut, length 18 cm
506000	WALTER **Nasal Retractor,** double-ended, one side with retractor, width of retractor blade 12 mm, length of retractor blade 45 mm, other side with two pronged retractor for nasal wings, length 12.5 cm
506010	FULEIHAN **Nasal Retractor,** blade oval fenestrated, width of retractor blade 12 mm, length of retractor blade 53 mm, length 10 cm
506020	RETTINGER **Nasal Retractor,** width of retractor blade 11.5 mm, length of retractor blade 45 mm, with flat handle, length 10 cm
506400	AUFRICHT **Nasal Retractor,** width of retractor blade 8 mm, length of retractor blade 40 mm, length 16.5 cm
506496	**Same,** with fiber optic light carrier

Components/Spare Parts see chapter 16

3-99$_3$

“The Diamond Standard®” Scissors

Special Features:

- **Scissors with ultimate cutting quality**
- **Very fine-toothed upper blade prevents slipping of cut material**
- **Razor-sharp lower blade ensures easy and efficient cutting**
- **Color code: one gold-plated handle ring**
- **Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring**

Scissors with titanium nitride coating

Special Features:

- **Enhanced gliding properties**
- **Increased tool life**
- **More durable surface**
- **Color code: copper**
- **Some models are available with tungsten carbide inserts**



449002 DS | 511010 DS, 511010 DST | 511414 DS, 511414 DST | 511514 DS, 511514 DST | 511812 DST

449002 DS — HEYMANN **Nasal Scissors,** medium (standard model), working length 9.5 cm, color code: one gold-plated handle ring

511010 DS — **Scissors,** extra delicate, straight, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring

511010 DST — **Same,** with titanium nitride coating, color code: copper

511210 DS — **Scissors,** extra delicate, curved, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring

511210 DST — **Same,** with titanium nitride coating, color code: copper

511414 DS — JOSEPH **Scissors,** curved, length 14 cm, color code: one gold-plated handle ring

511414 DST — **Same,** with titanium nitride coating, color code: copper

511514 DS — METZENBAUM **Scissors,** curved, length 14.5 cm, color code: one gold-plated handle ring

511514 DST — **Same,** with titanium nitride coating, color code: copper

511812 DST — KILNER **Scissors,** with tungsten carbide inserts, curved, flat end, with titanium nitride coating, length 12.5 cm, color code: copper

3-99₂



512310 DS | 512511 DS | 512614 DS – 512718 DS | 513200 DS 513200 DST | 513410 DS 513410 DST | 513512 DS | 513700 DS

512310 DS **Scissors,** with tungsten carbide inserts, straight, sharp/sharp, length 11.5 cm, color code: one black handle ring, one gold-plated handle ring

512311 DS **Same,** curved

512311 DST **Same,** curved, with titanium nitride coating, color code: copper

512511 DS **Scissors,** with tungsten carbide inserts, curved, blunt/blunt, extra fine, length 11 cm, color code: one black handle ring, one gold-plated handle ring

512614 DS METZENBAUM **Scissors,** with tungsten carbide inserts, curved, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring

512614 DST **Same,** with titanium nitride coating, color code: copper

512618 DS METZENBAUM **Scissors,** with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring

512618 DST **Same,** with titanium nitride coating, color code: copper

512718 DS METZENBAUM **Scissors,** robust, with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring

513200 DS WALTER **Angular Scissors,** length 10 cm, color code: one gold-plated handle ring

513200 DST **Same,** with titanium nitride coating, color code: copper

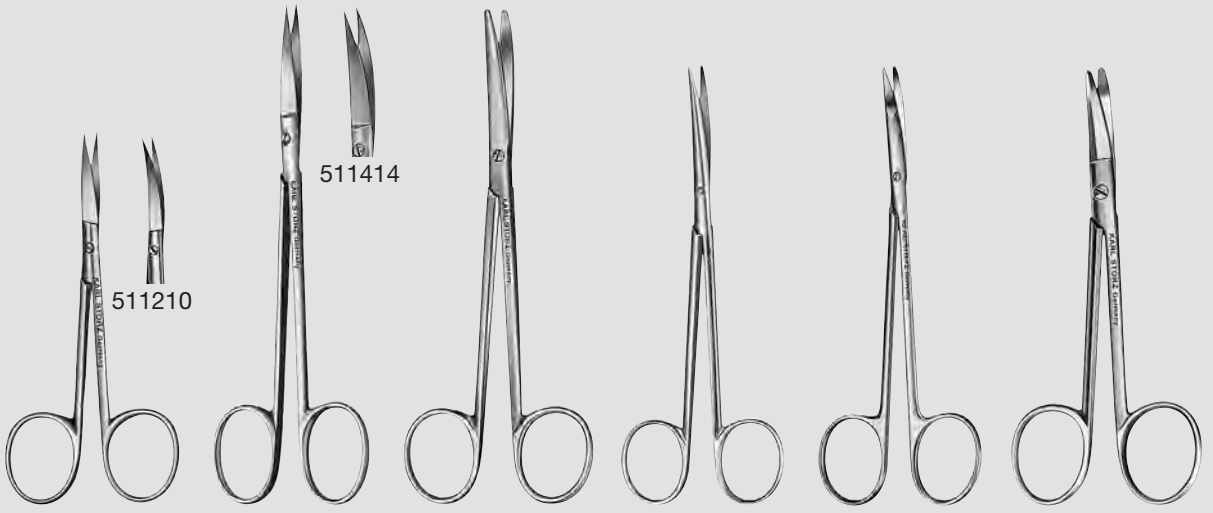
513410 DS COTTLE **Scissors,** curved, length 10.5 cm, color code: one gold-plated handle ring

513410 DST **Same,** with titanium nitride coating, color code: copper

513512 DS **Scissors,** sharp/sharp, length 12 cm, color code: one gold-plated handle ring

513700 DS FOMON **Scissors,** curved surface, slender, working length 6.5 cm, color code: one gold-plated handle ring

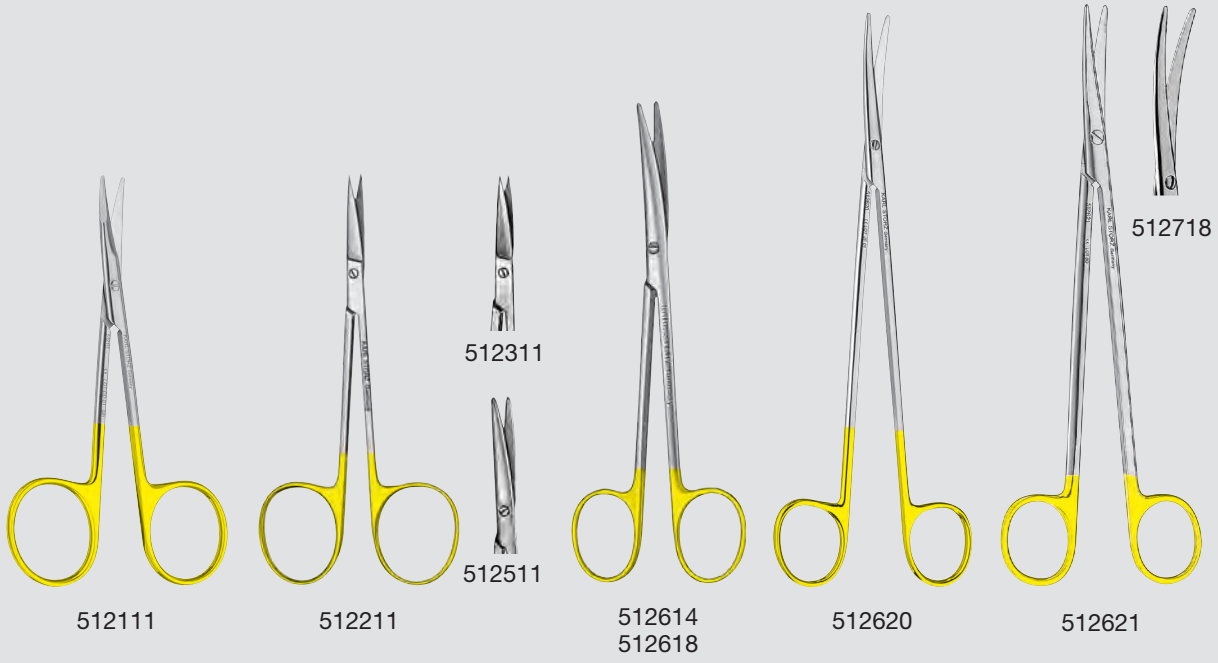
3-993



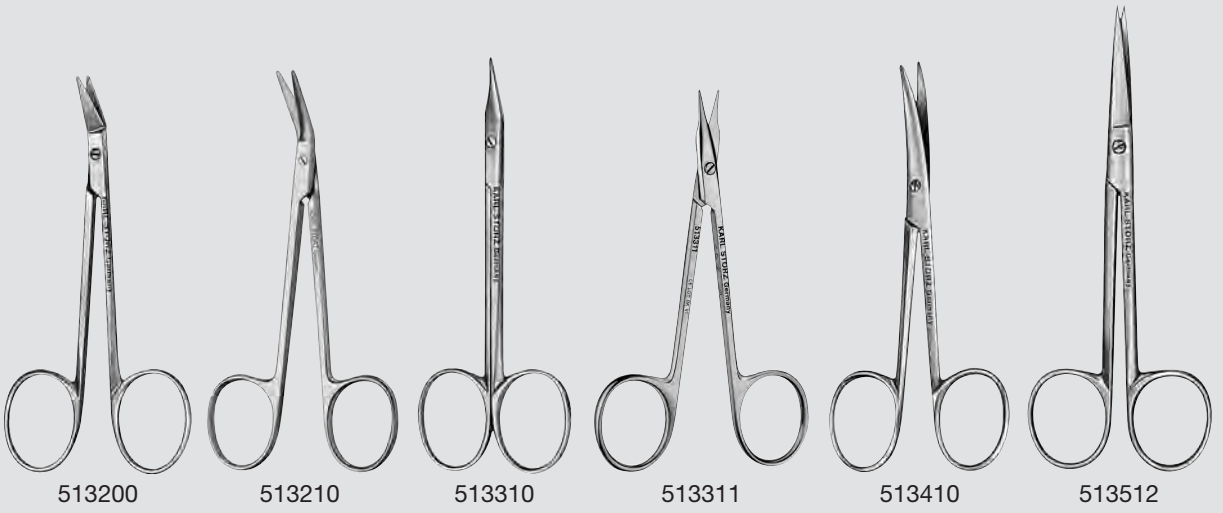
511010 | 511314 | 511514 752918 | 511612 511615 | 511812 – 511814 | 512012

511010	**Scissors,** extra delicate, straight, length 10 cm
511210	**Same,** curved
511314	JOSEPH **Scissors,** straight, length 14 cm
511414	**Same,** curved
511514	METZENBAUM **Scissors,** curved, length 14 cm
752918	**Same,** length 18 cm
511612	METZENBAUM-LAHEY **Scissors,** curved, extra slender, length 12 cm
511615	**Same,** length 15 cm
511812	KILNER **Scissors,** curved, flat end, length 12.5 cm
511814	**Same,** length 14 cm
512012	FOMON **Scissors,** curved, length 12 cm

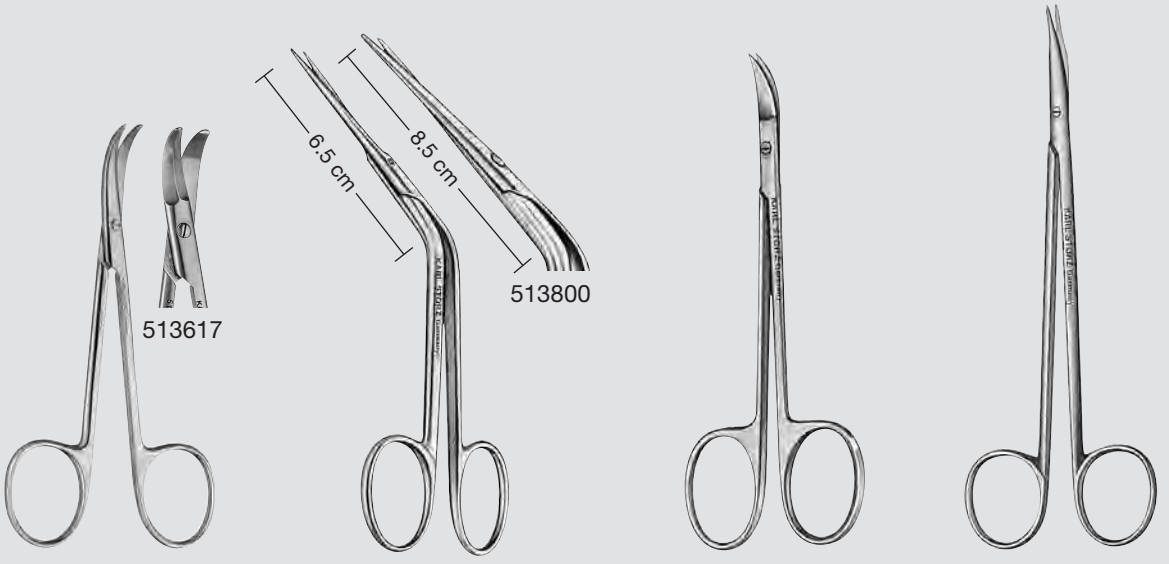
3-994



512111	**Scissors,** with tungsten carbide inserts, blunt/blunt, curved, double-edged grinding, semisharp outer edge for dissection, length 11.5 cm
512211	**Scissors,** with tungsten carbide inserts, straight, sharp/sharp, length 11 cm
512311	**Same,** curved
512511	**Same,** blunt/blunt, curved
512614	METZENBAUM **Scissors,** with tungsten carbide inserts, curved, length 14 cm
512618	**Same,** length 18 cm
512620	METZENBAUM **Scissors,** delicate, with tungsten carbide inserts, curved, length 20 cm
512621	**Same,** robust model
512718	METZENBAUM **Scissors,** with tungsten carbide inserts, curved, robust model, length 18 cm



513200 513210 513310 513311 513410 513512



513617 513800

513612
513617

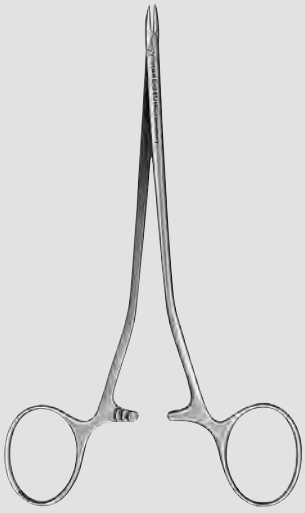
513700

514012

791813
791815

513200	WALTER **Scissors,** angled, length 10 cm
513210	**Scissors,** angled, blunt, length 10 cm
513310	STEVENS **Scissors,** curved, length 10.5 cm
513311	**Same,** straight
513410	COTTLE **Scissors,** curved, length 10.5 cm
513512	**Scissors,** straight, length 12 cm
513612	FOMON **Lower Lateral Scissors,** strongly curved, length 12 cm
513617	**Same,** length 17 cm
513700	FOMON **Dorsal Scissors,** angular, serrated blades, slender, working length 6.5 cm
513800	COTTLE **Dorsal Scissors,** angular, serrated blades, robust, working length 8.5 cm
514012	CHADWICK **Scissors,** curved, length 12.5 cm
791813	REYNOLDS **Scissors,** curved, delicate tips, length 13 cm
791815	**Same,** length 15 cm

3-99$_3$



515017



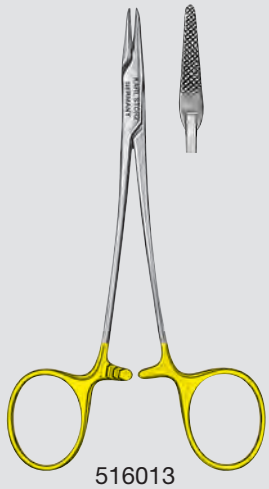
515217



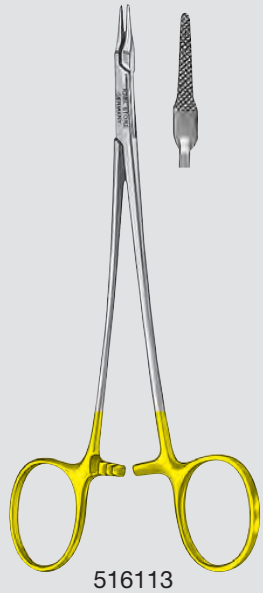
515515



516012

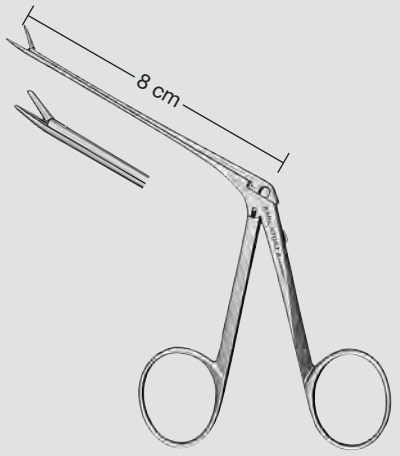


516013
516015



516113
516117

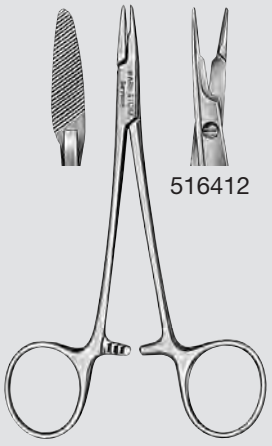
515017	**Needle Holder,** extra delicate, slight spring action, length 17 cm
515217	**Needle Holder,** intranasal, angled 30°, tungsten carbide inserts, length 17 cm
515515	CRILE-WOOD **Needle Holder,** length 15 cm
516012	HALSEY **Needle Holder,** tungsten carbide inserts, length 12 cm
516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
516015	**Same,** length 15 cm
516113	RYDER **Needle Holder,** tungsten carbide inserts, extra delicate, length 13 cm
516115	**Same,** length 15 cm
516117	**Same,** length 17 cm



517000



517200



516412

516513



517500



799016

516412 OLSEN-HEGAR **Needle Holder and Scissors,** tungsten carbide inserts, delicate, length 12 cm

516513 NEIVERT-MASING **Needle Holder,** thumb ring upturned, one jaw with groove, length 13 cm

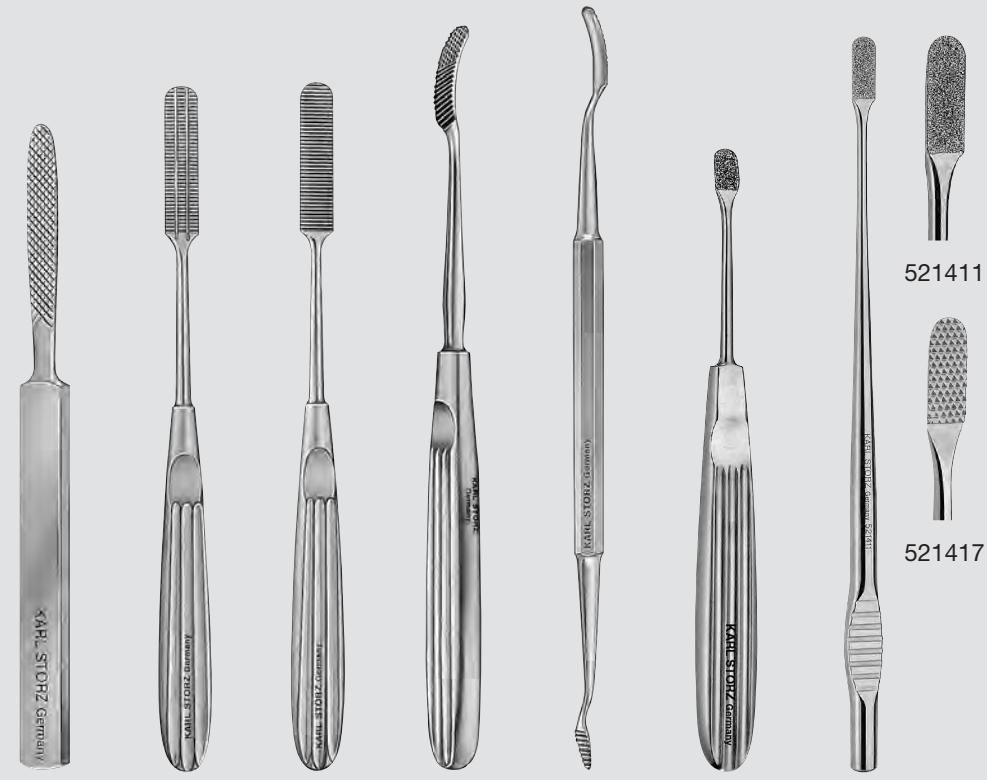
517000 MASING **Needle Holder,** ear forceps shape, intranasal, smooth jaws, working length 8 cm

517200 **Needle Holder,** intranasal, handle angled 30°, tungsten carbide inserts, working length 12.5 cm

517500 **Wire Twister Ligature Forceps,** with tungsten carbide inserts, length 15 cm

799016 DRAF **Micro Needle Holder,** extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

3-99$_3$



521000	JOSEPH **Nasal Rasp,** length 17 cm
521400	MALTZ **Nasal Rasp,** coarse teeth, cuts with traction, with two grooves, length 18.5 cm
521401	**Same,** without grooves
521600	AUFRICHT **Glabella Rasp,** curved, cuts with pressure and traction, length 20 cm
521800	**Glabella Rasp,** double-ended, cuts with traction, length 20.5 cm
521410	RAUNIG **Rasp,** diamond coated, rasp blade 6 x 10 mm, length 16.5 cm
521411	BEHRBOHM **Rasp,** diamond coated, rasp blade 6 x 15 mm, length 18 cm
521417	BEHRBOHM **Rasp,** crosscut, cuts with traction, rasp blade 6 x 15 mm, length 18 cm

3-99



	523000	JOSEPH **Nasal Saw,** crosswise toothed, bayonet-shaped, right, length 18.5 cm
	523100	**Same,** left
	523600	**Nasal Rasp,** double-ended, fine, length 21.5 cm
	523700	**Same,** coarse (rasp)
NEW	523800	RAUNIG **Nasal Rasp,** double-ended, with diamond coating, length 21.5 cm
	523812	**Nasal Rasp,** tungsten carbide, double-ended, rasp blades Fig. 1 and 2, coarse, length 20.5 cm
	523834	**Same,** rasp blades Fig. 3 and 4, coarse and medium
	523856	**Same,** rasp blades Fig. 5 and 6, medium
	523878	**Same,** rasp blades Fig. 7 and 8, medium and fine
	523891	**Same,** rasp blades Fig. 9 and 10, fine

3-99



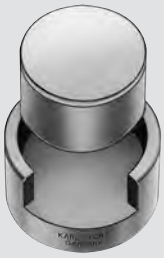
523900



523905



523913



523910
523920



524110 – 524310



524302

	523900	COTTLE **Bone Crusher,** with clip, crusher size 5 x 1.5 cm
NEW	523905	**Bone Crusher,** large model, with clip, crusher size 5 x 3 cm
	523910	TOLSDORFF **Bone and Cartilage Crusher,** round, to press pieces of bone up to 4 cm diameter evenly extended in all directions
	523920	RETTINGER-TOLSDORFF **Same,** with coarse surface
	523913	**Metal Tray,** for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
	524110	**Nasal Splint,** DENVER model, aluminium, padded, with self-adhesive underside, small, size 56 x 30 mm, package of 10
	524210	**Same,** medium, size 64 x 36 mm
	524310	**Same,** large, size 66 x 45 mm
	524302	**Nasal Splint**, aluminium, padded, with self-adhesive underside, large, with forehead extension, size 83 x 77 mm, package of 5

Components/Spare Parts see chapter 16

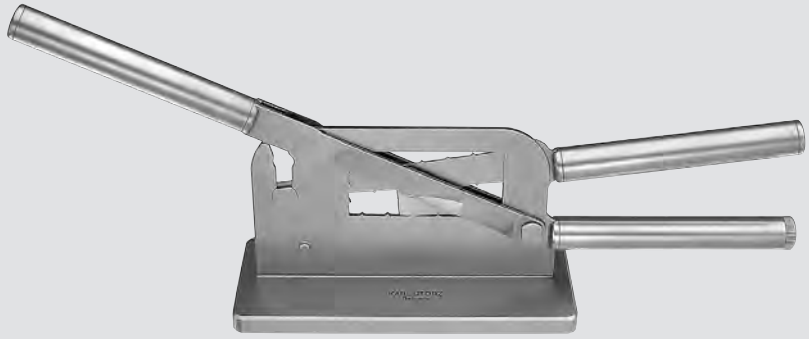
11-98$_3$

SCHMÄL **CARTCUT®** Cartilage Cutter NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **For reconstructive rhinoplasty with costal cartilage implantation**
- **Lowers the surgeon's risk of injury while harvesting the core of the cartilage**
- **Even cutting of cartilage implants at 1 or 2 mm thickness**
- **Maximum time-savings due to easy preparation of the costal cartilage**



523950

523950	SCHMÄL **CARTCUT® Cartilage Cutter,** for preparation of cartilage pieces including: **Holding Device** **Cleaning Adaptor** **Holding-down Clamp** **Knife,** 1 mm **Knife,** 2 mm



Fig. 1: *The harvested costal cartilage is placed in the CARTCUT® cartilage cutter ...*



Fig. 2: *... and fixated with the "holding-down clamp" handle.*



Fig. 3: *The "knife" handle is placed in the appropriate holder ...*





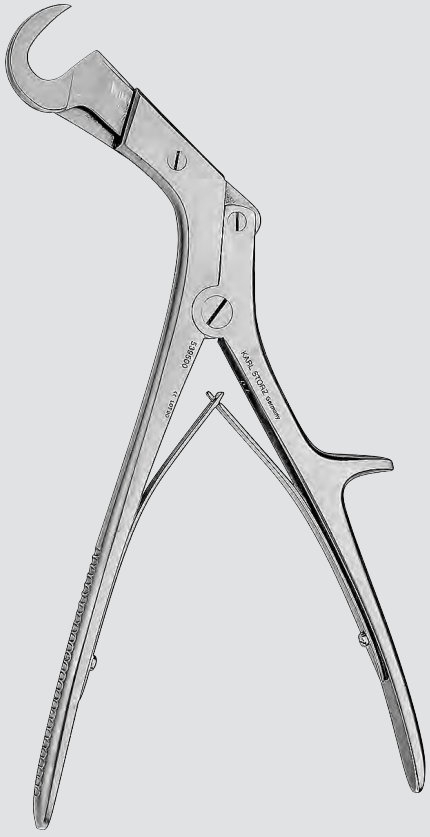
Figs. 4 and 5: *... and the cartilage is carved by pressing down the "knife" handle.*



Fig. 6: *The resulting cartilage.*

8-11

Components/Spare Parts see chapter 16
For optimal storage and processing Tray 39502 ZH and Silicon Mat 39100 SH are recommended.
Further accessories for cleaning and sterilization see catalog HYGIENE



539500



539510



539520



539521

539500	GIERTZ-STILLE **Rib Shears,** length 25 cm
539510	FERGUSON **Bone Holding Forceps,** width 12 mm, length 20.5 cm
539520	DOYEN **Raspatory,** for adults, curved to right, length 16.5 cm
539521	**Same,** curved to left



525500
525505



525510



525520



525800

525500 525505	**Rule,** stainless steel, flexible, length 20 cm **Same,** length 30 cm
525510	CASTROVIEJO **Skin Measurement Caliper,** measurement range 0 – 15 mm, length 8 cm
525520	BEHRBOHM **Caliper,** for plastic surgery, otoplasty, rhinoplasty, reconstructive and aesthetic surgery, with wheel to set and hold the span, as well as a scale for reading the opening interval, measurement range from 5 – 130 mm, caliper arms have 2 removable attachments with atraumatic measurement points 525523 and 1 holder 525525 for disposable skin marker, **autoclavable,** length 18.5 cm
525800	**Elevator,** robust model, for the repositioning of nasal fractures, length 17 cm

11-99$_4$



528800



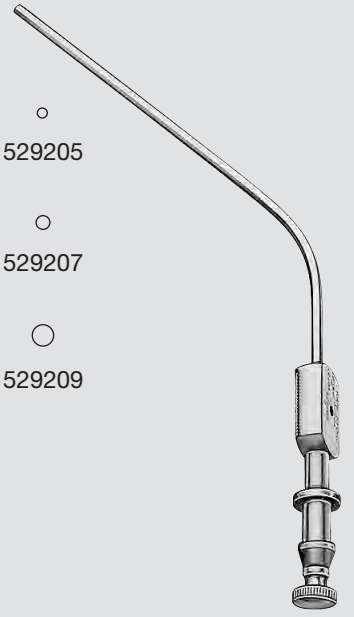
528860

528800	WALSHAM **Septum Straightening Forceps,** dismantling, length 21 cm
528860	ASCH **Septum Straightening Forceps,** angular, length 22 cm

11-99₂



529105



○ 529205

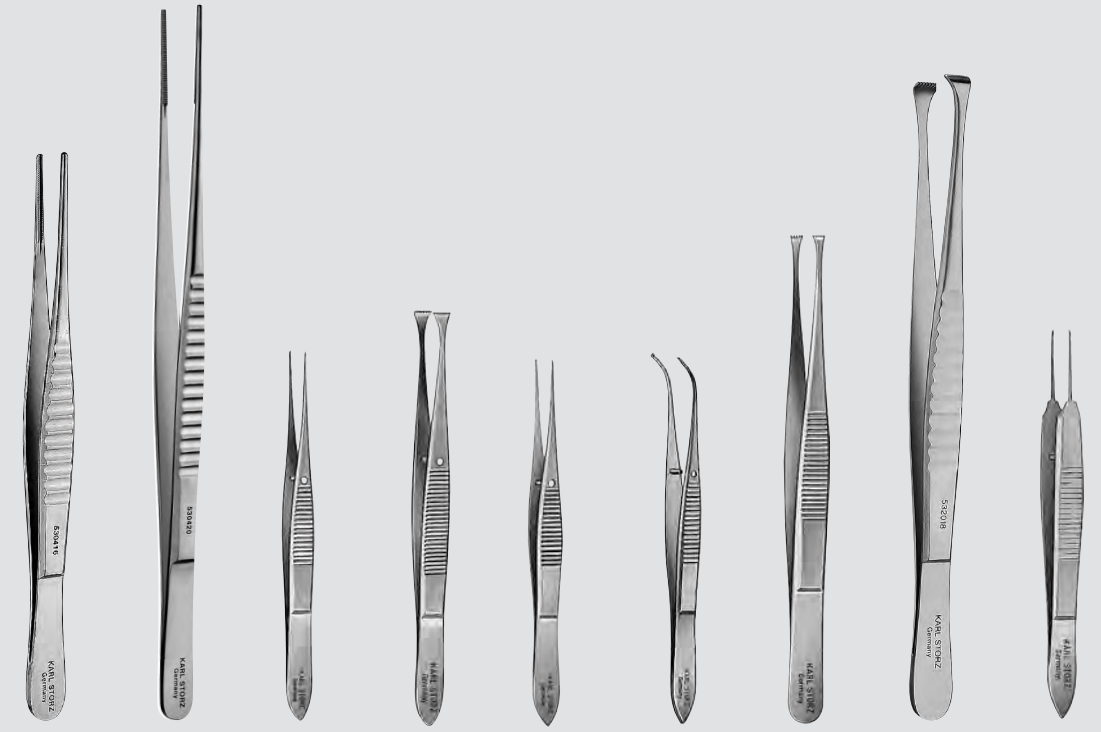
○ 529207

◯ 529209

529205 – 529209

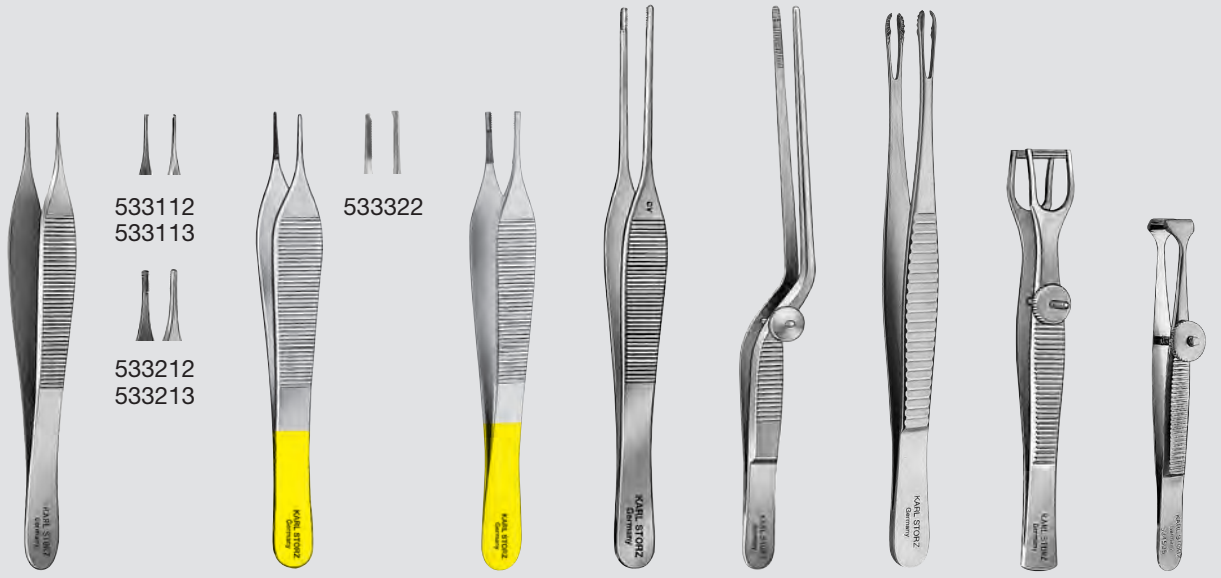
529105	**Suction Tube,** curved, outer diameter 5 mm, length 16.5 cm
529205	FRAZIER **Suction Tube,** with cut-off hole and stylet, angled, outer diameter 5 Fr./1.5 mm, working length 10 cm, total length 17.5 cm
529207	**Same,** outer diameter 7 Fr./2 mm
529209	**Same,** outer diameter 9 Fr./3 mm

3-99$_2$



530416 530420 530520 530710 530811 530910 530911 532013 532018 532500

	530416	"ATRAUMA" **Atraumatic Tissue Forceps,** length 16 cm
	530420	"ATRAUMA" **Atraumatic Tissue Forceps,** width of jaws 2 mm, length 20 cm
	530520	**Same,** width of jaws 1.5 mm
	530710	**Dressing Forceps,** delicate, length 10 cm
	530811	**Tissue Forceps,** with 7 x 8 fine teeth, length 11 cm
	530910	**Tissue Forceps,** delicate, straight, 1 x 2 teeth, length 10 cm
	530911	**Same,** curved
	532013	**Tissue Forceps,** straight, with 7 x 8 fine teeth, length 13 cm
NEW	532018	STÖVER **Tissue Forceps,** straight, with 7 x 8 fine teeth, length 18 cm
	532500	CASTROVIEJO **Suture Forceps,** 1 x 2 teeth, length 10.5 cm



533012	ADSON **Dressing Forceps,** serrated, length 12 cm
533013	**Same,** micro-model
533022	ADSON **Dressing Forceps,** serrated, tungsten carbide inserts, length 12 cm
533112	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm
533113	**Same,** micro-model
533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
533213	**Same,** micro-model
533214	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm
533215	GLANZ **Forceps,** atraumatic, fine side grasping teeth, with extra long tips for better view and work in the depth, length 15 cm
533322	ADSON **Tissue Forceps,** serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm
534015	COTTLE **Lower Lateral Forceps,** bayonet-shaped, with set screw, serrated tips and teeth on the inside, length 15 cm
534315	FULEIHAN **Forceps,** with teeth and open window, width 5 mm, length 15 cm
534500	COTTLE **Columella Clamp,** length 11 cm
534505	**Columella Clamp,** for children, width 7.5 mm, length 8.5 cm

3-993

BERGHAUS **Recommended Set**



488002



488003



488004



488105





488010



488012



488014



488018





488022



488023



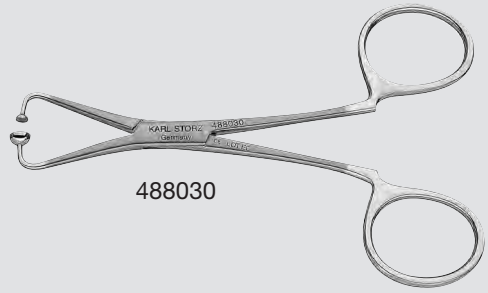
488024



174200



231000

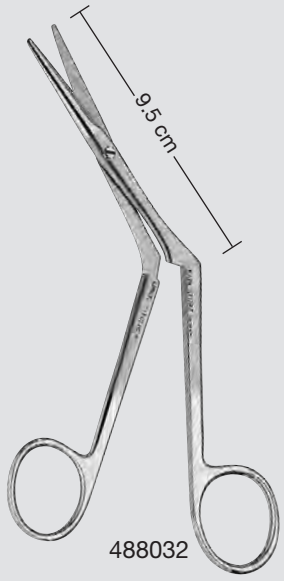


488030

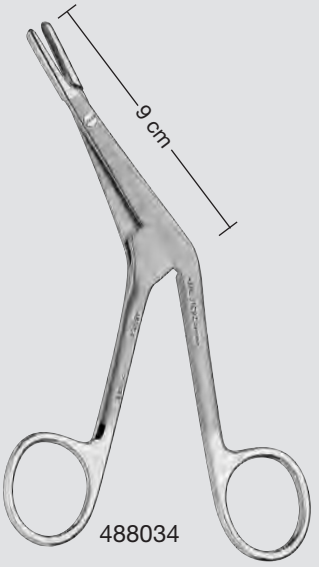
488002	COTTLE **Nasal Speculum,** extra slender, without set screw, blade length 35 mm, length 13 cm
488003	**Same,** blade length 55 mm
488004	**Same,** blade length 75 mm
488105	HALLE-TIECK **Nasal Speculum,** for infants, length 13 cm
488010	RUBIN **Osteotome,** flat, straight, double-edged grinding, rounded corners, with finger grip for controlled osteotome guidance, width 10 mm, length 16.5 cm
488012	**Same,** width 12 mm
488014	**Same,** width 14 mm
488018	KILLIAN-CLAUS **Septum Chisel,** with V-shaped cutting edge, width 5 mm, length 16.5 cm
488022	**Chisel,** with finger button, flat, width 2 mm, length 18 cm
488023	**Same,** width 3 mm
488024	**Same,** width 4 mm
174200	COTTLE **Metal Mallet,** length 18 cm
231000	**Hone,** “ARKANSAS” oil stone, wedge-shaped, 10 x 4 cm
488030	**Marking Instrument,** for nasal tip, with ball and half cup, straight, length 11 cm

3-99$_2$

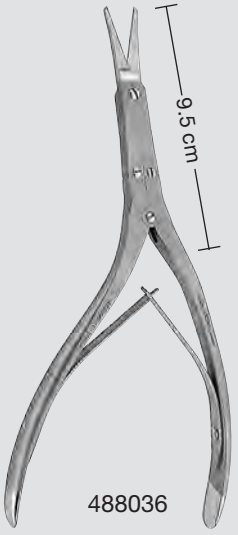
BERGHAUS **Recommended Set**
Instruments with special matt finish and high-gloss polished working tips



488032



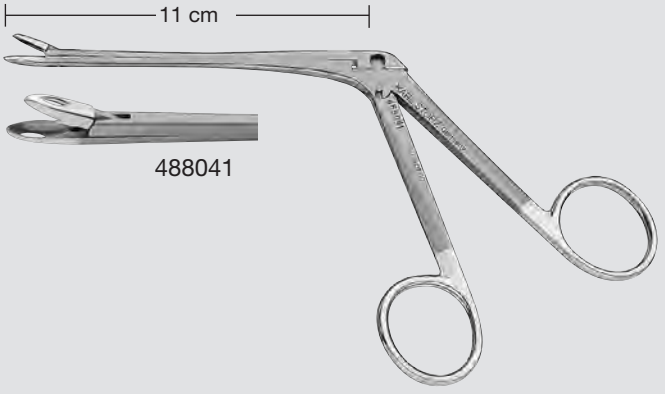
488034



488036



488038



488041



488044



488045
488047



488046

488049



488050

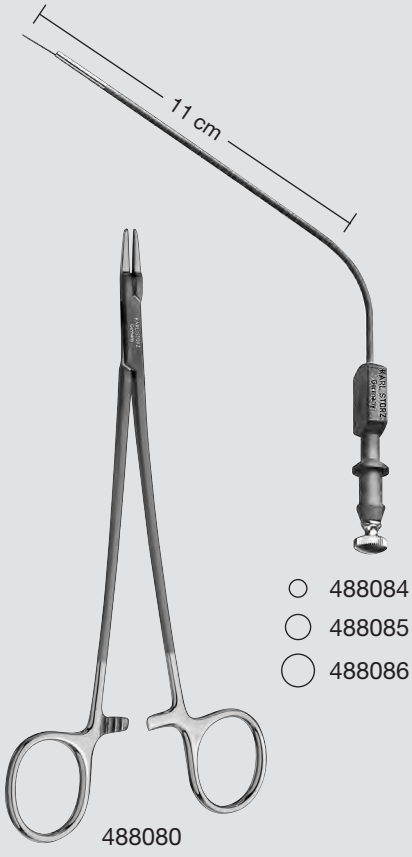
488032	HEYMANN **Nasal Scissors,** medium size, working length 9.5 cm
488034	CRAIG **Septum Forceps,** straight, working length 9 cm
488036	BECKER-CAPLAN **Septum Scissors,** with double joint, serrated, slender, working length 9.5 cm
488038	RUBIN **Septum Morcelizer,** with double joint, straight, length 20 cm
488041	BLAKESLEY **Nasal Forceps,** slender, straight, size 1, working length 11 cm
488044	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, slender, length 16 cm
488045	ADSON-BROWN **Forceps,** micro-model, atraumatic, fine side grasping teeth, length 12 cm
488046	ADSON **Tissue Forceps,** atraumatic, fine side grasping teeth, length 15 cm
488047	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm
488049	KILNER **Scissors,** curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, length 13.5 cm
488050	KILNER **Scissors,** curved, flat end, blunt/blunt, length 15.5 cm

3-99$_2$

BERGHAUS **Recommended Set**

Instruments with special matt finish and high-gloss polished working tips

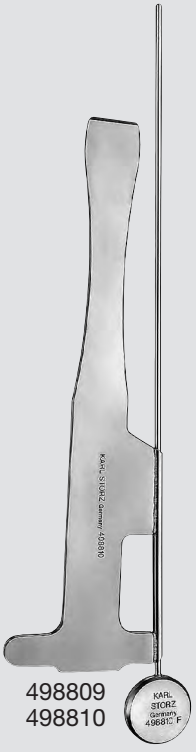




○ 488084
◯ 488085
◯ 488086

488054	AUFRICHT **Nasal Retractor,** with side protector, length 16.5 cm
488056	KILNER **Ala Retractor,** two sharp points with button, width 10 mm, length 8.5 cm
488058	**Same,** width 13 mm
488060	**Ala Double Hook,** with octagonal handle, with 2 sharp points, strongly curved, width 2 mm, length 16.5 cm
488065	BERGHAUS **Ala Guiding Set,** consisting of 2 guiding instruments with distance markings 488065 A and 1 fixation block 488065 B
488070	JOSEPH **Raspatory,** slightly curved, width 4 mm, length 17.5 cm
488071	**Same,** strongly curved, width 3.4 mm
488074	FREER **Elevator,** double-ended, sharp and blunt, length 20 cm
488076	AUFRICHT **Glabella Rasp,** double-ended, backward cutting, length 20.5 cm
488078	**Nasal Rasp,** double-ended, coarse, length 21.5 cm
488080	RYDER **Needle Holder,** tungsten carbide inserts, extra delicate and flat, length 18 cm
488084	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, outer diameter 8 Fr./2.5 mm, working length 11 cm
488085	**Same,** outer diameter 10 Fr./3.5 mm
488086	**Same,** outer diameter 12 Fr./4 mm
488090	**Scalpel Handle,** no. 3, length 12.5 cm

3-99



498809
498810

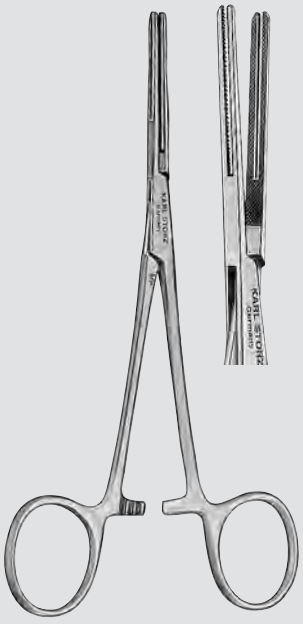
498810 F



498815



498816



498822



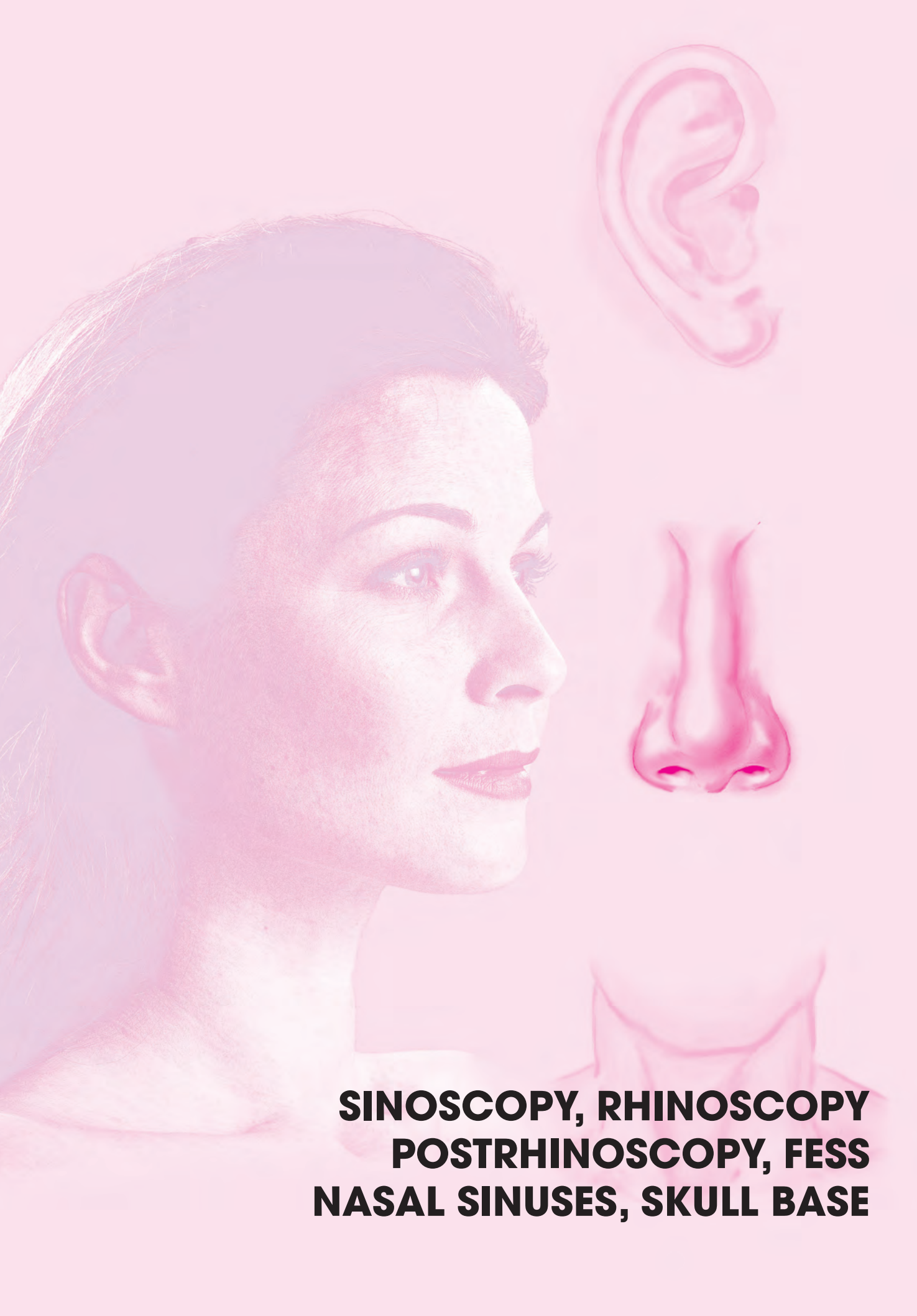
498820



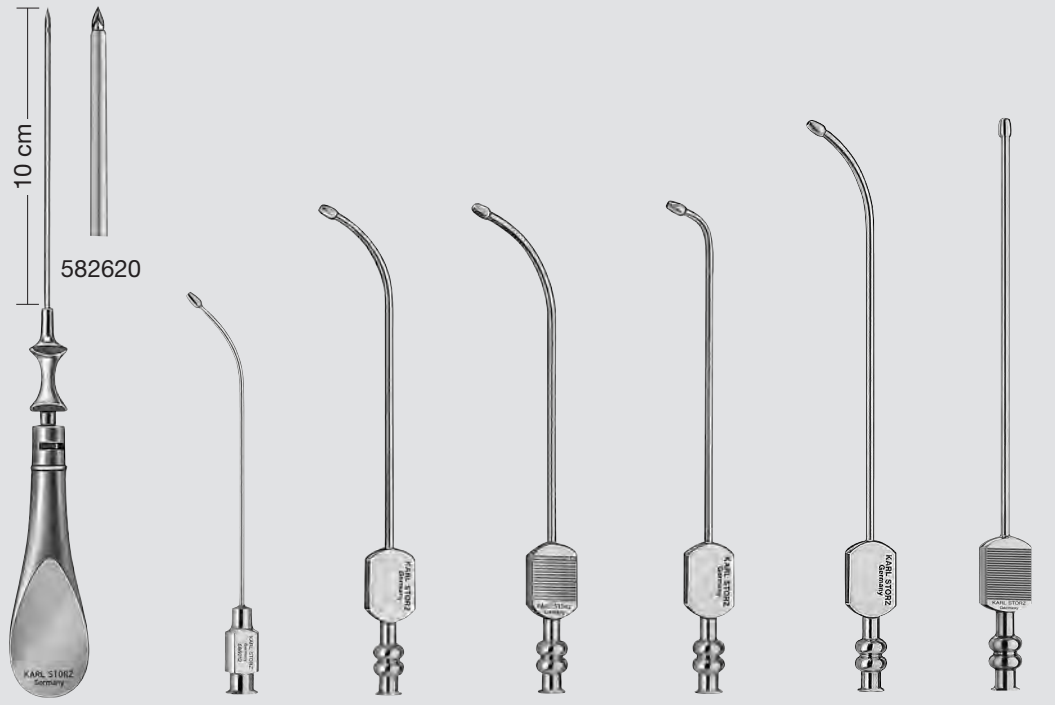
498824

498809	AIACH **Osteotome for Hump Removal,** with lateral guiding rod, width 10 mm
498810	**Same,** width 13 mm
498810 F	**Guide Rod,** for 498809 and 498810, only
498815	AIACH **Narrow Rasp,** double-ended, medium, width 5 and 3 mm, length 20 cm
498816	AIACH **Tenon Mortise Rasp,** double-ended, medium, one side with augmented teeth, other side slotted without teeth, length 20 cm
498820	AIACH **Grid,** for preparation of cartilage, graduated, size 90 x 50 mm
498822	AIACH **Cartilage Graft Forceps,** for grasping and preparation of cartilage, with slotted jaws, length 15 cm
498824	AIACH **Cartilage Crusher,** crusher size 5 x 1.5 cm

9-96$_2$



SINOSCOPY, RHINOSCOPY
POSTRHINOSCOPY, FESS
NASAL SINUSES, SKULL BASE



582620 | 586012 – 586020 | 586025 – 586040 | 586125 586130 | 586225 – 586240 | 586325 – 586340 | 586525

582620 LICHTWITZ **Antrum Trocar,** LUER-Lock, with lateral holes, outer diameter 2 mm, working length 10 cm

586012 **Antrum Cannula,** LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm

586015 **Same,** with olive diameter 2.7 mm, outer diameter 1.5 mm

586020 **Same,** outer diameter 2 mm

586025 v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm

586030 **Same,** outer diameter 3 mm

586040 **Same,** outer diameter 4 mm

586125 v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm

586130 **Same,** outer diameter 3 mm

586225 v. EICKEN **Antrum Cannula,** LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm

586230 **Same,** outer diameter 3 mm

586240 **Same,** outer diameter 4 mm

586325 v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm

586330 **Same,** outer diameter 3 mm

586340 **Same,** outer diameter 4 mm

586525 **Antrum Cannula,** LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm

3-994



600002



600005



600007



600008



600009



600010



600017

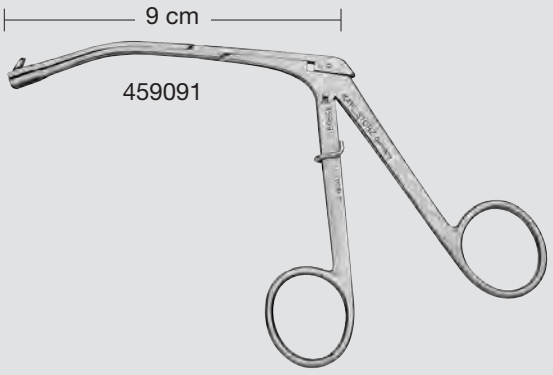


600019

600002	**Irrigation Tube,** silicone, **autoclavable,** both ends with LUER-Lock 600007 and 600008, length 30 cm
600005	**Record Outer Cone**
600007	**LUER-Lock Tube Connector,** male, tube diameter 6 mm
600008	**LUER-Lock Tube Connector,** female, tube diameter 6 mm
600009	**Silicone Irrigation Tube,** only, length 30 cm
600010	**Silicone Tube, autoclavable,** outer diameter 5 mm, 1 m coil
600017	**LUER Cone,** male
600019	**LUER Cone Connector,** male, rotating

8-11

Punches, working length 9 cm





459090 OSTRUM **Pediatric Punch,** for resection of uncinate process, upside backward cutting, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, working length 9 cm



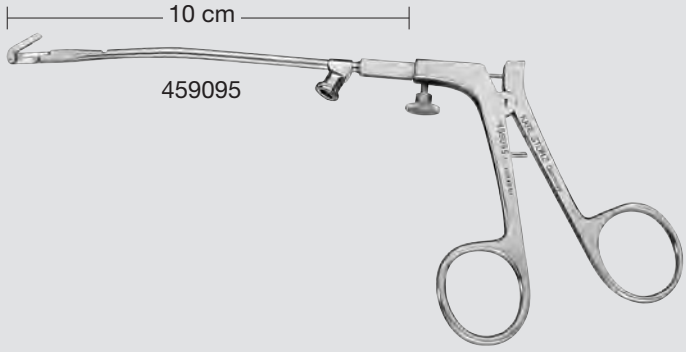
459091 OSTRUM **Pediatric Punch,** for resection of uncinate process, upside backward cutting, sheath slightly curved downwards, large size, bite 3.5 x 4.5 mm, working length 9 cm



459093 OSTRUM **Pediatric Punch,** for resection of uncinate process, upside backward cutting, sheath slightly curved upwards, large size, bite 3.5 x 4.5 mm, working length 9 cm

8-11

Punches and Scissors, working length 9 and 10 cm





459095 LASKAWI **Scissors,** for endonasal decompression of the orbita, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved, with cleaning connector, working length 10 cm



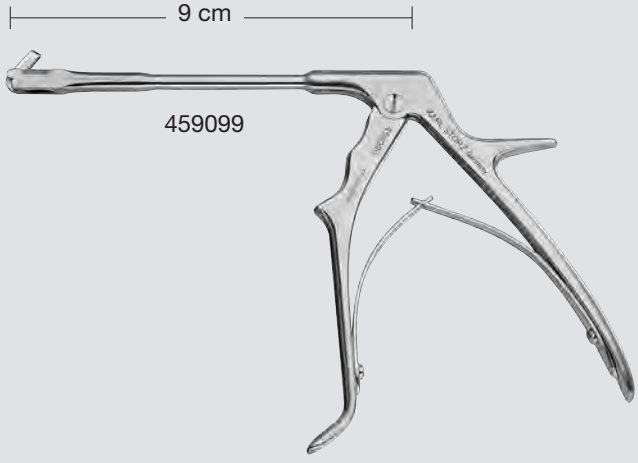
459096 OSTRUM **Antrum Punch,** backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



459096 W OSTRUM-WORMALD **Antrum Punch,** backward cutting, extra slender jaws, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



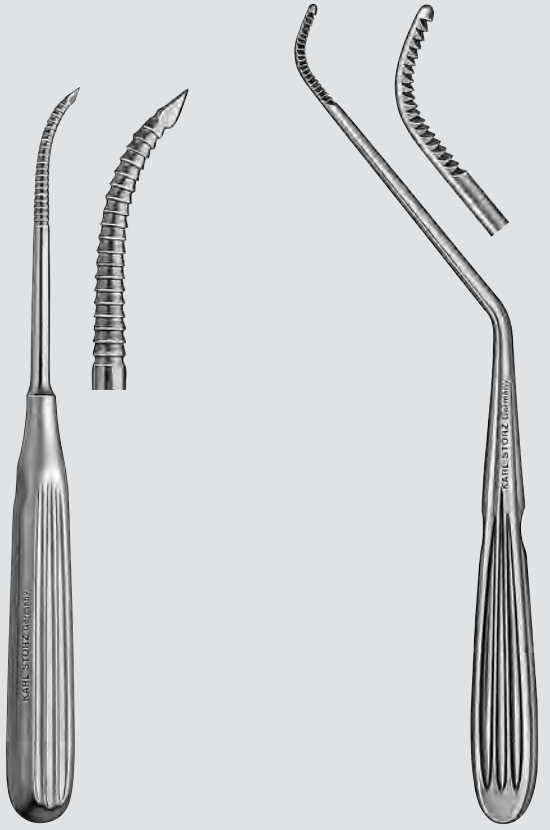
459097 OSTRUM **Punch,** Pediatric, for resection of the uncinate process, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, with cleaning connector, working length 9 cm





459099 OSTRUM **Antrum Punch,** upside backward cutting, strong model, straight, spring-action handle with horn, working length 9 cm

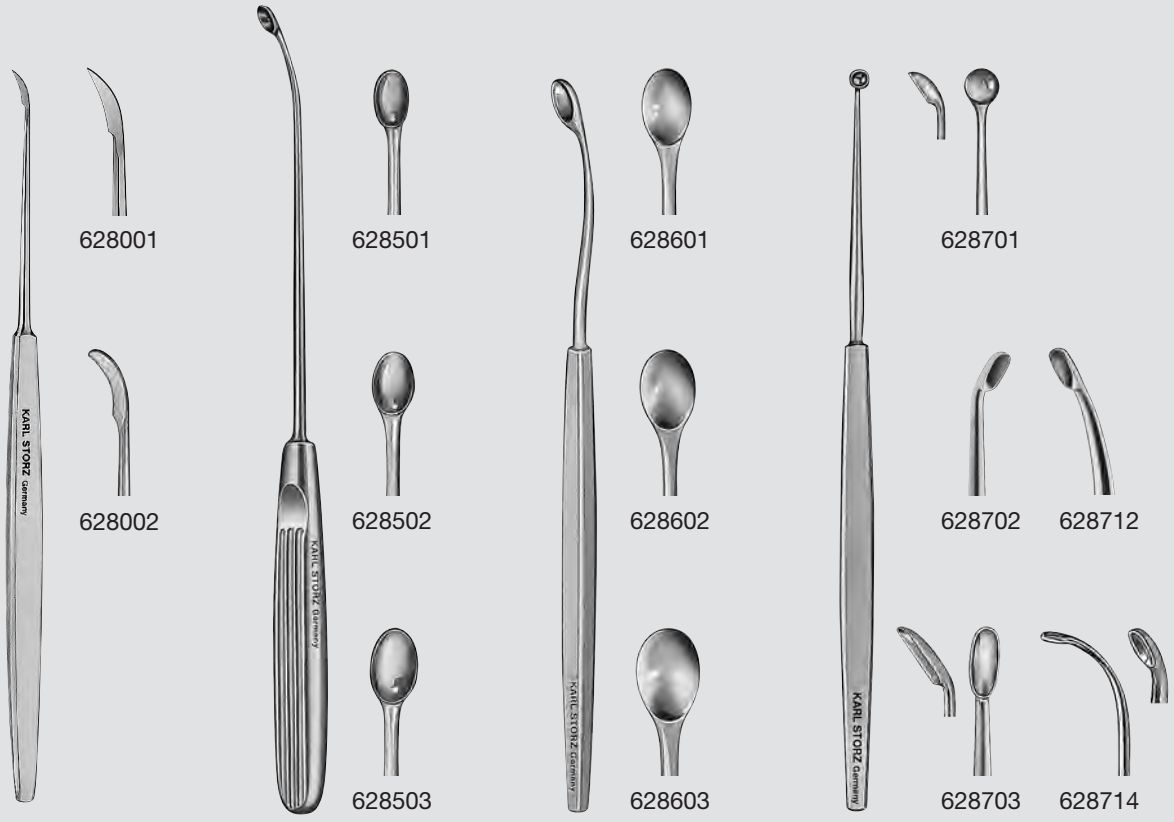
8-11

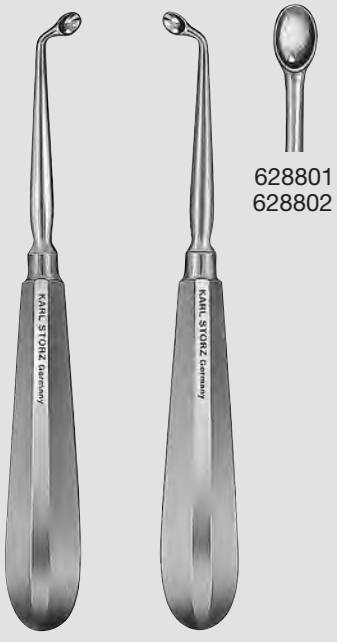


607700 608000

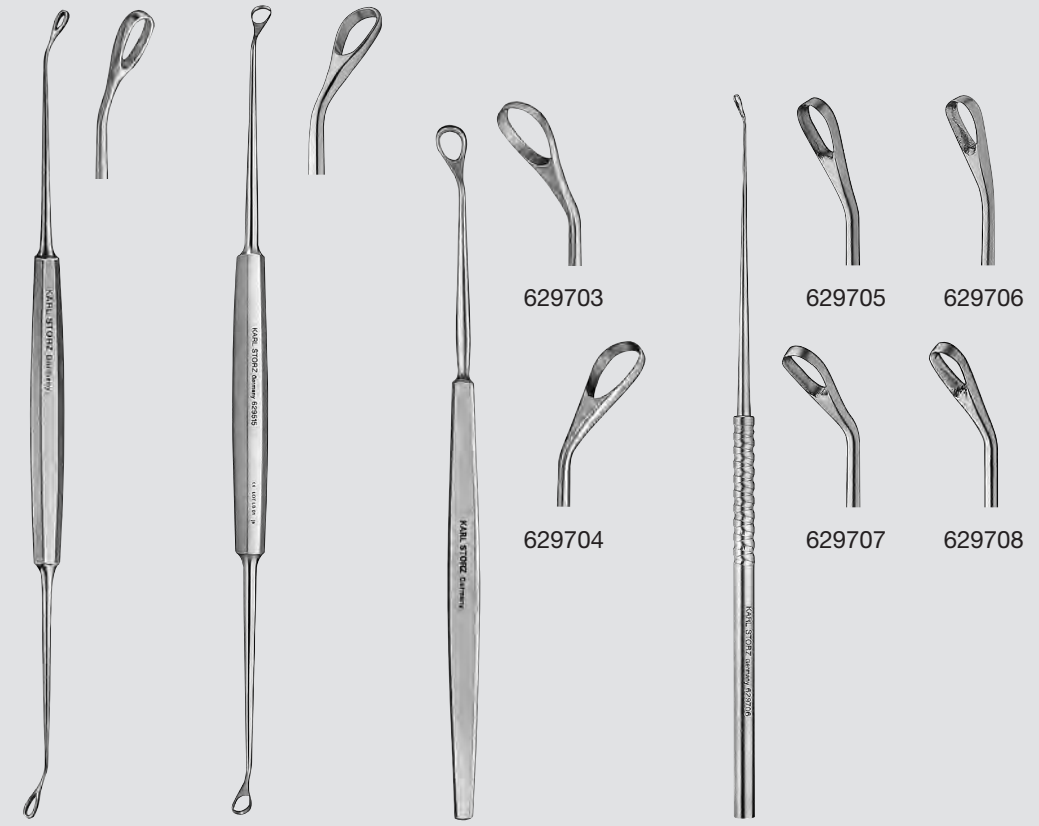
607700	WIENER **Antrum Rasp,** with trocar tip, length 19.5 cm
608000	WATSON-WILLIAMS **Antrum Rasp,** blunt, length 23 cm

3-99$_4$





628001	**Sickle Knife,** pointed, length 19 cm
628002	**Same,** round, double-cutting
628501	HALLE **Antrum Curette,** malleable, size 1, length 21 cm
628502	**Same,** size 2
628503	**Same,** size 3
628601	**Antrum Curette,** oval, size 1, length 19 cm
628602	**Same,** size 2
628603	**Same,** size 3
628701	**Antrum Curette,** round, length 19 cm
628702	**Same,** oblong, small
628703	**Same,** oblong, large
628712	KUHN-BOLGER **Frontal Sinus Curette,** 55° curved, oval, forward cutting, length 19 cm
628714	**Same,** 90° curved
628801	SIEBENMANN **Antrum Curette,** right, length 16.5 cm
628802	**Same,** left



629512	HALLE **Antrum Curette,** oval, length 24.5 cm
629515	**Same,** 35° and 65°
629703	**Antrum Curette,** forward cutting, small, length 19 cm
629704	**Same,** backward cutting
629705	**Curette,** forward cutting, angled 20°, large, working length 22 cm
629706	**Same,** small, working length 20 cm
629707	**Curette,** forward cutting, angled 45°, large, working length 22 cm
629708	**Same,** small, working length 20 cm

3-99$_3$



635005



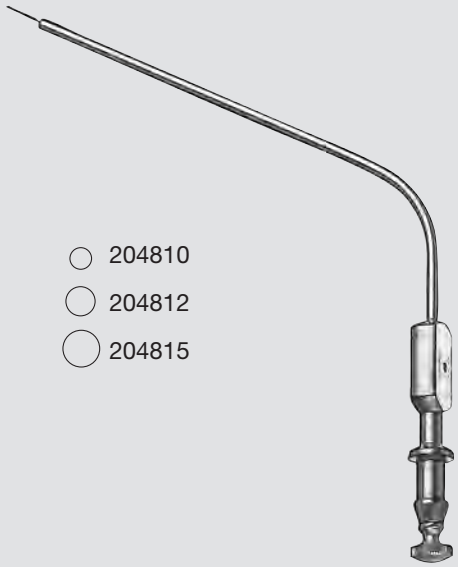
635012 –
635025



635112 –
635122



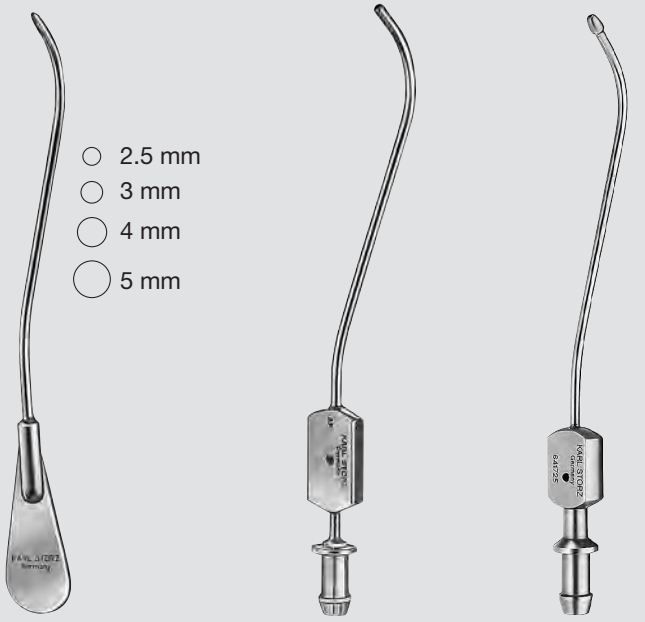
635050



204810 –
204815

◯ 204810	
◯ 204812	
◯ 204815	
635005	BEHRBOHM **Orbital Retractor,** width of spatula 8.4 x 16 mm, length 20 cm
635012	**Spatula,** malleable, width 12 mm, length 20 cm
635017	**Same,** width 17 mm
635025	**Same,** width 25 mm
635112	**Orbital Spatula,** with double graduation, width 12 mm, length 20 cm
635117	**Same,** width 17 mm
635122	**Same,** width 22 mm
635050	**Spatula,** malleable, width 50 mm, length 30 cm
204810	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
204812	**Same,** 12 Fr.
204815	**Same,** 15 Fr.

3-993

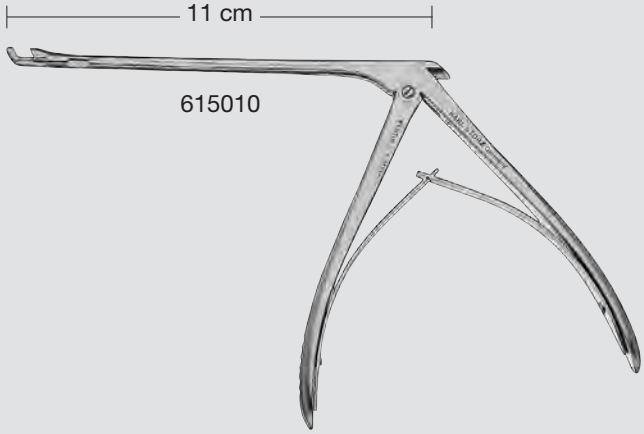


641525 – 641550 | 641625 – 641640 | 641725 – 641740

641525	RITTER **Frontal Sinus Bougie,** size 1, outer diameter 2.5 mm, length 14.5 cm
641530	**Same,** size 2, outer diameter 3 mm
641540	**Same,** size 3, outer diameter 4 mm
641550	**Same,** size 4, outer diameter 5 mm
641625	**Suction Tube,** for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm
641630	**Same,** outer diameter 3 mm
641640	**Same,** outer diameter 4 mm
641725	PASQUINI **Suction Tube,** for frontal sinus, with olive end and cut-off-hole, LUER, outer diameter 2.5 mm, length 14.5 cm
641730	**Same,** outer diameter 3 mm
641740	**Same,** outer diameter 4 mm

3-99$_2$

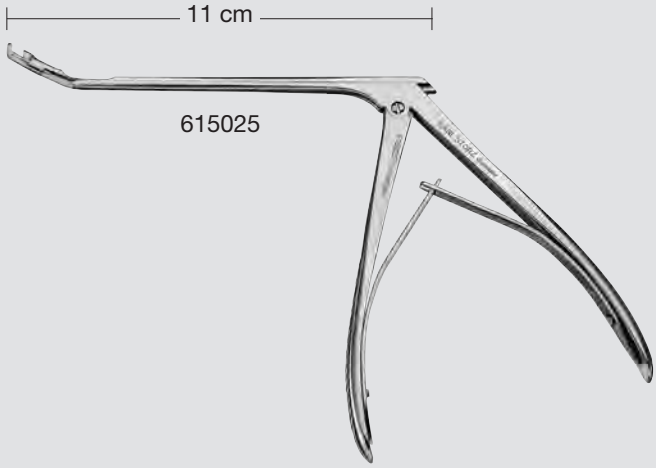
Antrum Punch, working length 11 cm





615010 **Antrum Punch,** for removal of small bone fragments on natural ostium, rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, working length 11 cm

Sphenoid Punches, working length 11 cm





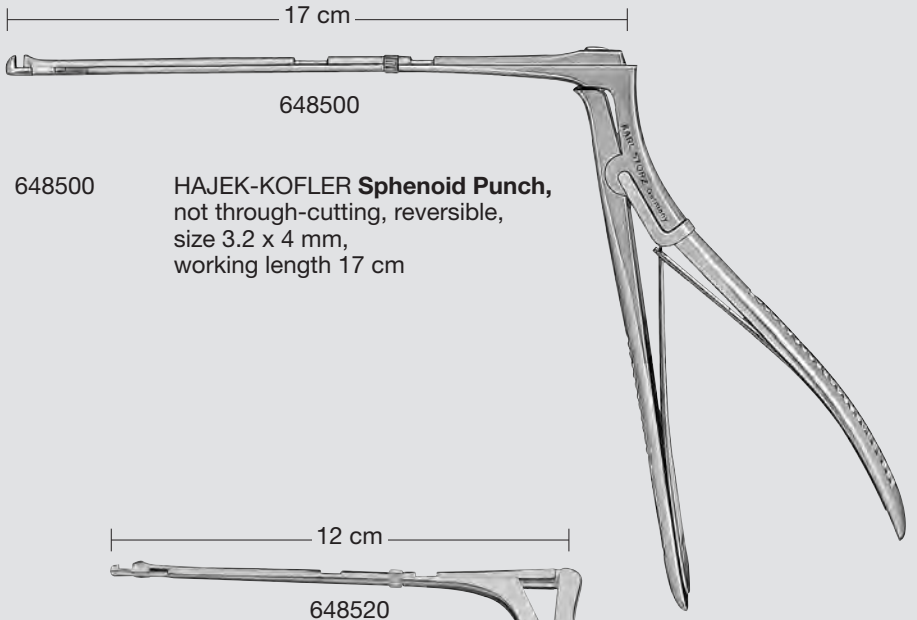
615015 CASTELNUOVO **Sphenoid Punch,** rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, fixed jaw extra flat, working length 11 cm



615025 CASTELNUOVO **Sphenoid Punch,** rigid, 30° upturned, not through-cutting, upbiting forward cutting, fixed jaw extra flat, size 2 x 2 mm, working length 11 cm

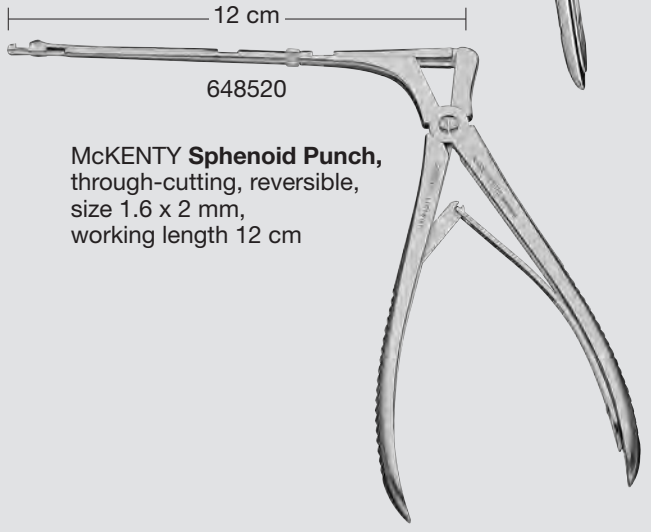
3-99$_4$

Sphenoid Punches, working lengths 12 and 17 cm



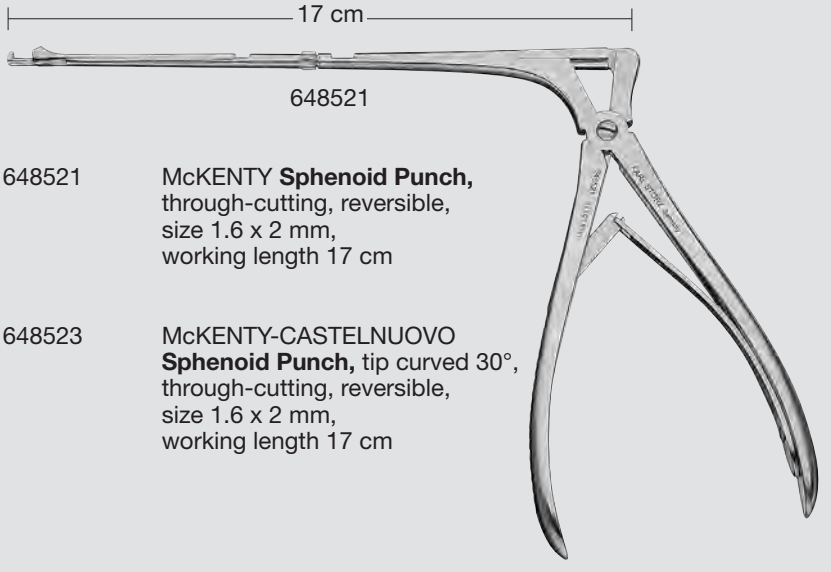


648500 HAJEK-KOFLER **Sphenoid Punch,** not through-cutting, reversible, size 3.2 x 4 mm, working length 17 cm





648520 McKENTY **Sphenoid Punch,** through-cutting, reversible, size 1.6 x 2 mm, working length 12 cm





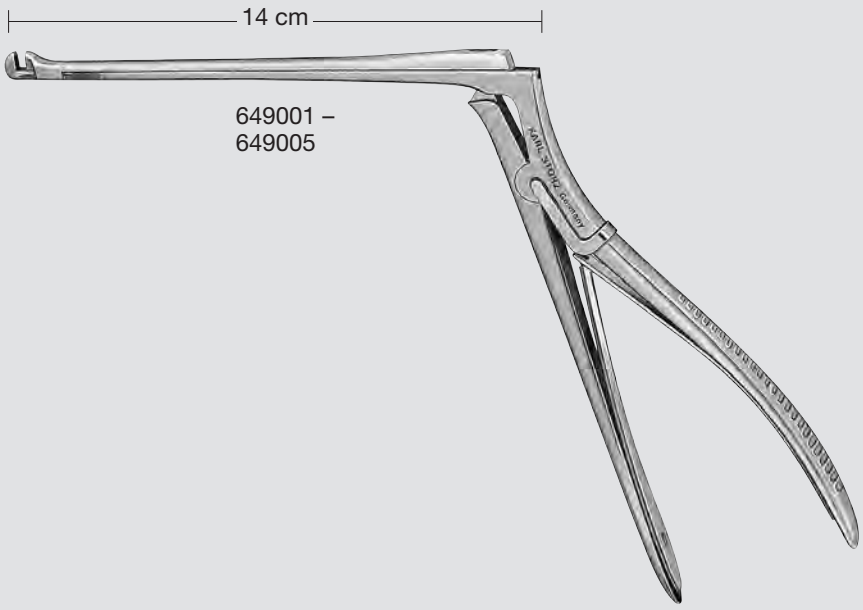
648521 McKENTY **Sphenoid Punch,** through-cutting, reversible, size 1.6 x 2 mm, working length 17 cm



648523 McKENTY-CASTELNUOVO **Sphenoid Punch,** tip curved 30°, through-cutting, reversible, size 1.6 x 2 mm, working length 17 cm

4-03$_2$

Sphenoid Punches, working length 14 cm





649001 HAJEK-KOFLER **Bone Punch,**
rigid, 90° upbiting, not through-cutting,
size 3.5 x 3.7 mm, working length 14 cm

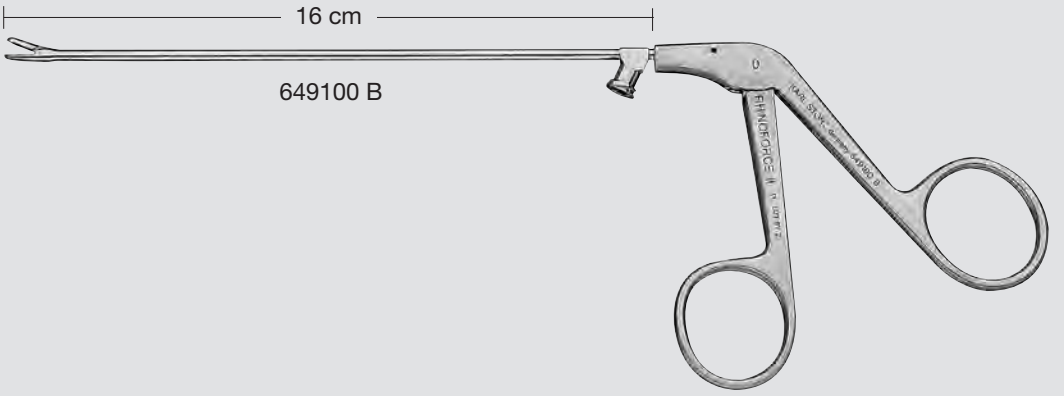


649002 **Same,** 90° downbiting



649005 **Same,** upbiting forward cutting

RHINOFORCE® II Ethmoid Forceps, working length 16 cm







649100 B — BLAKESLEY **RHINOFORCE® II Ethmoid Forceps,** straight, size 0, with cleaning connector, working length 16 cm



649101 B — **Same,** size 1



649102 B — **Same,** size 2





649110 B — BLAKESLEY-WILDE **RHINOFORCE® II Ethmoid Forceps,** 45° curved upwards, size 0, with cleaning connector, working length 16 cm



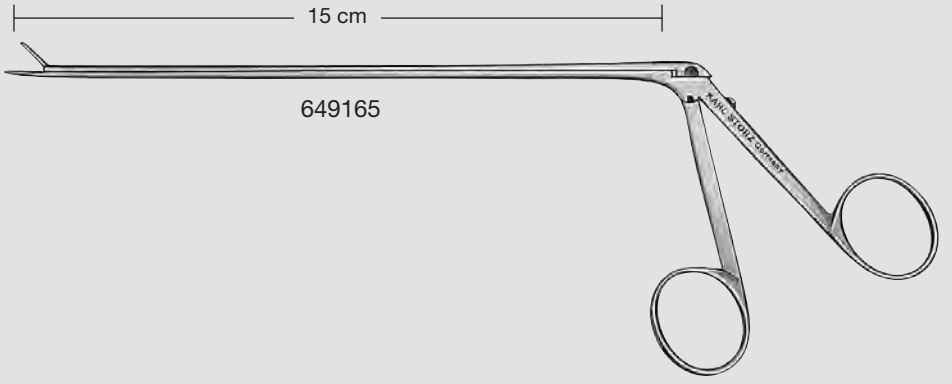
649111 B — **Same,** size 1





649123 B — TAKAHASHI **RHINOFORCE® II Ethmoid Forceps,** spoon size 4 x 10 mm, with cleaning connector, working length 16 cm

Grasping Forceps, working length 15 cm

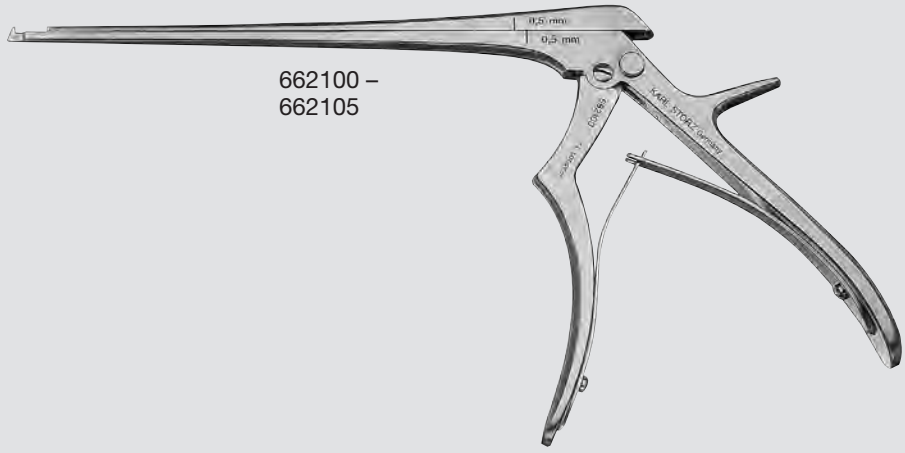




649165 — **Grasping Forceps,** rough serrated, working length 15 cm

3-99₄

Bone Punches, detachable, working length 12 and 17 cm

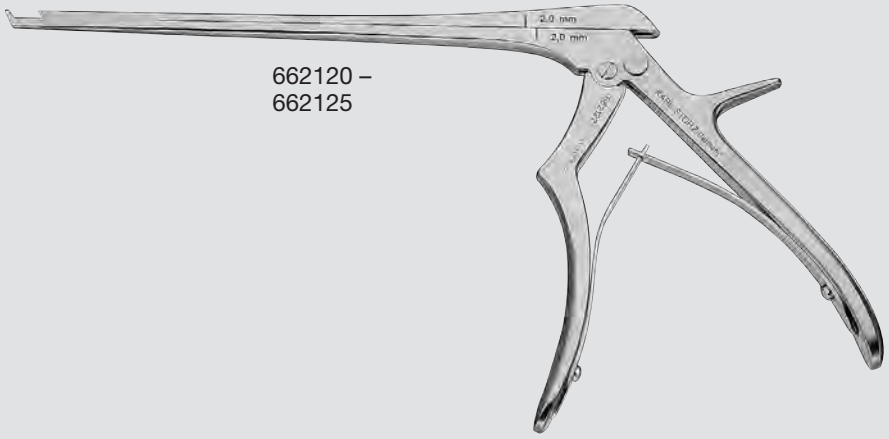


662100 –
662105

662100	KERRISON **Bone Punch,** detachable, rigid, 90° upbiting, not through-cutting, size 0.5 mm, working length 17 cm
662101	**Same,** size 1 mm
662101 K	KERRISON **Micro Punch,** detachable, short model, rigid, 90° upbiting, not through-cutting, size 1 mm, working length 12 cm
662102	KERRISON **Bone Punch,** detachable, rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm
662103	**Same,** size 3 mm
662104	**Same,** size 4 mm
662105	**Same,** size 5 mm
662111	KERRISON **Bone Punch,** detachable, rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm
662112	**Same,** size 2 mm
662113	**Same,** size 3 mm
662114	**Same,** size 4 mm

4-03₁

Punches, detachable, working length 12 and 17 cm



662120 –
662125



662120 KERRISON **Bone Punch,** detachable, rigid, upbiting 40° forward, size 0.7 mm, working length 17 cm



662121 **Same,** size 1 mm



662121 K KERRISON **Micro Punch,** detachable, short model, rigid, upbiting 55° forward, not through cutting, size 1 mm, working length 12 cm



662122 KERRISON **Bone Punch,** detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm



662123 **Same,** size 3 mm



662124 **Same,** size 4 mm



662125 **Same,** size 5 mm



662131 KERRISON **Bone Punch,** detachable, rigid, downbiting 40° forward, size 1 mm, working length 17 cm



662132 **Same,** size 2 mm



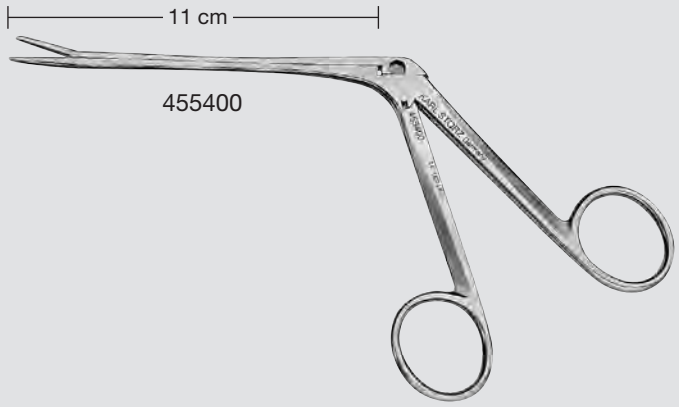
662133 **Same,** size 3 mm



662134 **Same,** size 4 mm

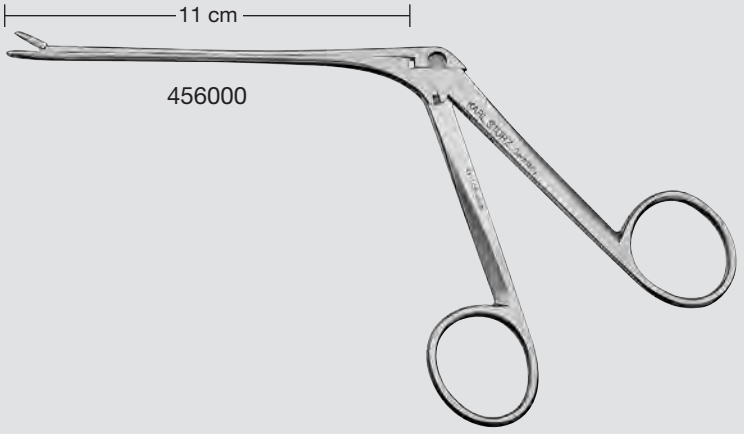
4-03₁

Nasal Forceps, working length 11 and 15 cm





455400	NOYES-HARTMANN **Nasal Forceps,** serrated jaws, working length 11 cm

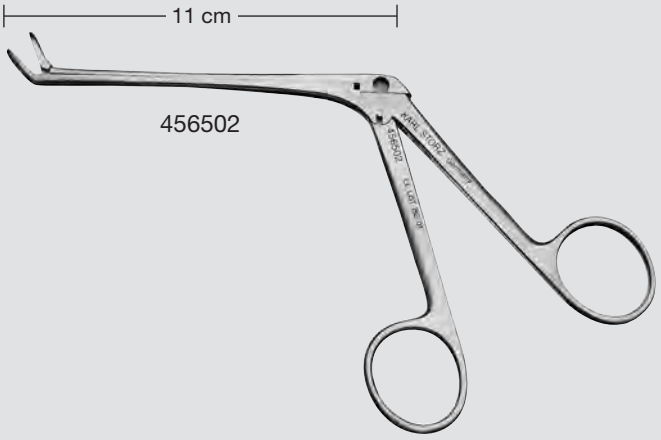




	456000	BLAKESLEY **Nasal Forceps,** straight, size 0, working length 11 cm
	456001	**Same,** size 1
	456001 L	**Same,** size 1, working length 15 cm
	456002	**Same,** size 2
	456003	**Same,** size 3
	456004	**Same,** size 4

1-03

Nasal Forceps, working length 11 cm







456500 BLAKESLEY-WILDE **Nasal Forceps,**
45° upturned, size 0, working length 11 cm



456501 **Same,** size 1



456502 **Same,** size 2



456503 **Same,** size 3



456504 **Same,** size 4





456801 BLAKESLEY-WILDE **Nasal Forceps,**
90° upturned, size 1, working length 11 cm



456802 **Same,** size 2



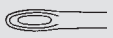
456803 **Same,** size 3





456811 BLAKESLEY-WILDE **Nasal Forceps,**
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm

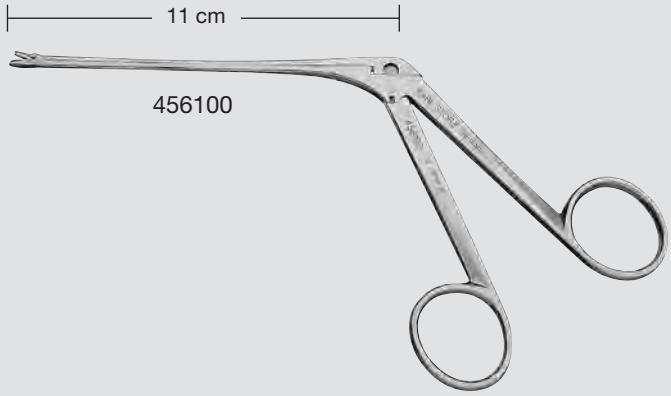




457720 BLAKESLEY-WIGAND **Nasal Forceps,**
60° upturned, long jaws 6 x 20 mm, rounded
tips, for grasping polyps and adenoid rests,
working length 11 cm

1-03$_3$

Nasal Forceps, working length 11 cm



	456100	**Nasal Forceps,** straight, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456101	**Same,** width 3.5 mm
	456102	**Same,** width 4.2 mm
	456103	**Same,** width 4.8 mm
	456120	**Nasal Forceps,** 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456121	**Same,** width 3.5 mm
	456122	**Same,** width 4.2 mm
	456123	**Same,** width 4.8 mm

1-03₁

Nasal Forceps, working length 10.5 and 12.5 cm





455504 TAKAHASHI **Nasal Forceps,** straight, delicate, working length 12.5 cm





453508 **Nasal Forceps,** straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm

453508 K **Same,** with foreign body basket



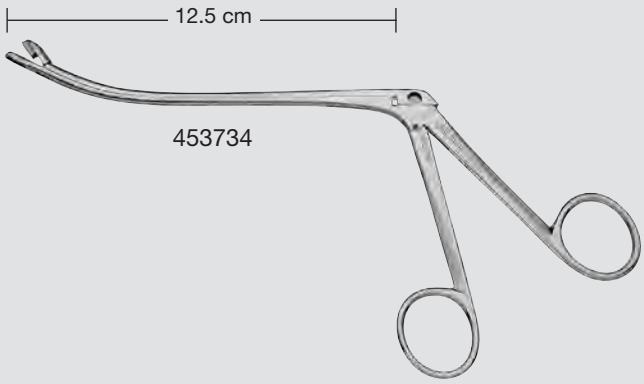
453509 **Nasal Forceps,** straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm



453510 **Nasal Forceps,** straight, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm

4-032

Nasal Forceps, working length 10.5 and 12.5 cm



453734



453710 **Nasal Cutting Forceps,** 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm



453721 **Nasal Forceps,** 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm



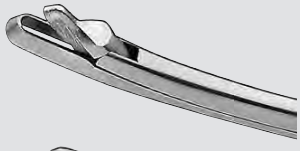
453722 **Nasal Forceps,** 45° upturned, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm



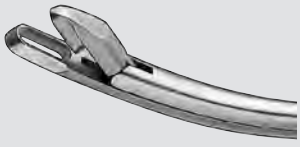
453723 **Nasal Forceps,** 45° upturned, through-cutting, robust model, medium, bite 2.75 x 6 mm, working length 10.5 cm



453724 **Nasal Forceps,** 45° upturned, through-cutting, robust model, large, bite 3 x 8 mm, working length 10.5 cm



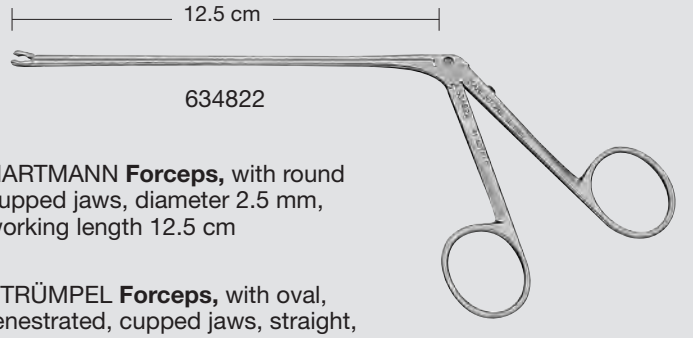
453733 **Nasal Forceps,** through-cutting, fine, shaft end slightly curved upwards, bite 1.5 x 4.5 mm, working length 12.5 cm



453734 **Nasal Forceps,** through-cutting, robust model, shaft end slightly curved upwards, working length 12.5 cm

4-031

Delicate forceps and scissors – particularly suitable for children and postoperative treatment, working length 12.5 cm





634822 HARTMANN **Forceps,** with round cupped jaws, diameter 2.5 mm, working length 12.5 cm



634824 STRÜMPEL **Forceps,** with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm



634825 A **Same,** 45° upturned



634825 B **Same,** 90° upturned



634826 BELLUCCI **Scissors,** straight, working length 12.5 cm

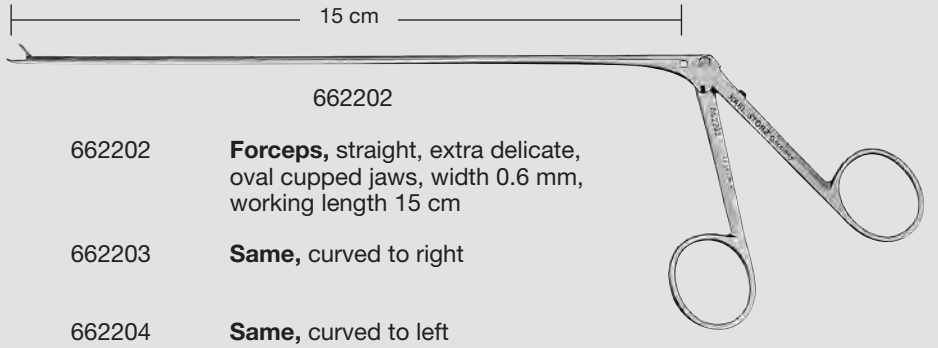


634826 L **Scissors,** curved to left, working length 12.5 cm



634826 R **Same,** curved to right

Forceps, working length 15 cm





662202 **Forceps,** straight, extra delicate, oval cupped jaws, width 0.6 mm, working length 15 cm



662203 **Same,** curved to right



662204 **Same,** curved to left



662205 **Same,** 45° upturned



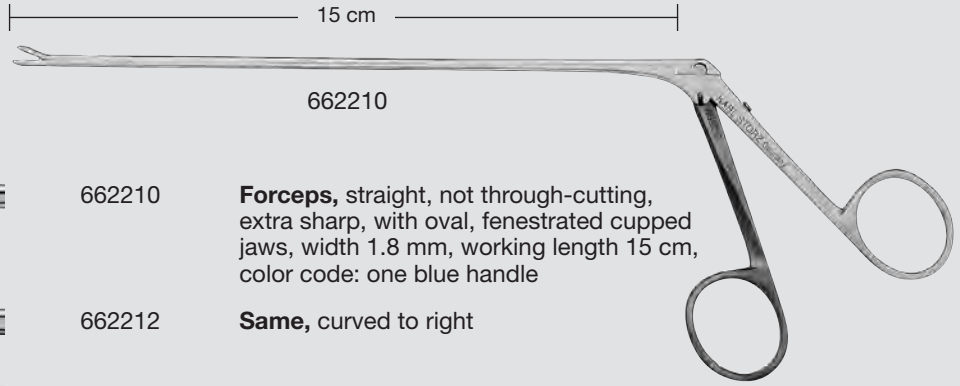
662201 **Forceps,** straight, extra delicate, oval cupped jaws, width 0.9 mm, working length 15 cm



662207 **Same,** 45° upturned

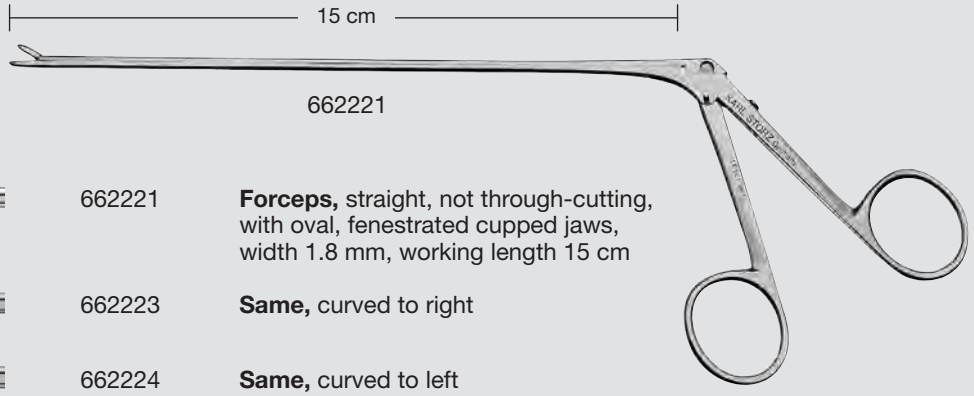
4-032

Forceps, working length 15 cm





662210	**Forceps,** straight, not through-cutting, extra sharp, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm, color code: one blue handle
662212	**Same,** curved to right
662213	**Same,** curved to left
662214	**Same,** 45° upturned
662215	**Same,** 90° upturned

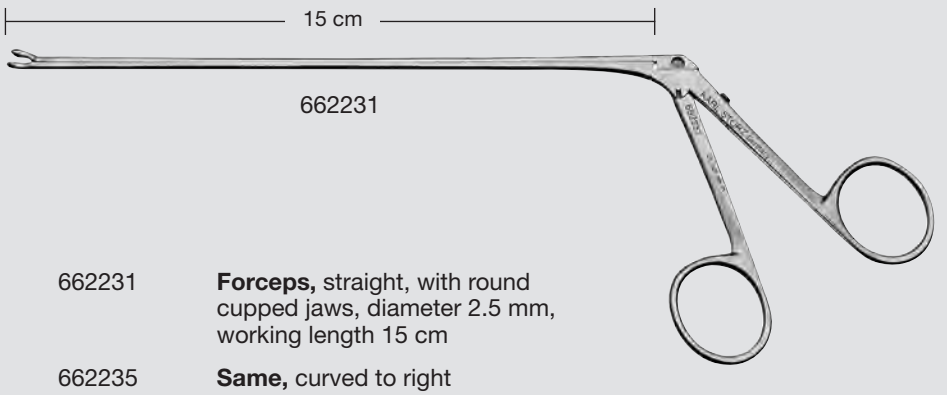




662221	**Forceps,** straight, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm
662223	**Same,** curved to right
662224	**Same,** curved to left
662227	**Same,** 45° upturned
662228	**Same,** 90° upturned
662211	**Forceps,** straight, not through-cutting, with oval, fenestrated cupped jaws, width 2.5 mm, working length 15 cm
662217	**Same,** 45° upturned
662218	**Same,** 90° upturned

4-03$_2$

Forceps, working length 15 cm



662231



662231 **Forceps,** straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm



662235 **Same,** curved to right



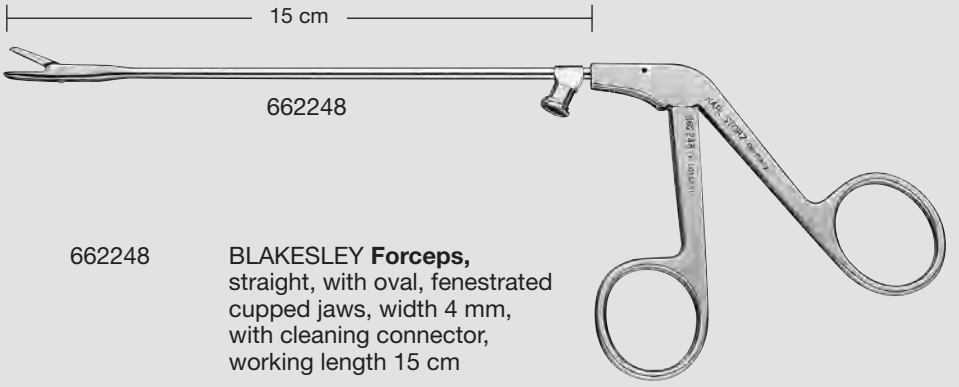
662236 **Same,** curved to left



662237 **Same,** 45° upturned



662241 **Forceps,** straight, with round cupped jaws, diameter 4 mm, working length 15 cm



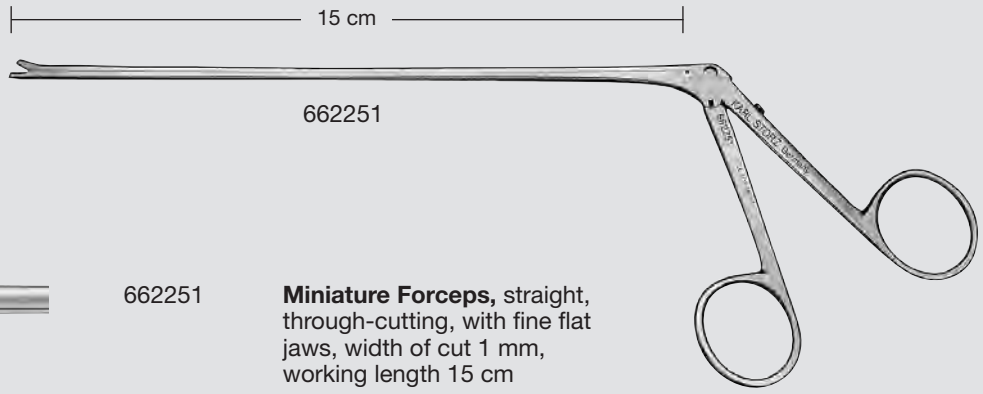
662248



662248 BLAKESLEY **Forceps,** straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 15 cm

4-03

Miniature Forceps, working length 15 cm





662251 **Miniature Forceps,** straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 15 cm



662255 **Same,** curved to right



662256 **Same,** curved to left

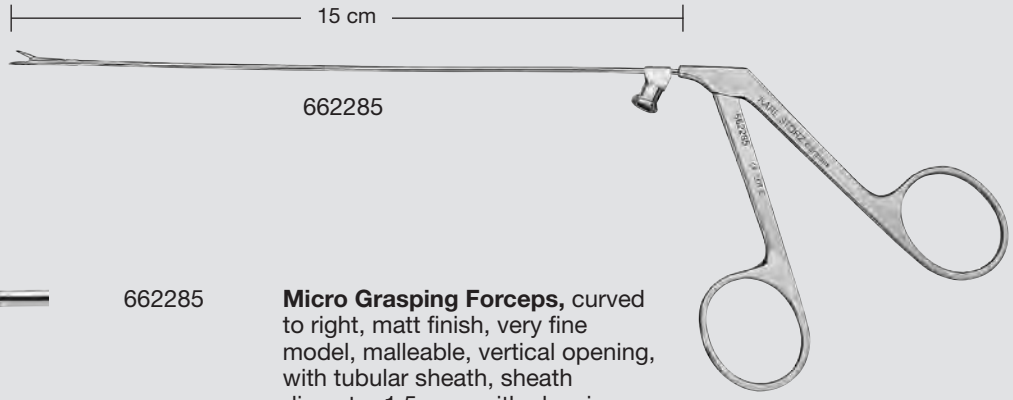


662257 **Same,** curved upwards



662271 **Grasping Forceps,** straight, fine-serrated, working length 15 cm

Micro Grasping Forceps, working length 15 cm





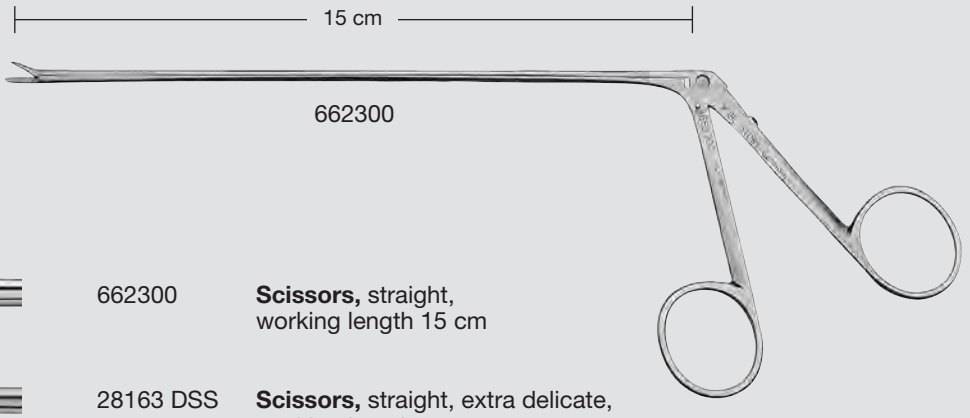
662285 **Micro Grasping Forceps,** curved to right, matt finish, very fine model, malleable, vertical opening, with tubular sheath, sheath diameter 1.5 mm, with cleaning connector, working length 15 cm



662286 **Same,** curved to left

1-03$_3$

Scissors, working length 15 cm





662300 **Scissors,** straight,
working length 15 cm



28163 DSS **Scissors,** straight, extra delicate,
working length 15 cm



662304 **Same,** curved to right, extra delicate



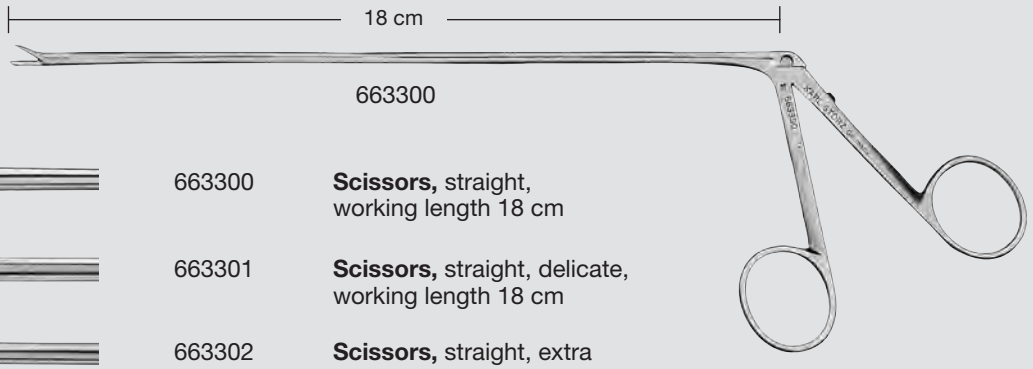
662305 **Same,** curved to left, extra delicate

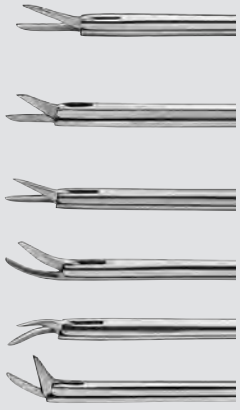


662307 **Same,** 45° curved upwards, extra delicate

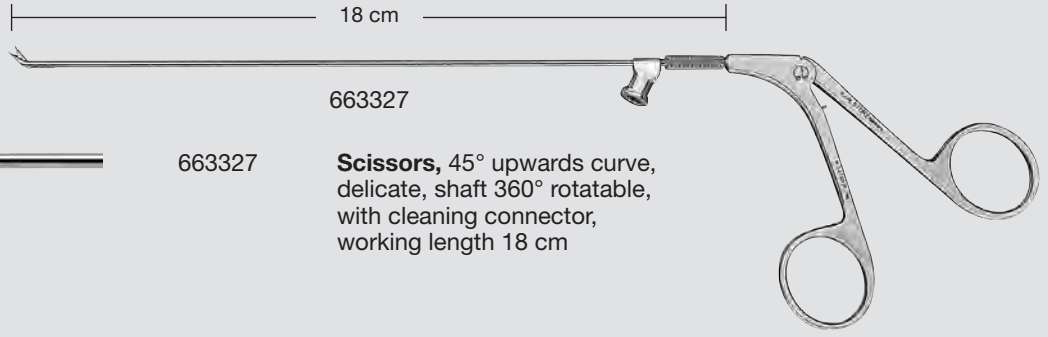
4-03₁

Scissors, working length 18 cm





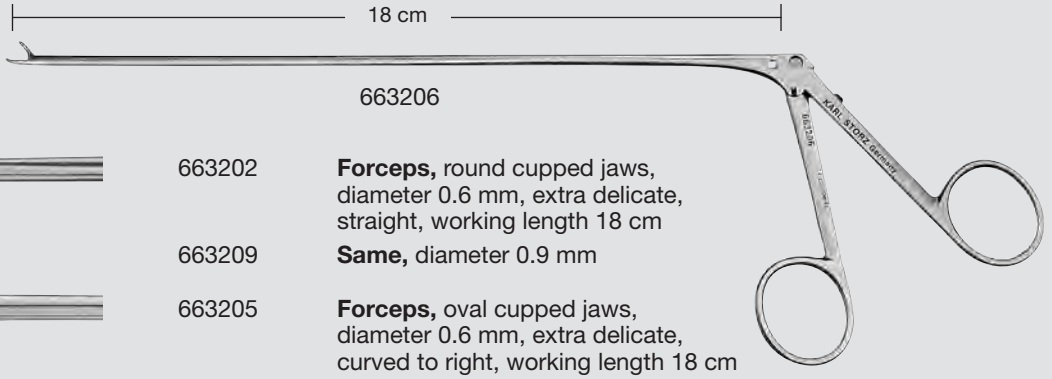
663300	**Scissors,** straight, working length 18 cm
663301	**Scissors,** straight, delicate, working length 18 cm
663302	**Scissors,** straight, extra delicate, working length 18 cm
663304	**Same,** curved to right
663305	**Same,** curved to left
663307	**Same,** 45° curved upwards





663327	**Scissors,** 45° upwards curve, delicate, shaft 360° rotatable, with cleaning connector, working length 18 cm

Forceps, working length 18 cm

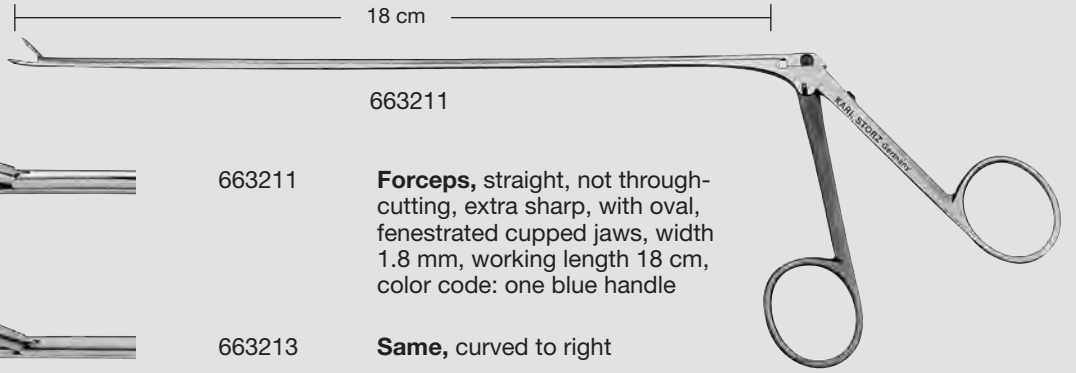




663202	**Forceps,** round cupped jaws, diameter 0.6 mm, extra delicate, straight, working length 18 cm
663209	**Same,** diameter 0.9 mm
663205	**Forceps,** oval cupped jaws, diameter 0.6 mm, extra delicate, curved to right, working length 18 cm
663206	**Same,** curved to left
663207	**Same,** 45° upturned

1-03₃

Forceps, working length 18 cm





663211 **Forceps,** straight, not through-cutting, extra sharp, with oval, fenestrated cupped jaws, width 1.8 mm, working length 18 cm, color code: one blue handle



663213 **Same,** curved to right



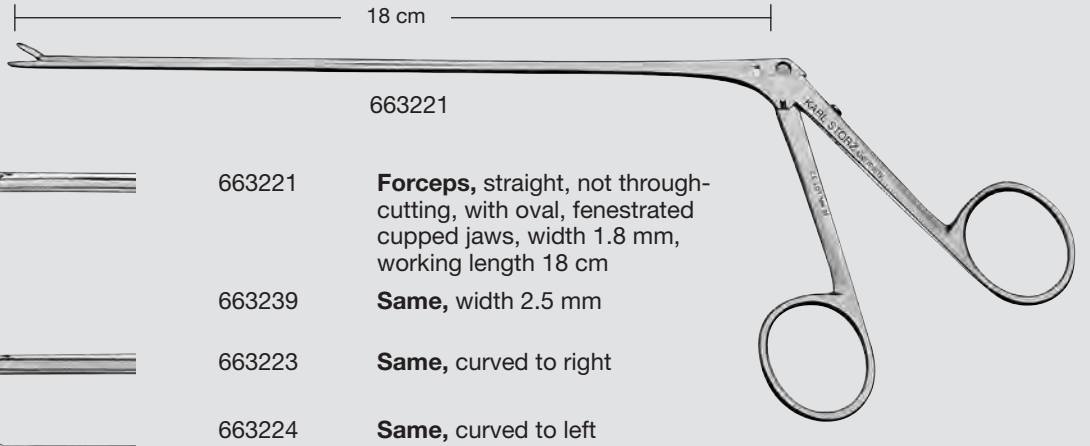
663214 **Same,** curved to left



663217 **Same,** 45° upturned



663218 **Same,** 90° upturned





663221 **Forceps,** straight, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 18 cm

663239 **Same,** width 2.5 mm



663223 **Same,** curved to right



663224 **Same,** curved to left



663226 **Same,** 45° upturned, length of jaws 9 mm



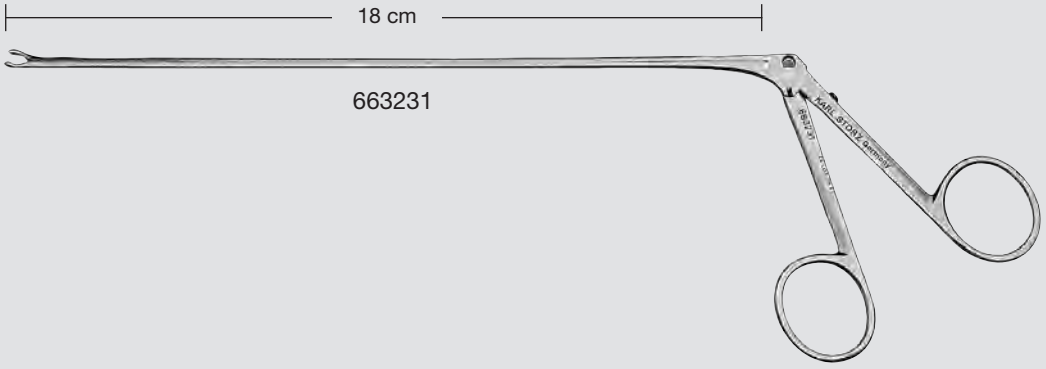
663227 **Same,** 45° upturned



663228 **Same,** 90° upturned

1-03₂

Forceps, working length 18 cm





663231 **Forceps,** straight, with round cupped jaws, diameter 2.5 mm, working length 18 cm



663235 **Same,** curved to right



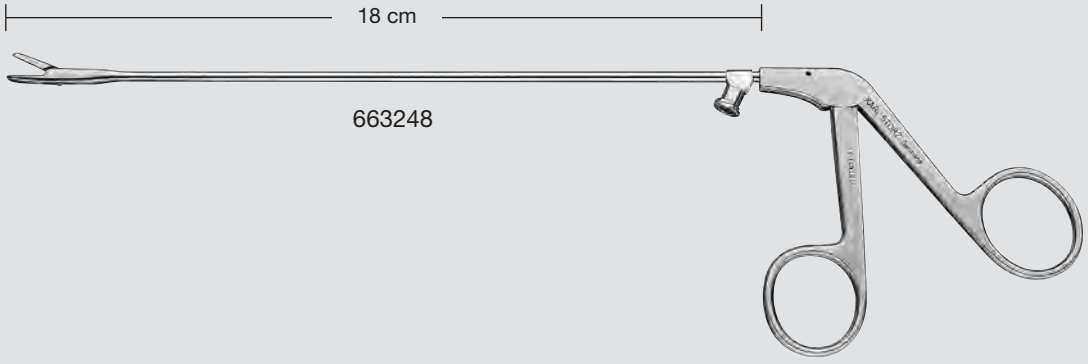
663236 **Same,** curved to left



663237 **Same,** 45° upturned



663241 **Same,** diameter 4 mm

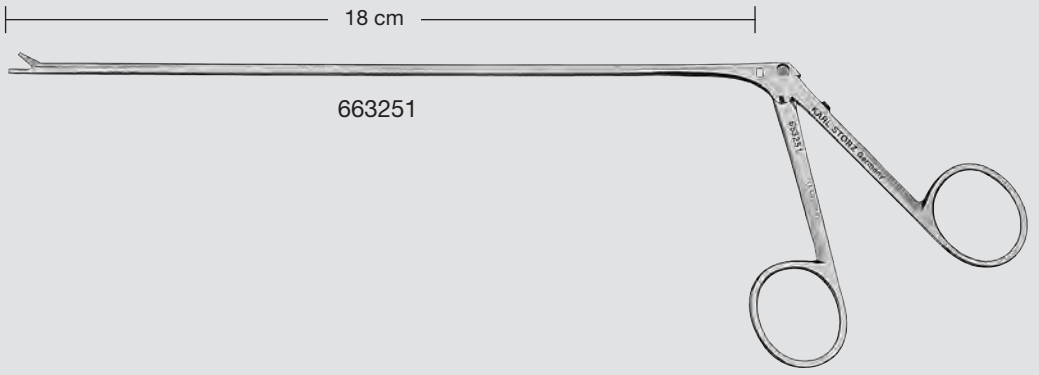




663248 BLAKESLEY **Forceps,** straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 18 cm

4-03

Forceps, working length 18 cm





663251 **Miniature Forceps,** straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 18 cm



663255 **Same,** curved to right



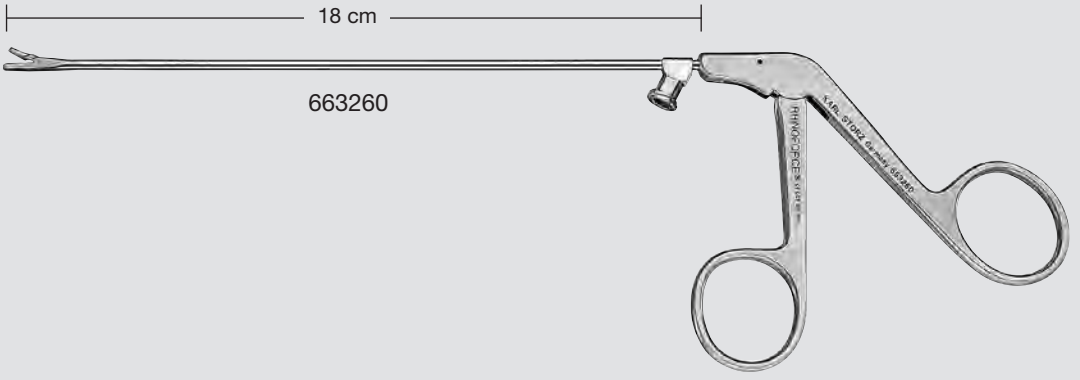
663256 **Same,** curved to left



663257 **Same,** curved upwards



663271 **Grasping Forceps,** straight, fine-serrated, working length 18 cm





663260 GRÜNWALD-HENKE **RHINOFORCE® II Forceps,** straight, through-cutting, tissue-sparing, jaws 3 mm, BLAKESLEY shape, size 0, with cleaning connector, working length 18 cm

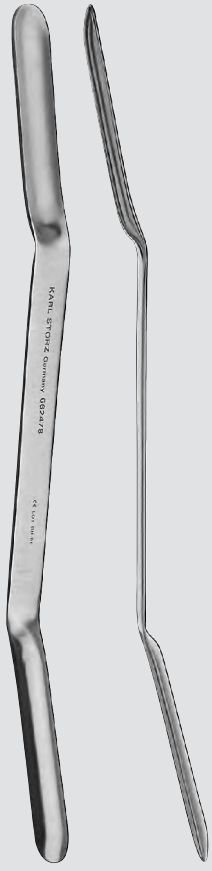


663263 **Same,** 45° upturned

4-03$_2$



662471 – 662473



662475 – 662479

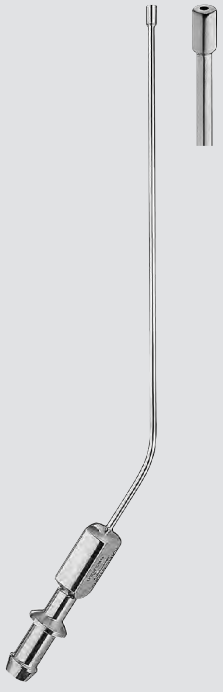


662721



662797

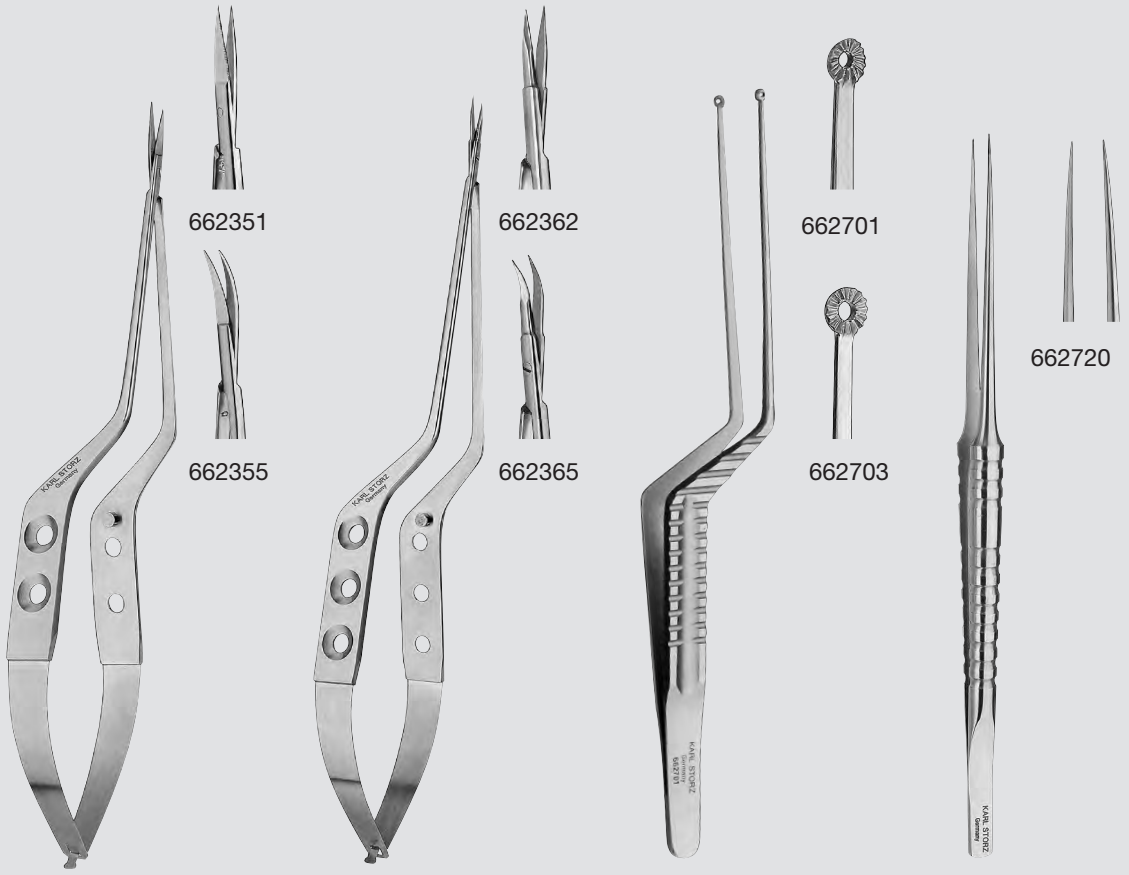
662797



662820 – 662830

662471	CUSHING **Brain Spatula,** angled on both sides, convex, malleable, width 11 and 13 mm, length 18 cm
662472	**Same,** width 15 and 18 mm
662473	**Same,** width 18 and 22 mm
662475	OLIVECRONA **Brain Spatula,** angled on both sides, concave, elastic, width 5 and 6 mm, length 18 cm
662476	**Same,** width 7 and 9 mm
662477	**Same,** width 11 and 13 mm
662478	**Same,** width 15 and 18 mm
662479	**Same,** width 18 and 22 mm
662721	ALLIS **Forceps,** with fine teeth, length 20 cm
662797	YASARGIL **Spring Hook,** small, for galea fixation with bulldog clamp, to be fastened to covering drape, diameter of spring 9 mm, total length 31 cm
662820	FRANK-PASQUINI **Suction Tube,** angular, tip straight, with grip plate and cut-off hole, diameter 2 mm, working length 12 cm
662825	**Same,** diameter 2.5 mm
662830	**Same,** diameter 3 mm

4-03



662351	YASARGIL **Micro Scissors,** spring type, bayonet-shaped, scissor blades straight, length 20 cm
662355	YASARGIL **Same,** scissor blades curved downwards
662362	VANNAS **Micro Scissors,** spring type, bayonet-shaped, straight tips, length 20 cm
662365	**Same,** scissor blades curved upwards
662701	YASARGIL **Forceps,** for grasping tissue and tumors, round and serrated jaws, bayonet-shaped, diameter 3 mm, length 20 cm
662703	HUNT **Same,** diameter 5 mm
662720	**Micro Forceps,** tip 0.2 mm wide, straight, length 17 cm
662725	**Micro Forceps,** tip 0.5 mm wide, straight with plateau, length 17 cm

8-11





663402 663405 663413 663461 663463 663466 663482

663402 **Sickle Knife,** slightly curved, with round handle, length 21.5 cm

663405 **Round Knife,** vertical, with round handle, 4.5 x 3 mm, length 21.5 cm

663413 **Round Knife,** angled 30°, oval, with round handle, 2.1 x 2.5 mm, length 21.5 cm

663461 **Curette,** sharp, oval, angled 55°, 1.2 x 2 mm, with round handle, length 21.5 cm

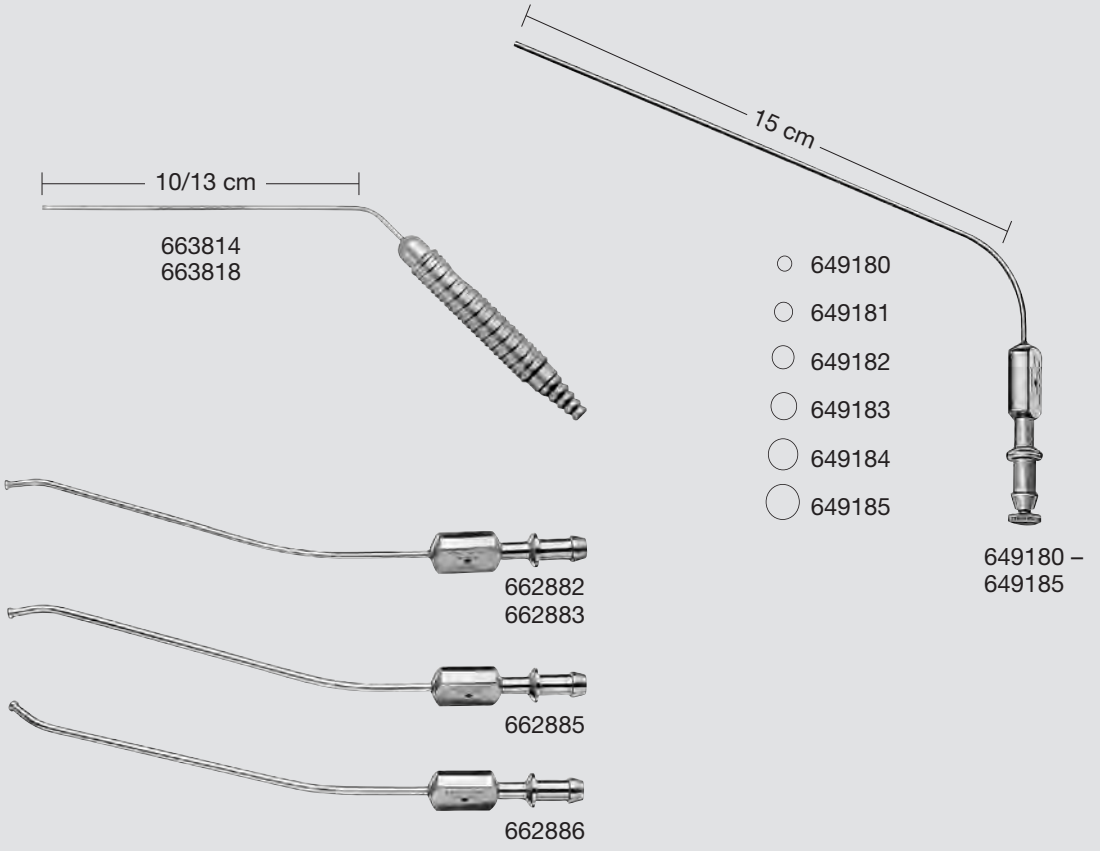
663463 **Same,** angled 60°, 2 x 3.2 mm

663466 **Same,** angled 85°, 1.2 x 2 mm

663482 **Hook,** with ball end, angled 90°, with round handle, length 21.5 cm

4-03

Suction Tubes, working length 10, 13 and 15 cm



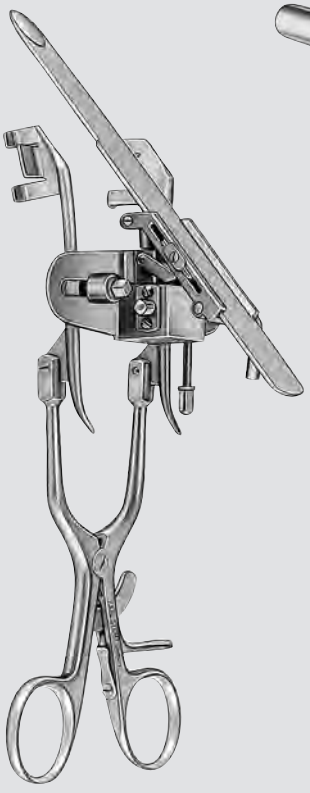
649180	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, 6 Fr., working length 15 cm
649181	**Same,** 7 Fr.
649182	**Same,** 8 Fr.
649183	**Same,** 10 Fr.
649184	**Same,** 12 Fr.
649185	**Same,** 15 Fr.
663814	**Suction Tube,** angular, malleable, with round handle and cut-off hole, diameter 2 mm, working length 10 cm
663818	**Same,** working length 13 cm
662882	FRANK-PASQUINI **Suction Tube,** angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 2.4 mm, working length 13 cm
662883	**Same,** curved downwards
662885	FRANK-PASQUINI **Suction Tube,** angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 3 mm, working length 13 cm
662886	**Same,** curved downwards

8-11

Components/Spare Parts see chapter 16



219717 B



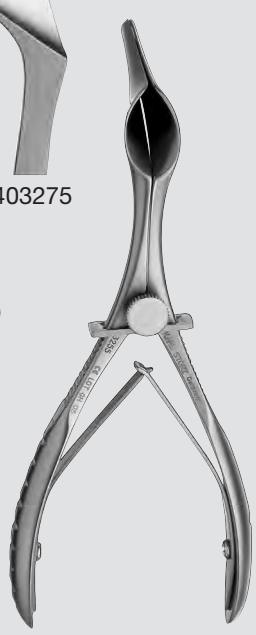
219800



403275

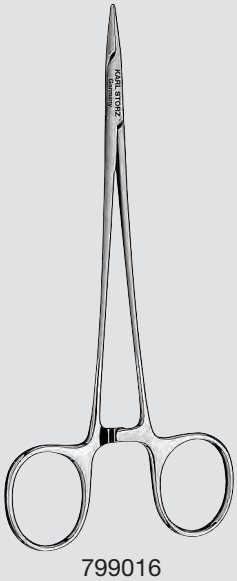


403255





798618



799016

219717 B	FISCH **Retractor,** articulated, 3 x 3 prongs, sharp, length 17 cm
219800	FISCH **Dura Retractor,** length 18 cm including: **Spatula,** straight, length 12 cm **Spatula,** straight, length 15 cm **Spatula,** curved, length 15 cm **Spatula Attachment,** for adjustment of spatulas **Wrench,** for spatula attachment
403255	KILLIAN-STRUYCKEN **Nasal Speculum,** with set rack, blade length 55 mm, length 15 cm
403275	**Same,** blade length 75 mm
798618	HEGAR **Needle Holder,** tungsten carbide inserts, slender, length 18 cm
799016	DRAF **Micro Needle Holder,** extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

Components/Spare Parts see chapter 16



	28164 EA	CASTELNUOVO **Elevator,** double-ended, semisharp and blunt, length 26 cm
	28164 EB	CASTELNUOVO **Elevator,** double-ended, angled end shovel-shaped, semisharp, blunt end slightly curved, length 26 cm
	28164 EC	CASTELNUOVO **Elevator,** double-ended, blunt end angled, semisharp end slightly curved, graduated, length 26 cm
	28164 ES	CASTELNUOVO **Suction Elevator,** with stylet, curved, length 25 cm
	474015	CASTELNUOVO **Suction Elevator,** flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
	474016	**Same,** flat tip 3 x 1.8 mm
NEW	474017	CASTELNUOVO **Suction Elevator,** flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
NEW	474018	**Same,** 3 x 1.8 mm
	477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
	844423	**Bipolar Coagulating Forceps,** insulated, bayonet-shaped, tip 0.3 mm, length 23 cm, for use with Bipolar High Frequency Cords 847000 E or 847000 A/F/M/N/S/T/V
	844523	**Same,** tip 0.7 mm, length 23 cm
	844623	**Same,** blunt, tip 1.2 mm, length 23 cm

4-03$_2$

THUMFART **Irrigation and Suction Endoscope**

with ergonomic ring handle, with press or push button valve for switching irrigation on and off, for use with HOPKINS® II telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

The suction-irrigation endoscope is used to clear the telescope lens of blood, secretions and condensation. This ensures that there is always a clear view of the surgical field. It is no longer necessary to remove the telescope from the nasal cavity in order to clean the lens. This eliminates the reorientation and adjustment of the surgical field which was necessary in the past and results in significant time savings and uninterrupted work. To a certain extent, the irrigation jet also makes it possible to clear the surgical field.

Special Features:

- **Handle is easy to hold and operate due to the ergonomic ring handle and finger grip plate**
- **Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view**
- **Continuous suction**
- **For use with high pressure irrigation or irrigation bag**
- **For use with HOPKINS® II telescopes diameter 2.7 and 4 mm**
- **Handle available with 2 different valves:**
  Press button valve with lock function:
  Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
  Push button valve:
  Irrigation is only possible when the valve button is depressed



723620/723621

723620	THUMFART **Irrigation and Suction Handle,** with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including: **Press Button Valve,** with lock function
723621	THUMFART **Irrigation and Suction Handle,** with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including: **Push Button Valve** (irrigation only active when the valve button is depressed)
101010-10*	**Single Use Push Button Pressure Valve,** for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

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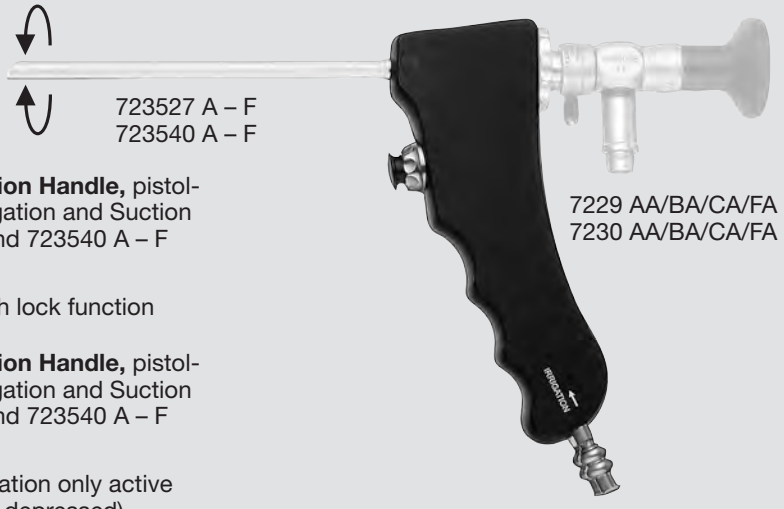
Components/Spare Parts see chapter 16

IRO **Irrigation and Suction Endoscope**

with pistol grip handle, with press or push button valve for switching irrigation on and off, for use with HOPKINS® II Telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

In addition to the decisive clinical advantages of using a suction-irrigation device for nasal sinus surgery, IRO **handle is distinguished by the following special features:**

- **Ergonomic pistol-grip handle for enhanced ease of use and comfort**
- **Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view**
- **On-axis rotation of the sheath can be performed while maintaining the position of the pistol-grip handle. In this way, handling of instruments through the working channel is possible without becoming entangled with the fiber optic light cable.**
- **For use with HOPKINS® II Telescopes diameter 2.7 and 4 mm**
- **Grip is available with 2 different valves:**
  Press button valve with lock function:
  Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
  Push button valve:
  Irrigation is only possible when the valve button is depressed
- **For use with high pressure irrigation or irrigation bag**
- **Continuous suction**



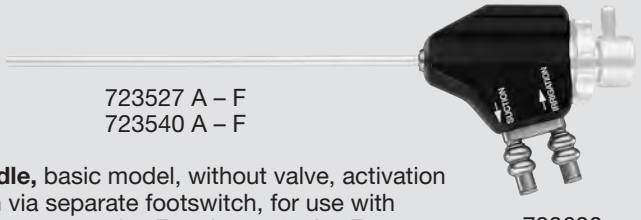
723527 A – F
723540 A – F

7229 AA/BA/CA/FA
7230 AA/BA/CA/FA

723622/723623

723622 IRO **Irrigation and Suction Handle,** pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
including:
Press Button Valve, with lock function

723623 IRO **Irrigation and Suction Handle,** pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
including:
Push Button Valve (irrigation only active when the valve button is depressed)



723527 A – F
723540 A – F

723630

723630 **Irrigation and Suction Handle,** basic model, without valve, activation and deactivation of irrigation via separate footswitch, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

101010-10* **Single Use Push Button Pressure Valve,** for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

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Components/Spare Parts see chapter 16

4-033

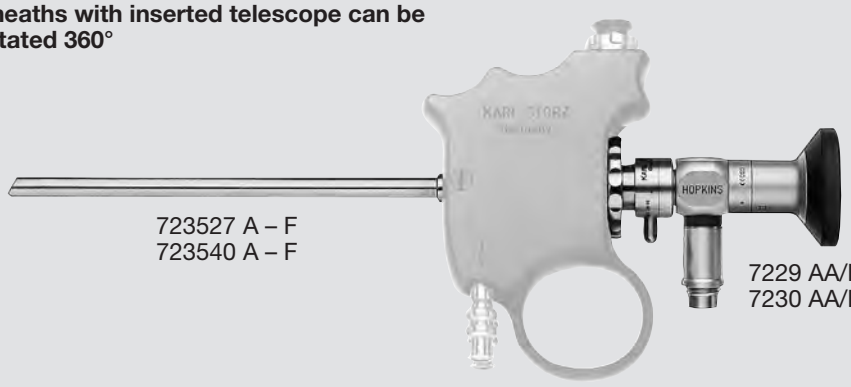
Irrigation and Suction Sheaths

for endoscopic nasal sinuses surgery, for use with Irrigation and Suction Handles 723620 – 723630 and HOPKINS® II telescopes with diameter 2.7 mm 7219 AA – FA, 7229 AA – FA and HOPKINS® II telescopes with diameter 4 mm 7230 AA – FA

The sheaths 723527 A – F and 723540 A – F represent a new, improved construction with excellent irrigation-suction characteristics:

Special Features:

- **Completely new design with double channel in a single sheath**
- **Maintenance free – no seal rings**
- **Robust stability – torsion resistant**
- **Hygienic – separate irrigation and suction canals**
- **Liquid which remains in the sheath cannot be rinsed out in the surgical area**
- **Slim, vertical oval sheath shapes: 3.5 x 4.7 mm and 4.8 x 6 mm**
- **Sheaths with inserted telescope can be rotated 360°**
- **723527 A – F for use with 2.7 mm HOPKINS® II Telescopes with 0°, 30° and 45°**
- **723540 A – F for use with 4 mm HOPKINS® Telescopes with 0°, 30°, 40° and 70°**
- **Suitable for** IRO **and** THUMFART **Irrigation and Suction Handles 723620 – 723623 and for 723630**
- **Easy preparation with Cleaning Accessories 723540 K/L, 723527 L**



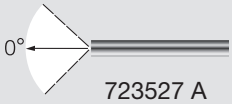
723527 A – F
723540 A – F

7229 AA/BA/CA/FA
7230 AA/BA/CA/FA









723527 A
723540 A



723527 B
723540 B



723527 F
723540 F



723540 C

723527 A	**Irrigation and Suction Sheath 0°,** vertical oval, 3.5 x 4.7 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723527 L, 723540 K and Telescopes 7219 AA, 7229 AA
723527 B	**Same, 30°,** for use with Telescopes 7219 BA, 7229 BA
723527 F	**Same, 45°,** for use with Telescopes 7219 FA, 7229 FA
723540 A	**Irrigation and Suction Sheath 0°,** vertical oval, 4.8 x 6 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723540 K – L and Telescope 7230 AA
723540 B	**Same, 30°,** for use with Telescope 7230 BA
723540 F	**Same, 45°,** for use with Telescope 7230 FA
723540 C	**Same, 70°,** for use with Telescope 7230 CA
723540 K	**Cleaning Attachment,** for irrigation channel of Irrigation and Suction Sheaths 723527 A – F and 723540 A – F, LUER-Lock, length 3.5 cm
723540 L	**Cleaning Tube,** for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm
723527 L	**Cleaning Tube,** for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

4-03₃

CLEARVISION® II

for Intraoperative Cleaning of the Front Lens

KARL STORZ — ENDOSKOPE

CLEARVISION® II System

The KARL STORZ CLEARVISION® II System cleans the lens simply and quickly via a pulsating irrigation technique, which provides an unobstructed view during interventions in sinus or neural sinus surgery. The rinsing process is activated by pressing the footswitch. Releasing the footswitch reverses the pump to suction out any remaining irrigation fluid in the tube or irrigation sheath. The duration of the reverse rotation can be set on a switch on the front of the device. Any drops of irrigation liquid on the distal lens is removed to prevent reflections.

The CLEARVISION® II System can be used in conjunction with suitable sheaths for use with KARL STORZ HOPKINS® II Telescopes 7229 AA – FA and 7230 AA – FA. When designing the construction, particular value was placed on the fact that the intervention would not have to be interrupted during the cleaning phase.

Special Features:

- **The first stage (semi-pressed pedal) cleans the distal lens by means of a pulsating irrigation flow. This ensures the removal of stubborn residues.**
- **The second stage (fully pressed pedal) activates a continuous irrigation flow. This is suitable for filling cavities (i.e. sphenoid cavities) with water. The resulting vessel compression is suitable for controlling minor bleeding.**
- **Two-stage footswitch**

Complete system configuration recommended



40 3341 01

40 3341 01 **CLEARVISION® II Set,** lens irrigation system for endoscopes, power supply 100 – 240 VAC, 50/60 Hz
including:
Mains Cord
One-Pedal Footswitch
Silicone Tubing Set, sterilizable

Optional accessory:
031229-10* **Tubing Set,** sterile, package of 10

Specifications:

Irrigation	min. 30 min with 1 l irrigation liquid non-regulated flow (ml/min): 40
Power Supply	100-240 VAC, 50/60 Hz

Dimensions w x h x d	100 x 180 x 70 mm
Weight	1.5 kg
Certified to	IEC 601-1, CE acc. to MDD

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

4-03₃

CLEARVISION® II

System Components

KARL STORZ — ENDOSKOPE

One-Pedal Footswitch



20 0142 30

UNIT SIDE

PATIENT SIDE



Silicone Tubing Set



40 3341 40

Irrigation Sheath

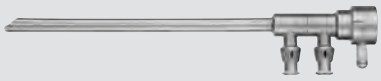


7230 FS

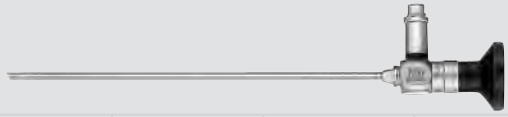
1-03$_2$

Irrigation Sheaths, proximally reinforced for use with Holder 28272 RKB

Irrigation Sheath, proximally reinforced for use with Adjustable Holder 28272 RKB



Compatible HOPKINS® Telescopes



Detail	Order No.	Outer Diameter	Working length	Order No.	View	Outer Diameter	Length
	7207 AS	3.5 x 4.7 mm	7 cm	7207 AA	0°	2.7 mm	11 cm
	7207 BS	3.5 x 4.7 mm	7 cm	7207 BA	30°	2.7 mm	11 cm
	7207 CS	3.5 x 4.7 mm	7 cm	7207 CA	70°	2.7 mm	11 cm
	7220 AS	4.8 x 3.7 mm	10 cm	7220 AA	0°	3 mm	14 cm
	7220 BS	4.8 x 3.7 mm	10 cm	7220 BA	30°	3 mm	14 cm
	7220 FS	4.8 x 3.7 mm	10 cm	7220 FA	45°	3 mm	14 cm
	7220 CS	4.8 x 3.7 mm	10 cm	7220 CA	70°	3 mm	14 cm
	7228 AS	4.8 x 6 mm	11 cm	7228 AA	0°	4 mm	15 cm
	7228 BS	4.8 x 6 mm	11 cm	7228 BA	30°	4 mm	15 cm
	7228 FS	4.8 x 6 mm	11 cm	7228 FA	45°	4 mm	15 cm
	7228 CS	4.8 x 6 mm	11 cm	7228 CA	70°	4 mm	15 cm
	7230 AS	4.8 x 6 mm	14 cm	7230 AA 28132 AA	0°	4 mm	18 cm
	7230 BS	4.8 x 6 mm	14 cm	7230 BA 28132 BA	30°	4 mm	18 cm
	7230 FS	4.8 x 6 mm	14 cm	7230 FA 28132 FA	45°	4 mm	18 cm
	7230 CS	4.8 x 6 mm	14 cm	7230 CA 28132 CA	70°	4 mm	18 cm
	7219 AS	3.5 x 4.7 mm	14 cm	7219 AA 7229 AA	0°	2.7 mm	18 cm
	7219 BS	3.5 x 4.7 mm	14 cm	7219 BA 7229 BA	30°	2.7 mm	18 cm
	7219 FS	3.5 x 4.7 mm	14 cm	7219 FA 7229 FA	45°	2.7 mm	18 cm
	7219 CS	3.5 x 4.7 mm	14 cm	7219 CA 7229 CA	70°	2.7 mm	18 cm

723527 L **Cleaning Tube,** for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

723540 L **Cleaning Tube,** for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm

1-03$_6$

Holding Systems

with KSLOCK, for use with Irrigation Sheaths for CLEARVISION® II System



28272 RKB

28272 RKB **Holding System, autoclavable,** with quick release coupling KSLOCK

including:

Rotation Socket, to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

Articulated Stand, reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)

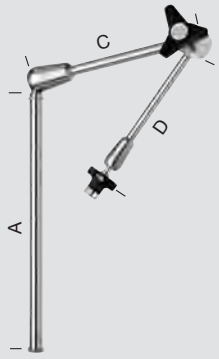
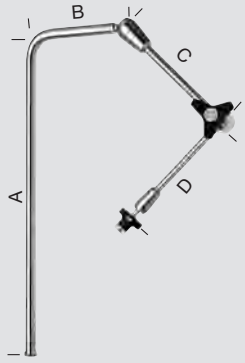
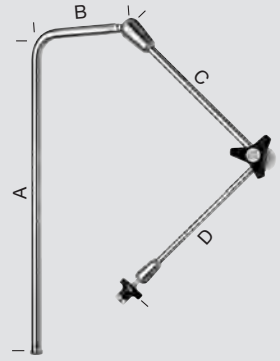
Clamping Jaw, metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths

3-05$_2$

Further holding systems see page 204 and chapter 15, MICROSCOPY

Components/Spare Parts see chapter 16

KS*lock*

Socket	Articulated Stand					
28172 HK	28272 HA		28272 HB		28272 HC	
						
28172 HR	A 30 cm	B –	A 48 cm	B 15 cm	A 48 cm	B 15 cm
	C 20 cm	D 17 cm	C 20 cm	D 17 cm	C 27 cm	D 24 cm

Clamping Jaw	Complete Instrument		
28272 UGN	28272 KGA	28272 KGB	28272 KGC
	28272 RGA	28272 RGB	28272 RGC
	**Clamping Jaw,** metal, with axial intake, for use with all square-headed KARL STORZ Telescopes, clamping range 16.5 up to 23 mm		
28272 UKN	28272 KKA	28272 KKB	28272 KKC
	28272 RKA	28272 RKB	28272 RKC
	**Clamping Jaw,** metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm		
28272 UL	28272 KLA	28272 KLB	28272 KLC
	28272 RLA	28272 RLB	28272 RLC
	**Clamping Jaw,** universal, clamping range 0 – 18 mm		
28272 UF	28272 KFA	28272 KFB	28272 KFC
	28272 RFA	28272 RFB	28272 RFC
	**Clamping Jaw,** for use with all KARL STORZ polymer housing fiberscopes		

Clamping Cylinder		
	28272 C	**Clamping Cylinder,** for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.

7-09



MOTOR SYSTEMS

- NEW **UNIDRIVE® S III ENT SCB**
- NEW **UNIDRIVE® S III ECO**
- NEW **High-Performance EC Micro Motor II**
- NEW **High-Speed Micro Motor**
- NEW **DrillCut-X® II Shaver Handpieces**
- NEW **DrillCut-X® II N Shaver Handpieces**
- **Shaver Blades**
- **Sinus Burrs**
- NEW **INTRA Drill Handpieces**
- **Burrs**
- STAMMBERGER-SACHSE **Intranasal Drill**
- NEW **High-Speed Handpieces**
- NEW **High-Speed Burrs**

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen: Straightforward function selection via touch screen	●	–
Set values of the last session are stored	●	●
Optimized user control due to touch screen	●	–
Choice of user languages	●	–
Operating elements are single and clear to read due to color display	●	–
One unit – multifunctional: – Shaver system for surgery of the paranasal sinuses and anterior skull base – INTRA Drill Handpieces (40,000 rpm and 80,000 rpm) – Sinus Shaver – Micro Saws – STAMMBERGER-SACHSE Intranasal Drill – Dermatome	●	●
– High-Speed Handpieces (60,000 rpm and 100,000 rpm)	●	–
Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor	●	●
Soft start function	●	–
Formulated error messages	●	–
Integrated irrigation and coolant pump: – Absolutely homogeneous, micro-processor controlled irrigation rate throughout the entire irrigation range – Quick and easy connection of the tubing set	●	●
Easy program selection via automated motor recognition	●	●
Continuously variable revolution range	●	●
Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling.	●	●
Maximum number of revolutions can be preset	●	●
SCB model with connections to the KARL STORZ Communication Bus (KARL STORZ-SCB)	●	–
Irrigator rod included	●	–

11-03₄

System specifications

Mode		Order No.	rpm
Shaver mode Operation mode: Max. rev. (rpm):	oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece DrillCut-X® II N Shaver Handpiece	 **40** 7120 50 **40** 7120 55	 10,000* 10,000*
Sinus burr mode Operation mode: Max. rev. (rpm):	rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece DrillCut-X® II N Shaver Handpiece	 **40** 7120 50 **40** 7120 55	 12,000 12,000
High-speed drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: High-Speed Micro Motor	 **20** 7120 33	 60,000/100,000
Drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 40,000/80,000
Micro saw mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 15,000/20,000
Intranasal drill mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 60,000
Dermatome mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	 [**20** 7110 33 **20** 7111 73]	 8,000
Power supply:	100 – 240 VAC, 50/60 Hz		
Dimensions: (w x h x d)	300 x 165 x 265 mm		
Two outputs for parallel connection of two motors			
Integrated irrigation pump: Flow:	 adjustable in 9 steps		

* Approx. 4,000 rpm is recommended as this is the most efficient suction/performance ratio.

	UNIDRIVE® S III ENT SCB	**UNIDRIVE® S III ECO**
Touch Screen:	6,4" / 300 cd/m²	
Weight:	5.2 kg	4.7 kg
Certified to:	IEC 601-1 CE acc. to MDD	IEC 60601-1
Available languages:	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian	numerical codes

3-05₃

Special features of high-performance EC micro motor II:

- **Self-cooling, brushless high-performance EC micro motor**
- **Smallest possible dimensions**
- **Autoclavable**
- **Can be processed in a cleaning machine**
- **Detachable connecting cable**
- **INTRA coupling enables a wide variety of applications**
- **Maximum torque 4 Ncm**
- **Number of revolutions can be continuously adjusted up to 40,000 rpm**
- **Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle**



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II,** for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable **20** 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable **20** 7111 73



20 7111 73 **Connecting Cable,** to connect High-Performance EC Micro Motor **20** 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- **Brushless high-speed micro motor**
- **Smallest possible dimensions**
- **Autoclavable**
- **Can be processed in a cleaning machine**
- **Maximum torque 6 Ncm**
- **Number of revolutions can be continuously adjusted up to 60,000 rpm**
- **Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle**



20 7120 33

20 7120 33 **High-Speed Micro-Motor,** max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB, NEW
UNIDRIVE® S III ECO

Recommended System Configuration

KARL STORZ — ENDOSKOPE

UNIDRIVE® S III ENT SCB



40 7016 20-1

UNIDRIVE® S III ECO



40 7014 20

40 7016 01-1 **UNIDRIVE® S III ENT SCB,** motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
Irrigator Rod
Two-Pedal Footswitch, two-stage, with proportional function
Silicone Tubing Set, for irrigation, sterilizable
Clip Set, for use with silicone tubing set **20** 7116 40
SCB Connecting Cable, length 100 cm
Single Use Tubing Set*, sterile, package of 3

40 7014 01 **UNIDRIVE® S III ECO,** motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
Two-Pedal Footswitch, two-stage, with proportional function
Silicone Tubing Set, for irrigation, sterilizable
Clip Set, for use with silicone tubing set **20** 7116 40
Single Use Tubing Set*, sterile, package of 3

Specifications:

Touch Screen	UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m²	Dimensions w x h x d	300 x 165 x 265 mm
Flow	9 steps	Weight	5.2 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

4-033

UNIDRIVE® S III ENT SCB, NEW
UNIDRIVE® S III ECO

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch



20 0166 30

Silicone Tubing Set



20 7116 40

UNIT SIDE

PATIENT SIDE





High-Speed Micro-Motor



20 7120 33

High-Performance EC Micro Motor II



20 7110 33
20 7111 73

DrillCut-X® II Shaver Handpiece, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 50

DrillCut-X® II N Shaver Handpiece, with adaption possibilities for Shaver Tracker, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 55

High-Speed Handpiece



252660 – 252692

INTRA Drill Handpiece



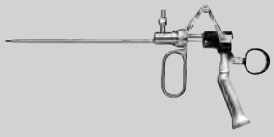
252575 – 252590

Shaver Blade



41201 KN

Intranasal Drill



660000

Shaver Blade, curved



41302 KN

Sinus Burr



41305 DN

4-034

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO

KARL STORZ — ENDOSKOPE



280053	**Universal Spray,** 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950 including: **Spray Nozzle**
280053 C	**Spray Nozzle,** for the reprocessing of INTRA burr handpieces, for use with Universal Spray 280053 B



031131-10*	**Tubing Set,** for irrigation, for single use, sterile, package of 10

11-05₂

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

DrillCut-X® Shaver Handpieces NEW

Special Features

KARL STORZ — ENDOSKOPE

Special Features:	DrillCut-X® II 40 712050	DrillCut-X® II N 40 712055
Max. 10,000 rpm for shaver blades, max. 12,000 rpm for sinus shaver	●	●
Straight suction channel	●	●
Integrated irrigation channel	●	●
Powerful motor, also suitable for harder materials	●	●
Absolutely silent running, no vibration	●	●
Completely immersible and machine-washable	●	●
Rapid coupling allows fixation of shaver blades and sinus shavers	●	●
Extremely lightweight design	●	●
Optional, ergonomic handle, detachable	●	●
Can be adapted to navigation tracker	–	●



40 7120 50

40 7120 50 **DrillCut-X® II Shaver Handpiece,** for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 55

40 7120 55 **DrillCut-X® II N Shaver Handpiece,** with adaption possibilities for Shaver Tracker **40** 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO

8-11₁

DrillCut-X® II Shaver Handpieces NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Powerful motor**
- **Absolutely silent running**
- **Enhanced ergonomics**
- **Reduced weight design**
- **Oscillation mode for shaver blades, max. 10,000 rpm**
- **Rotation mode for sinus shavers, max. 12,000 rpm**
- **Straight suction channel and integrated irrigation**
- **Variable handle allows connection with various handpieces and enables more comfortable work**
- **Easy hygienic processing, suitable for use in washer and autoclavable at 134° C**
- **Quick coupling mechanism facilitates more rapid exchange of work inserts**
- **Proven DrillCut-X® blade portfolios can be used**



40 7120 50

40 7120 50 **DrillCut-X® II Shaver Handpiece,** for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle,** adjustable, for use with DrillCut-X® II **40** 7120 50 and DrillCut-X® II N **40** 7120 55

Optional Accessory:



41250 RA

41250 RA **Cleaning Adaptor,** LUER-Lock, for cleaning DrillCut-X® shaver handpieces

8-11

DrillCut-X® II N Shaver Handpieces NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Powerful motor**
- **Absolutely silent running**
- **Enhanced ergonomics**
- **Reduced-weight design**
- **Oscillation mode for shaver blades, max. 10,000 rpm**
- **Rotation mode for sinus shavers, max. 12,000 rpm**
- **Straight suction channel and integrated irrigation**
- **Variable handle allows connection with various handpieces and enables more comfortable work**
- **Easy hygienic processing, suitable for use in washer and autoclavable at 134° C**
- **Quick coupling mechanism facilitates more rapid exchange of working inserts**
- **Proven DrillCut-X® blade portfolios can be used**
- **Adaptation possibilities for Shaver Tracker 40 8001 22**
- **Allows shaver navigation when used with NPU 40 8000 01**



40 7120 55

40 7120 55 **DrillCut-X® II N Shaver Handpiece,** with adaption possibilities for Shaver Tracker **40** 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle,** adjustable, for use with DrillCut-X® II **40** 7120 50 and DrillCut-X® II N **40** 7120 55

Optional Accessory:



41250 RA

41250 RA **Cleaning Adaptor,** LUER-Lock, for cleaning DrillCut-X® shaver handpieces

8-11

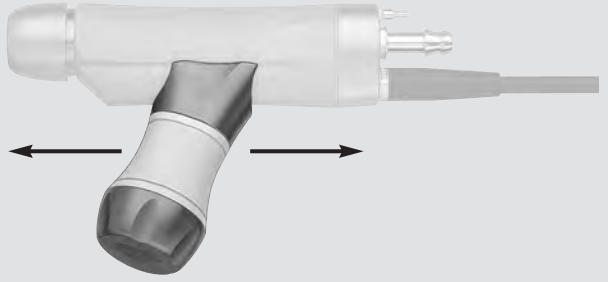
Handle NEW for DrillCut-X® II Shaver Handpiece

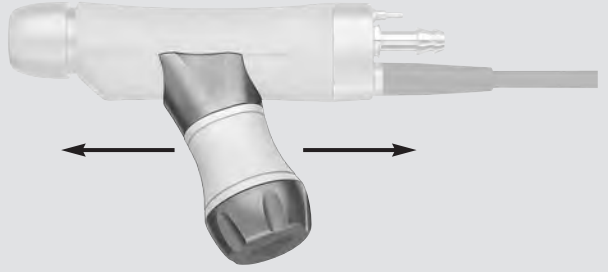
for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

KARL STORZ — ENDOSKOPE

Special Features:

- **Ergonomic design**
- **Ultralight construction**
- **Easy handle control allows individual adjustment**
- **Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces**
- **Easy fixation via rotary lock**
- **Easy hygienic processing, suitable for use in washer and autoclavable at 134 °C**







40 7120 90

40 7120 90 **Handle,** adjustable, for use with DrillCut-X® II **40** 7120 50 and DrillCut-X® II N **40** 7120 55

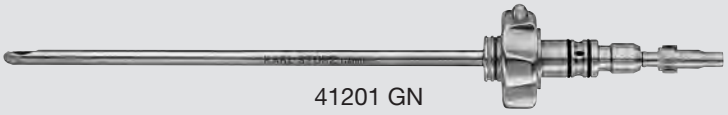
8-11

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N



41201 GN





Shaver Blades, straight, sterilizable

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41201 KN	serrated cutting edge, diameter 4 mm, color code: blue-red
	41201 KK	double serrated cutting edge, diameter 4 mm, color code: blue-yellow
	41201 GN	concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green
	41201 LN	concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black
	41201 SN	straight cutting edge, diameter 4 mm, color code: blue-blue
	41201 KSA	serrated cutting edge, diameter 3 mm, color code: blue-red
	41201 KKSA	double serrated cutting edge, diameter 3 mm, color code: blue-yellow
	41201 KKSB	double serrated cutting edge, diameter 2 mm, color code: blue-yellow
	41201 LSA	concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black

Optional Accessory:



41200 RA **Cleaning Adaptor,** LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

3-13

Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

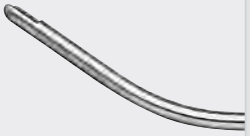
For use with DrillCut-X® II and DrillCut-X® II N



41204 KKB



Shaver Blades, curved 35°/40°, sterilizable

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41202 KN	curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41204 KKF	curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41204 KKB	curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41204 KKFA	curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41204 KKBA	curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow

Optional Accessory:



41200 RA **Cleaning Adaptor,** LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

3-13

Components/Spare Parts see chapter 16

Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N



41203 KKF





Shaver Blades, curved 65°, sterilizable

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41203 KNF	curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red
	41203 KNB	curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41203 KKF	curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41203 KKB	curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41203 KKFA	curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41203 KKBA	curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow
	41203 GNF	curved 65°, concave cutting edge, oval cutting window, forward opening, diameter 4 mm, color code: blue-green
	41203 GNB	curved 65°, concave cutting edge, oval cutting window, backward opening, diameter 4 mm, color code: blue-green

Optional Accessory:



41200 RA **Cleaning Adaptor,** LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

3-13

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N



41301 KK





Shaver Blades, straight, for single use, sterile, package of 5

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41301 KN	serrated cutting edge, diameter 4 mm, color code: blue-red
	41301 KK	double serrated cutting edge, diameter 4 mm, color code: blue-yellow
	41301 GN	concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green
	41301 LN	concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black
	41301 SN	straight cutting edge, diameter 4 mm, color code: blue-blue
	41301 KSA	serrated cutting edge, diameter 3 mm, color code: blue-red
	41301 KKSA	double serrated cutting edge, diameter 3 mm, color code: blue-yellow
	41301 KKSB	double serrated cutting edge, diameter 2 mm, color code: blue-yellow
	41301 LSA	concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black

3-13

Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N

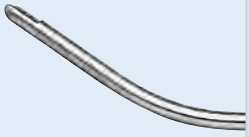
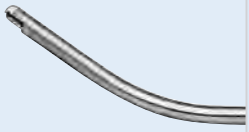
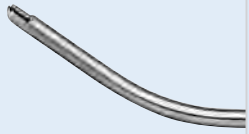
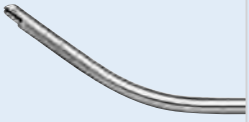
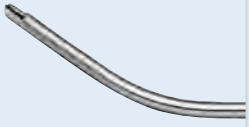


41302 KN





Shaver Blades, curved 35°/40°, for single use, sterile, package of 5

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41302 KN	curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41304 KKF	curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41304 KKB	curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41304 KKFA	curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41304 KKBA	curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow

3-13

Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N

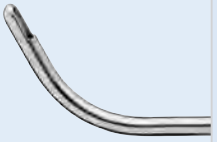
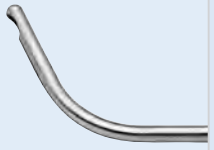
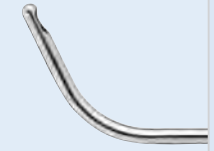


41303 KKB





Shaver Blades, curved 65°, for single use, sterile, package of 5

Detail	for use with **40** 7120 50 **DrillCut-X® II Handpiece** **40** 7120 55 **DrillCut-X® II N Handpiece**	**Shaver Blade** length 12 cm
	41303 KNF	curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red
	41303 KNB	curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41303 KKF	curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41303 KKB	curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41303 KKFA	curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41303 KKBA	curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow
	41303 GNF	curved 65°, cutting edge concave forwards, oval cutting window, diameter 4 mm, color code: blue-green
	41303 GNB	curved 65°, cutting edge concave backwards, oval cutting window, diameter 4 mm, color code: blue-green

3-13

Sinus Burrs, curved

for Nasal Sinuses and Skull Base Surgery

KARL STORZ — ENDOSKOPE

For use with DrillCut-X® II and DrillCut-X® II N

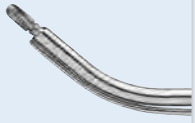
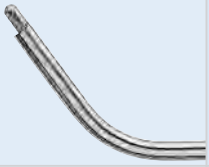
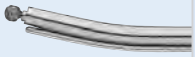
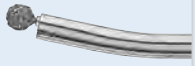


41305 RN



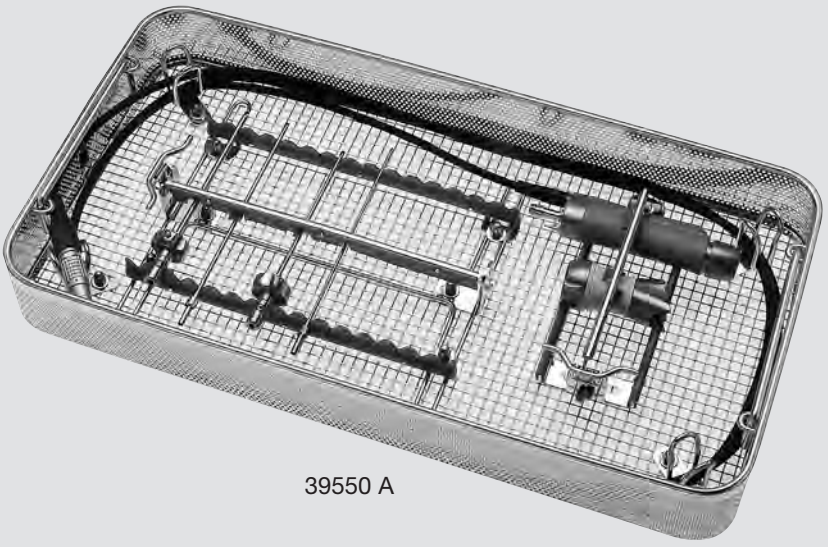


Sinus Burrs, curved 70°/55°/40°/15°, for single use, sterile, package of 5

Detail	for use with **40 7120 50 DrillCut-X® II Handpiece** **40 7120 55 DrillCut-X® II N Handpiece**	**Sinus Burr** length 12 cm
	41304 W	curved 40°, cylindric, drill diameter 3 mm, shaft diameter 4 mm, color code: red-blue
	41303 WN	curved 55°, cylindric, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-blue
	41305 RN	curved 15°, bud drill, drill diameter 4 mm, shaft diameter 4 mm, color code: red-black
	41305 DN	curved 15°, diamond head, drill diameter 3 mm, shaft diameter 4 mm, color code: red-yellow
	41305 D	curved 15°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow
	41305 DW	curved 40°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow
	41303 DT	curved 70°, diamond head, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-yellow

3-13

Accessories for Shaver



39550 A

39550 A **Wire Tray,** provides safe storage of accessories for KARL STORZ paranasal sinus shaver systems during cleaning and sterilization

for storage of:

– Up to 7 shaver attachments
– Connecting cable

11-05

Please note: The instruments displayed are not included in the sterilizing and storage tray.

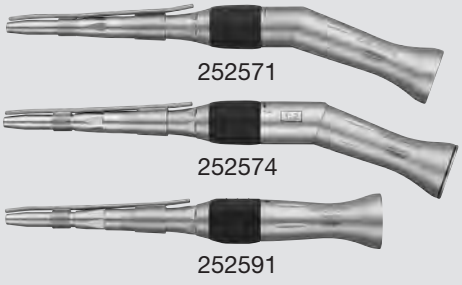
INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

KARL STORZ — ENDOSKOPE

Special Features:

- **Tool-free closing and opening of the drill**
- **Right/left rotation**
- **Max. rotating speed up to 40,000 or 80,000 rpm**
- **Detachable irrigation tubes**
- **Lightweight construction**
- **Low-vibration operation**
- **Low maintenance**
- **Can be processed in a cleaning machine**
- **Safe grip**



252571 **INTRA Drill Handpiece,** angled, length 15 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs

252574 **Same,** transmission 1:2 (80,000 rpm)

252591 **INTRA Drill Handpiece,** straight, length 13 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



649600 – 649770 G

Detail	Size	Dia. mm	Standard	Diamond	Diamond coarse
	014	1.4	649614	649714	–
	018	1.8	649618	649718	–
	023	2.3	649623	649723	649723 G
	027	2.7	649627	649727	649727 G
	031	3.1	649631	649731	649731 G
	035	3.5	649635	649735	649735 G
	040	4	649640	649740	649740 G
	045	4.5	649645	649745	649745 G
	050	5	649650	649750	649750 G
	060	6	649660	649760	649760 G
	070	7	649670	649770	649770 G

649600 **Standard Straight Shaft Burr,** stainless, size 014 – 070, length 9.5 cm, set of 11

649700 **Diamond Straight Shaft Burr,** stainless, size 014 – 070, length 9.5 cm, set of 11

649700 G **Rapid Diamond Straight Shaft Burr,** stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, size 023 – 070, length 9.5 cm, set of 9, color code: gold

280033 **Rack,** for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209

3-13

INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

KARL STORZ — ENDOSKOPE

Special Features:

- **Tool-free closing and opening of the drill**
- **Right/left rotation**
- **Max. rotating speed up to 40,000 or 80,000 rpm**
- **Detachable irrigation tubes**
- **Lightweight construction**
- **Low-vibration operation**
- **Low maintenance**
- **Can be processed in a cleaning machine**
- **Safe grip**



252572 **INTRA Drill Handpiece,** angled, length 18 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and burrs

252575 **Same,** transmission 1:2 (80,000 rpm)

252592 **INTRA Drill Handpiece,** straight, length 17 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



649600 L – 649770 GL

Detail	Size	Dia. mm	Standard	Diamond	Diamond coarse
			sterilizable	sterilizable	sterilizable
	014	1.4	649614 L	649714 L	–
	018	1.8	649618 L	649718 L	–
	023	2.3	649623 L	649723 L	649723 GL
	027	2.7	649627 L	649727 L	649727 GL
	031	3.1	649631 L	649731 L	649731 GL
	035	3.5	649635 L	649735 L	649735 GL
	040	4	649640 L	649740 L	649740 GL
	045	4.5	649645 L	649745 L	649745 GL
	050	5	649650 L	649750 L	649750 GL
	060	6	649660 L	649760 L	649760 GL
	070	7	649670 L	649770 L	649770 GL

649600 L **Standard Straight Shaft Burr,** stainless, size 014 – 070, length 12.5 cm, set of 11

649700 L **Diamond Straight Shaft Burr,** stainless, size 014 – 070, length 12.5 cm, set of 11

649700 GL **Rapid Diamond Straight Shaft Burr,** stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, sizes 023 – 070, length 12.5 cm, set of 9, color code: gold

280034 **Rack,** for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm

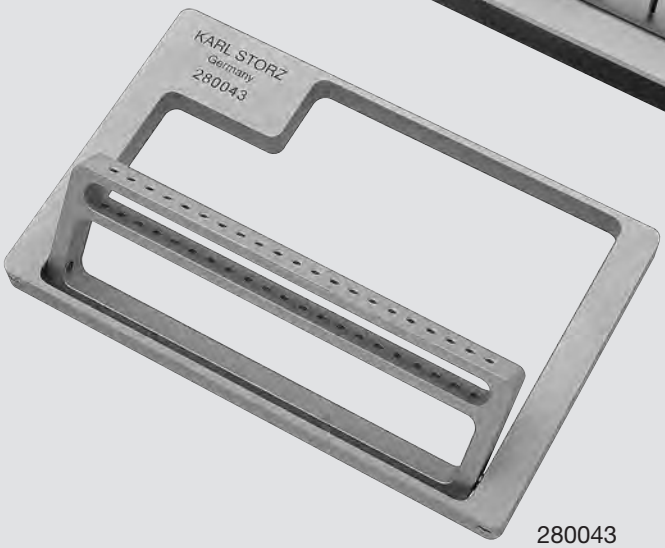
3-13

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209

Accessories for Burrs



280033
280034



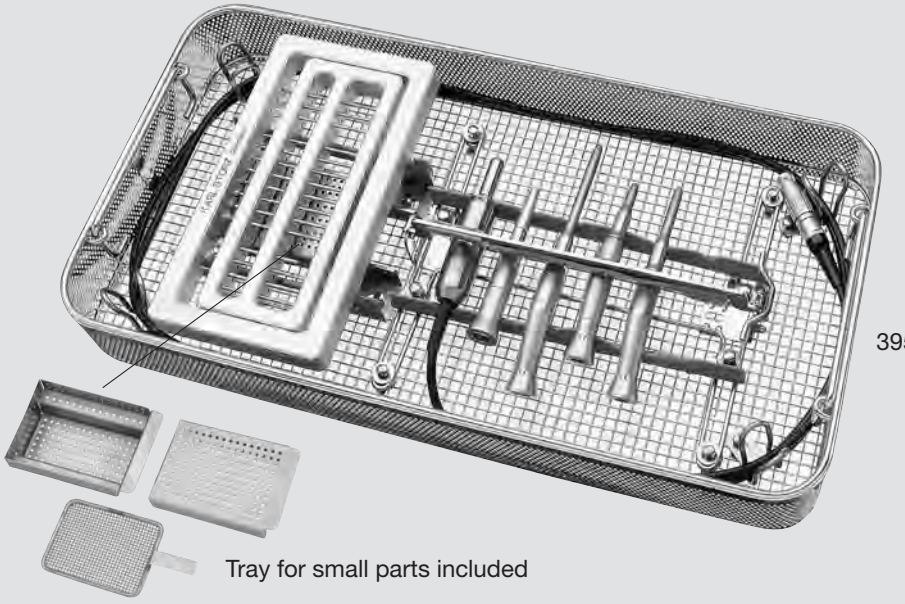
280043

	280033	**Rack,** for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
	280034	**Rack,** for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
NEW	280043	**Rack,** flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

11-05

Please note: The burrs displayed are not included in the racks.

Accessories for Burrs



39552 B

Tray for small parts included

39552 A **Wire Tray,** provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included

for storage of:

– Up to 6 drill handpieces
– Connecting cable
– EC micro motor
– Small parts

39552 B **Wire Tray,** provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**

for storage of:

– Up to 6 drill handpieces
– Connecting cable
– EC micro motor
– Up to 36 drill bits and burrs
– Small parts

11-05

Please note: The instruments displayed are not included in the sterilizing and storage tray.

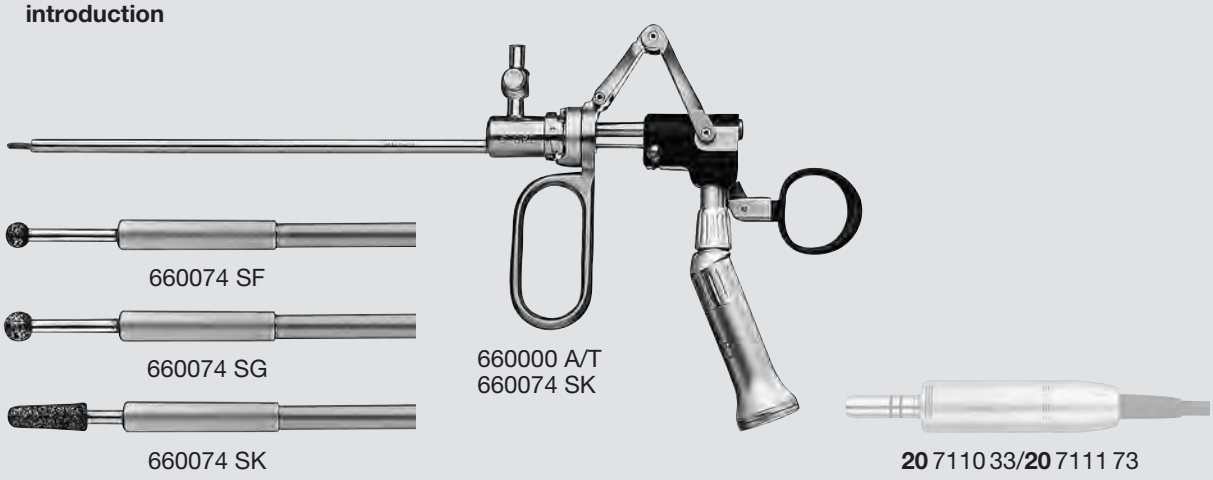
STAMMBERGER-SACHSE **Intranasal Drill**

for fine grinding work in Ethmoidal Skull Base Area and for Optic Nerve Decompression

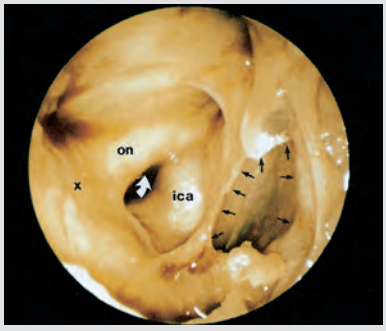
KARL STORZ — ENDOSKOPE

Special Features:

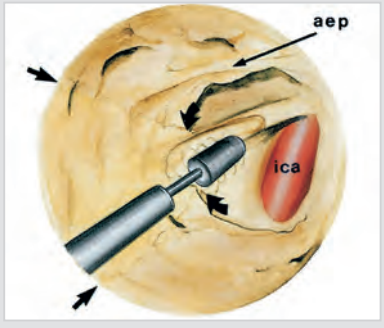
- **Allows atraumatic grinding of the osseous canal of the optic nerve under endoscopic control**
- **Direct endoscopic view of diamond abradors and operation area**
- **No fixed coupling to the endoscope makes independent manipulation possible**
- **The abrador is retracted into the guide sheath for protection of tissue and endoscope during introduction**
- **Pressure on the sliding handle enables controlled advance of the abrador and precise grinding work under endoscopic control**
- **The guide sheath remains stationary; only the abradors rotate**
- **No damage to mucous membrane due to unprotected rotating drive mechanisms**



660000	STAMMBERGER-SACHSE **Intranasal Drill,** for decompression of the optic nerve and for fine grinding work in ethmoidal skull base area, for use with EC micro motor
	including:
	Double Ring Sliding Handle, for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece
	Guide Sheath, outer diameter 5 mm, with irrigation stopcock
	Diamond Abrador, delicate, spherical, diameter 2.5 mm
	Diamond Abrador, delicate, spherical, diameter 3 mm
	Diamond Abrador, delicate, conical, from diameter 2.5 mm to diameter 3 mm



ica *= Arteria carotis interna*
aep *= Arteria ethmoidalis posterior*



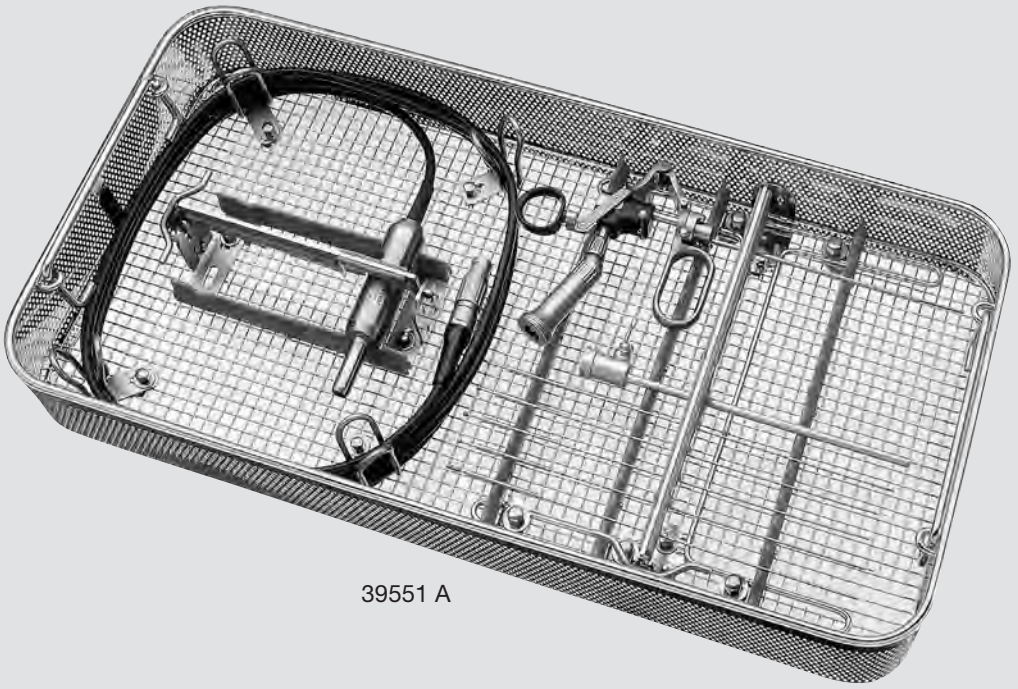
on *= Nervus opticus*
x *= Tuberculum opticum*



z *= Anulus zinnii*

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209
Components/Spare Parts see chapter 16

3-13



39551 A

39551 A **Wire Tray,** provides safe storage of accessories for the KARL STORZ intranasal drill system during cleaning and sterilization

for storage of:

– Intranasal drill
– Connecting cable
– EC micro motor
– Up to 10 diamond abradors

11-05

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB NEW

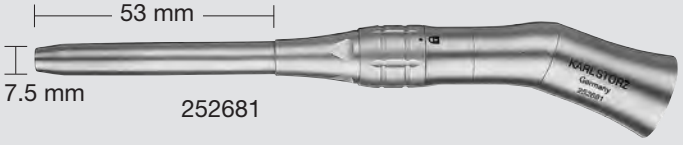
High-Speed Handpieces, angled, 100,000 rpm

100,000 rpm
diameter 7.5 mm

For use with High-Speed Drills, shaft diameter 3.17 mm and with High-Speed Micro Motor 20 7120 33



20 7120 33



252681



252682

252681	**High-Speed Handpiece,** medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252682	**High-Speed Handpiece,** long, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Handpieces, angled, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



20 7120 33







252661	**High-Speed Handpiece,** short, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252662	**High-Speed Handpiece,** medium, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252663	**High-Speed Handpiece,** long, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Handpieces, straight, 60,000 rpm

60,000 rpm
diameter 5.5 mm

For use with High-Speed Drills, shaft diameter 2.35 mm and with High-Speed Micro Motor 20 7120 33



20 7120 33



252691



252692

252691	**High-Speed Handpiece,** short, straight, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252692	**High-Speed Handpiece,** medium, straight, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

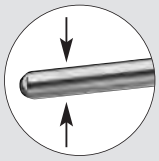
3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Handpieces, malleable, slim, angled, 60,000 rpm

60,000 rpm
diameter 4.7 mm

For use with High-Speed Drills, shaft diameter 1 mm and with High-Speed Micro Motor 20 7120 33



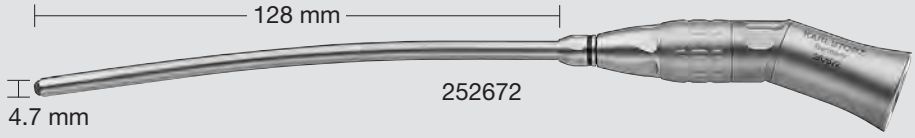
malleable

The handpieces have malleable shafts that can be bent up to 20° according to user requirements.



20 7120 33





252671	**High-Speed Handpiece,** extra long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33
252672	**High-Speed Handpiece,** super long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor **20** 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

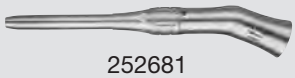
3-13

UNIDRIVE® S III ENT SCB NEW

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Standard Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium	long
1	350110 M	–
2	350120 M	350120 L
3	350130 M	350130 L
4	350140 M	350140 L
5	350150 M	350150 L
6	350160 M	350160 L
7	350170 M	350170 L



High-Speed Diamond Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium	long
1	350210 M	–
2	350220 M	350220 L
3	350230 M	350230 L
4	350240 M	350240 L
5	350250 M	350250 L
6	350260 M	350260 L
7	350270 M	350270 L

3-13

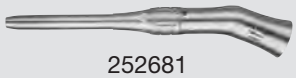
UNIDRIVE® S III ENT SCB NEW

**High-Speed Diamond Burrs, High-Speed Acorn,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burrs**

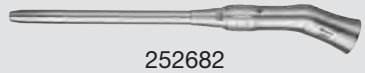
KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Coarse Diamond Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium	long
3	350330 M	350330 L
4	350340 M	350340 L
5	350350 M	350350 L
6	350360 M	350360 L
7	350370 M	350370 L



High-Speed Acorn, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium
7.5	350675 M
9	350690 M



High-Speed Barrel Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium
6	350960 M
9.1	350991 M



High-Speed Neuro Fluted Burrs, 100,000 rpm, for single use, sterile, package of 5

Diameter in mm	medium	long
1.8	350718 M	350718 L
3	350730 M	350730 L

3-13

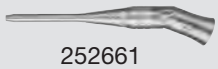
UNIDRIVE® S III ENT SCB NEW

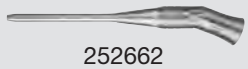
High-Speed Standard Burrs, High-Speed Diamond Burrs

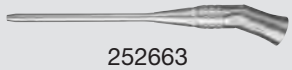
KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm


252661


252662


252663


252691


252692





High-Speed Standard Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium	long
1	330110 S	330110 M	–
2	330120 S	330120 M	330120 L
3	330130 S	330130 M	330130 L
4	330140 S	330140 M	330140 L
5	330150 S	330150 M	330150 L
6	330160 S	330160 M	330160 L
7	330170 S	330170 M	330170 L



High-Speed Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium	long
0.6	330206 S	–	–
1	330210 S	330210 M	–
1.5	330215 S	–	–
2	330220 S	330220 M	330220 L
3	330230 S	330230 M	330230 L
4	330240 S	330240 M	330240 L
5	330250 S	330250 M	330250 L
6	330260 S	330260 M	330260 L
7	330270 S	330270 M	330270 L

3-13

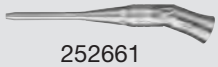
UNIDRIVE® S III ENT SCB NEW

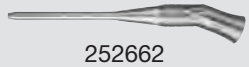
High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN **High-Speed Fluted Burrs**

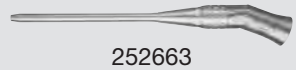
KARL STORZ — ENDOSKOPE

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm


252661


252662


252663


252691


252692



High-Speed Coarse Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	short	medium	long
3	330330 S	330330 M	330330 L
4	330340 S	330340 M	330340 L
5	330350 S	330350 M	330350 L
6	330360 S	330360 M	330360 L
7	330370 S	330370 M	330370 L



High-Speed Cylinder Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	short
4	330440 S
6	330460 S

LINDEMANN **High-Speed Fluted Burrs, 60,000 rpm, for single use, sterile, package of 5**

Size in mm (diameter x length)	short
Diameter 2.1/11	330511 S
Diameter 2.3/26	330526 S

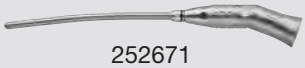
3-13

UNIDRIVE® S III ENT SCB NEW

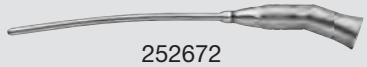
High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 4.7 mm



252671



252672



High-Speed Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra long	super long
2	320220 EL	320220 SL
3	320230 EL	320230 SL
4	320240 EL	320240 SL



High-Speed Coarse Diamond Burrs, 60,000 rpm, for single use, sterile, package of 5

Diameter in mm	extra long	super long
2	320320 EL	320320 SL
3	320330 EL	320330 SL
4	320340 EL	320340 SL

3-13

CMOS Video Rhino-Laryngoscope NEW

KARL STORZ — ENDOSKOPE

The **CMOS video rhino-laryngoscope** features a compact and mobile solution thanks to its integrated light source and camera control unit.
Combined with the lightweight Monitor 8402 ZX and our KARL STORZ C-HUB® system, the **CMOS video rhino-laryngoscope** provides a convenient and fast solution for the doctor's office, house calls or consultation purposes.

Special Features:

- **Mobility thanks to all-in-one solution – the lightweight monitor combined with the CMOS video rhino-laryngoscope offer quick installation and great flexibility**
- **CMOS chip technology for good image quality**
- **Optimal field of view for excellent visualization of pathologies**
- **Large angle of view for optimal orientation**
- **Integrated LED light source for optimal illumination**
- **Bidirectional deflection 140°**
- **Function keys on the endoscope enable more comprehensive use. This enables the quick and convenient recording of pictures and video sequences as well as the use of the white balance function for monitoring image quality. These and other functions can be activated on the monitor.**
- **Can be combined with KARL STORZ C-HUB® system**
- **Sensitive yet robust control through ergonomic handle**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Sterilizable via EtO-Gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E**

Special Features of Monitor:

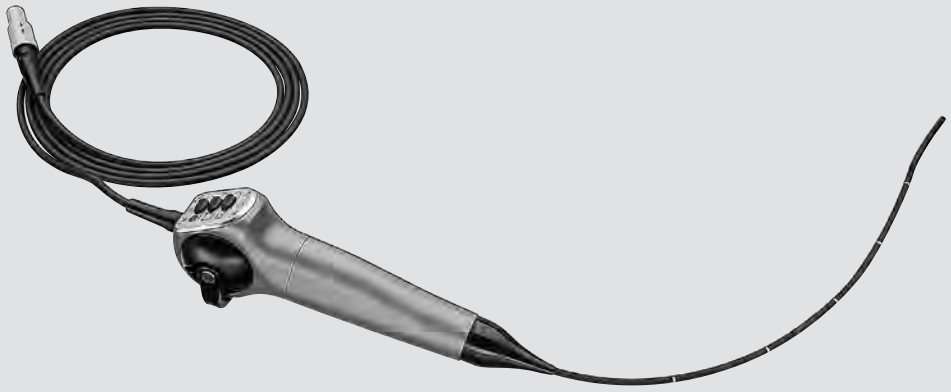
- **Compact design**
- **Image can be rotated by 180°**
- **7" TFT wide-view angle display with resolution of 800 x 480 pixels**
- **Resistant ABS plastic housing**
- **LED illumination**
- **Documentation of video sequences (MPEG4) and images (JPEG) on SD memory card**
- **Replay of recorded video sequences and images via monitor**
- **Cinch video output for connecting external monitor**
- **Operation with line voltage and rechargeable lithium-ion batteries – also possible during charging**
- **Operating time with batteries for about 2 hours**
- **VESA 75 norm for connecting and attaching further accessories**
- **Splash-proof according to IP54**



8-11

CMOS Video Rhino-Laryngoscope NEW

KARL STORZ — ENDOSKOPE



11101 CM

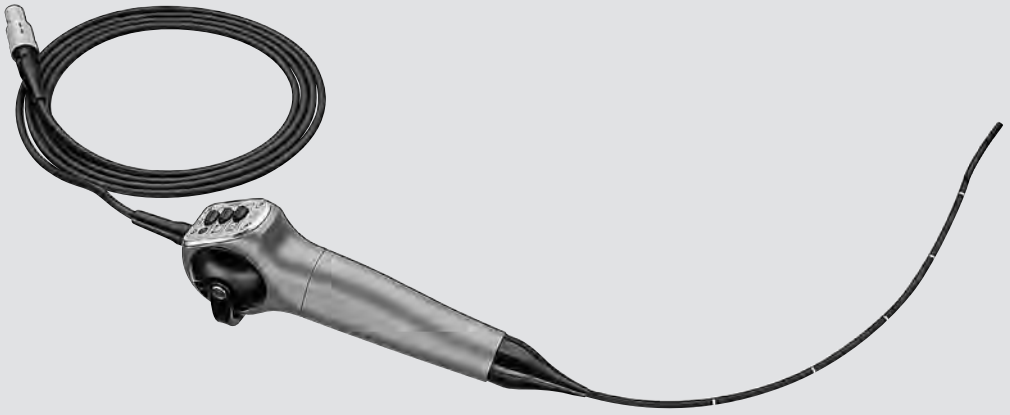
11101 CMK	**CMOS Video Rhino-Laryngoscope KIT**	
	for use with Monitor 8402 ZX	
	Direction of view:	0°
	Angle of view:	85°
	Working length:	30 cm
	Outer diameter:	3.7 mm
	Deflection up/down:	140°/140°

Following accessories are included:

11101 CM	**CMOS Video-Rhino-Laryngoskop**
13242 XL	**Leakage Tester,** with bulb and manometer
11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization
27677 FV	**Case**

8-11

CMOS Video Rhino-Laryngoscope NEW



11101 CM



8402 ZX

11101 CMM	**CMOS Video Rhino-Laryngoscope with Monitor**	
	Direction of view:	0°
	Angle of view:	85°
	Working length:	30 cm
	Outer diameter:	3.7 mm
	Deflection up/down:	140°/140°

Following accessories are included:

11101 CMK	**CMOS Video Rhino-Laryngoscope KIT**
8402 ZX	**Monitor für CMOS-Endoskope**

8-11

C-CAM® and C-HUB®

Nothing could be easier!

How can a standard doctor's office with table, chair and computer be converted into an effective examination room with an endoscope and a camera? Quite simple: The KARL STORZ C-CAM® can be directly connected to a USB interface on a Medical PC via C-HUB®.

Thanks to its CMOS sensor, the C-CAM® camera head is able to provide a resolution of 640 x 480 pixels. The endoscope can be attached as usual with the proven KARL STORZ grip mechanism.

C-HUB® features an USB interface that can be connected to all Medical PCs, whether desktops or laptops.

It also features an S-Video connection for direct transmission of image data to an external monitor.

If the C-HUB® is connected to a Medical PC, image data or videos can be directly archived on the hard drive and processed with the relevant programs.

All in all, the KARL STORZ C-CAM® in conjunction with C-HUB® offers an effective possibility to perform fast and easy endoscopic examinations in any practice.



20 2901 01

20 2901 01	**C-HUB® Camera Control Unit**

for use with C-CAM® **20** 2901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, interfaces: USB 2.0, S-Video output (NTSC), power socket

including:

C-HUB® Power Supply

S-Video (Y/C) Connecting Cable

USB Connecting Cable



20 2901 32

20 2901 32	**C-CAM® Camera Head, 8-pin**

one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with C-HUB® **20** 2901 01 and C-MAC® 8402 ZX

8-11

Further information to C-CAM® and C-HUB® see catalog TELEPRESENCE

Components/Spare Parts see catalog TELEPRESENCE

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

KARL STORZ — ENDOSKOPE

Special Features:

- Large viewing angle and movable distal tip facilitates orientation
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Excellent optical quality – of both lens system and video chip
- Superior life span due to robust mechanical design
- Sensitive and stable control via ergonomic handle
- Short insertion tip with smooth-running and non-twisting angle mechanism
- Optimally matched, non-rotational insertion sheath



8-11

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

KARL STORZ — ENDOSKOPE



11101 VP

11101 VP **CCD Video Rhino-Laryngoscope, PAL,** for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

Direction of view:	0°
Angle of view:	85°
Deflection up/down:	140°/140°
Working length:	30 cm
Outer diameter:	3.7 mm

Following accessories are included:

27677 VC **Case**

13242 XL **Leakage Tester,** with bulb and manometer

11025 E **Pressure Compensation Cap,** for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

22 2000 77 **Video Endoscope Adaptor,** color systems **PAL/NTSC,** length 90 cm, for use with GI CCU and IMAGE1

or

20 2130 70 **Video Connecting Cable,** for all KARL STORZ video endoscopes and TELECAM SL II, TELECAM DX II, TELE PACK or TELE PACK X, length 60 cm

3-07$_2$

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Rhino-Laryngoscope

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source.

Consideration has also been given to documentation: Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Crystal clear display

- **15" LCD display**
- **Image rotation**
- **24-bit color intensity for natural color rendition**
- **DVI-D video output for connecting HD monitors**

Flexible storage possibilities

- **SD card slot for high storage capacity**
- **USB ports for external hard drives, USB flash drives and post-script printers**
- **Picture gallery for records**
- **Playback of saved videos**
- **Print-ready patient report documentation**

Natural illumination

- **HiLux 50 Watt high-performance light source**
- **Natural colour rendition close to daylight with a color temperature of 5700 K**
- **Up to 1000 hours lamp operating time**

Easy control combined with highest safety

- **Membrane keyboard for wipe-down disinfection**
- **Hot keys for rapid and direct adjustment**
- **Arrow keys for intuitive control**
- **Connection socket for pedal control**

Additional information

- **Sturdy, portable housing**
- **Ergonomically designed handle for convenient transport**
- **Universal power supply unit: 100 – 240 VAC, 50/60 Hz**
- **Dimensions (w x h x d): 450 x 350 x 150 mm**
- **Weight: 7 kg**



20 045001-EN

20 0450 01-EN **TELE PACK X**

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC,** with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

3-07$_2$

Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Rhino-Fiberscopes

Special Features:

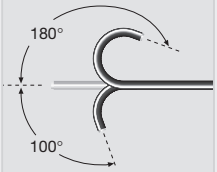
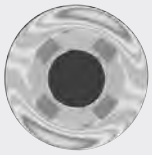
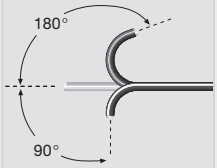
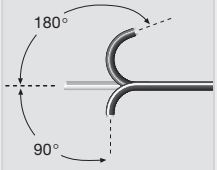
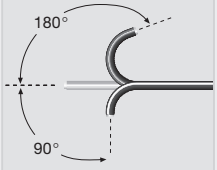
- **Large viewing angle and movable distal tip for better orientation**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Simple leakage test takes only a few minutes and requires no additional accessories**
- **Sterilizable with EtO gas, Steris® and Sterrad®**
- **Exceptional optical quality of both lens and fiber optic image transmission bundle**
- **Superior life span due to robust mechanical design**



3-99$_{1}$

Rhino-Fiberscopes

Overview

Rhino-Fiberscopes	Order No.		Deflection	Direction of View	Direction of View
3.5 x 340 mm 	11001 RD			0°	90°
3.5 x 300 mm 	11101 RP			0°	70°
2.5 x 270 mm 	11101 SK			0°	90°
2.5 x 370 mm 	11101 SP			0°	90°

Following accessories are included:



27677 BB	**Case**
27677 RR	**Case**
11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization
13242 XL	**Leakage Tester,** with bulb and manometer
13272	**Mouthpiece**
27651 AK	**Cleaning Brush,** round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm
11003 KA	**Biopsy Forceps,** flexible, double action jaws, oval, diameter 1 mm, length 60 cm
11003 KB	**Grasping Forceps,** flexible, double action jaws, diameter 1 mm, length 60 cm

11-98₄

Working Length	Working Channel Inner Diameter	Distal Tip Outer Diameter	Case	Accessories included: Pressure Compensation Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
34 cm	1.5 mm	3.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 KA	11003 KB
30 cm	–	3.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
27 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
37 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–

Optional accessories:



15006 B



15006 C


15006 D

15006 B “ULTRA STOP” **Antifog Solution,** 25 ml, pipette bottle

15006 C “ULTRA STOP” **Antifog Solution,** 30 ml, sterile, pierce bottle

15006 D “ULTRA STOP” **Antifog Solution,** 15 ml, atomizer bottle

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ENDOCAMELEON® ENT NEW

KARL STORZ — ENDOSKOPE



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ENDOCAMELEON® ENT NEW

KARL STORZ — ENDOSKOPE

EndoCAMeleon® ENT

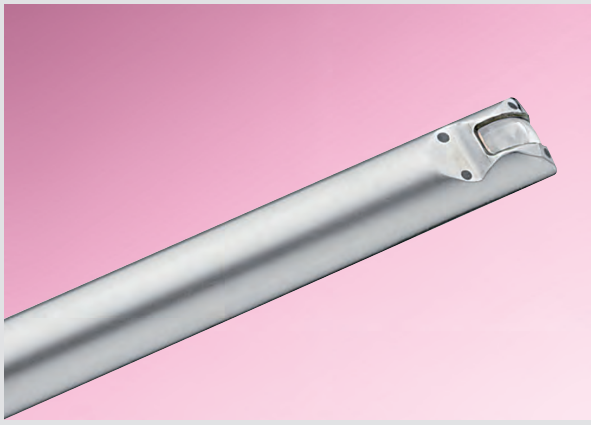
Lightweight – Ergonomic – Elegant

ENDOCAMELEON® ENT is the newest member of the HOPKINS® family of rod-lens telescopes – and the most versatile.

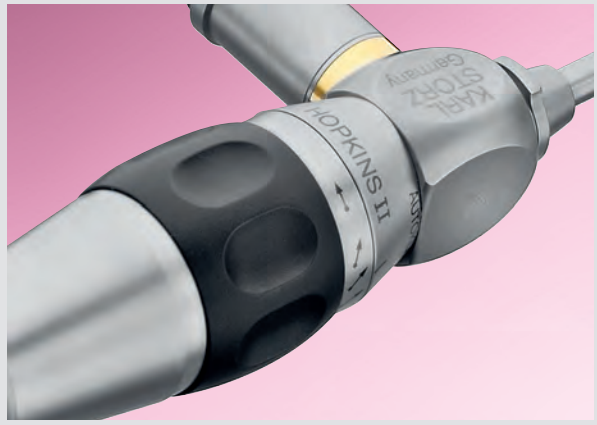
A simple turn of the adjusting knob enables the user to select the direction of view between 15° and 90°. Consequently, the surgeon can quickly and easily select the desired direction of view for optimal orientation and control. This makes the ENDOCAMELEON® ENT also suitable for diagnosis.

ENDOCAMELEON® ENT significantly enhances orientation during use without the time-consuming change-over of telescopes, thereby ensuring safe and smooth work.

ENDOCAMELEON® ENT combines the user comfort of the proven HOPKINS® endoscopes with unprecedented versatility – in the proven KARL STORZ high quality.



The familiar ergonomics and handling of conventional telescopes is enhanced with the additional convenience of a variable direction of view.



The direction of view is adjusted by a mere turn of the adjusting knob at the proximal end of the ENDOCAMELEON® ENT.

3-13

ENDOCAMELEON® ENT NEW

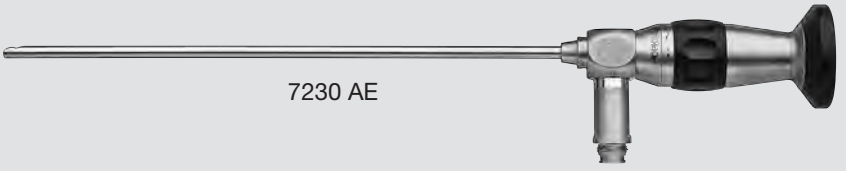
KARL STORZ — ENDOSKOPE

EndoCAMeleon® ENT

Diameter 4 mm, length 18 cm

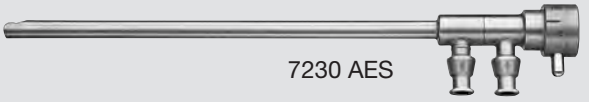
Special Features:

- **Variable direction of view from 15° – 90°**
- **Easy-to-use adjusting knob selects the desired direction of view**
- **Lightweight construction and modern design**
- **HOPKINS® telescope with unique rod-lens system**
- **Diameter 4 mm, length 18 cm**
- **Standard eyepiece fits all camera heads**



7230 AE

7230 AE **ENDOCAMELEON® ENT HOPKINS® Telescope,** diameter 4 mm, length 18 cm, **autoclavable,** variable direction of view from 15° – 90°, adjustment knob for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold



7230 AES

7230 AES **Irrigation and Suction Sheath,** outer diameter 4.8 x 6 mm, working length 14 cm, for use with ENDOCAMELEON® ENT HOPKINS® Telescope 7230 AE and KARL STORZ lens irrigation system CLEARVISION® II

3-13

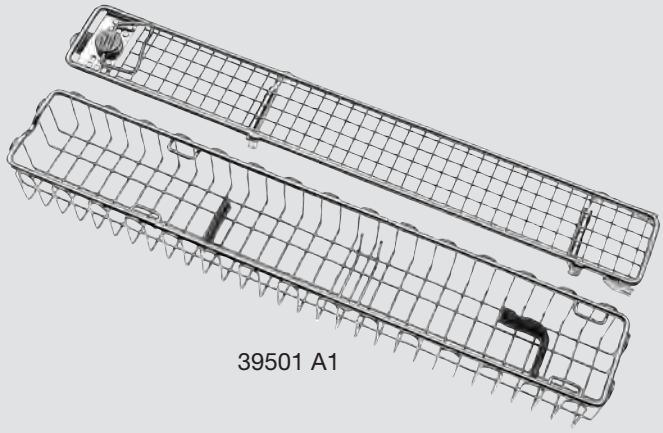
EndoCAMeleon® ENT

Accessories:



495 NA

495 NA **Fiber Optic Light Cable,** diameter 3.5 mm, length 230 cm



39501 A1

39501 A1 **Wire Tray for Cleaning, Sterilization and Storage** of one rigid endoscope, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 290 x 60 x 52 mm, for rigid endoscopes up to diameter 5 mm and working length 20 cm

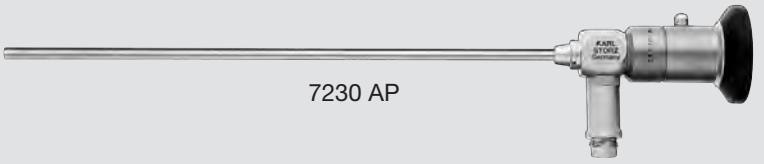
3-13

HOPKINS® II Telescopes

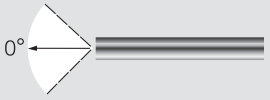
for Autofluorescence/Photodynamic Diagnosis (PDD) of Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

KARL STORZ — ENDOSKOPE

For Diagnosis and Early Detection of Carcinomas



7230 AP



7230 AP — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP — **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cables



495 FO — **Fluid Light Cable,** diameter 3 mm, length 180 cm
495 FP — **Desgleichen,** Länge 250 cm
495 FS — **Fluid Light Cable,** diameter 2 mm, length 220 cm

4-03₁

For high performance D-LIGHT C/AF light system as well as ENDOVISION® TRICAM® SL II PDD video systems for use with HOPKINS® II Telescopes 7230 AP – FP for autofluorescence/photodynamic diagnosis (PDD) see chapter 13, FLUORESCENCE and catalog TELEPRESENCE

HOPKINS® II Telescopes

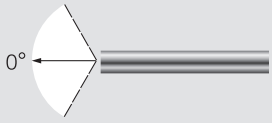
for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

KARL STORZ — ENDOSKOPE

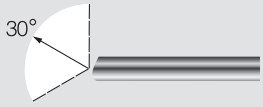
Diameter 4 mm, length 18 cm



7230 AWA



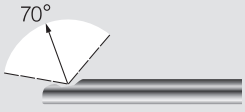
7230 AWA **HOPKINS® II Wide Angle Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green



7230 BWA **HOPKINS® II Wide Angle Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red



7230 FWA **HOPKINS® II Wide Angle Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: black



7230 CWA **HOPKINS® II Wide Angle Lateral Telescope 70°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: yellow

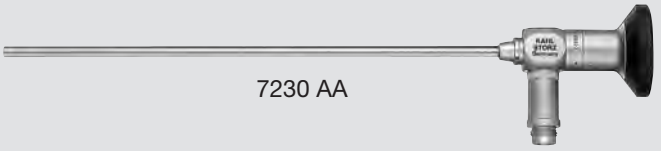
4-03

HOPKINS® II Telescopes

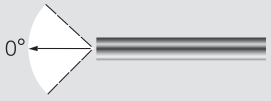
for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

KARL STORZ — ENDOSKOPE

Diameter 4 mm, length 18 cm



7230 AA



7230 AA **HOPKINS® II Straight Forward Telescope 0°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green



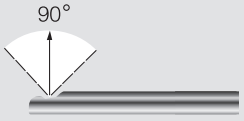
7230 BA **HOPKINS® II Forward-Oblique Telescope 30°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red



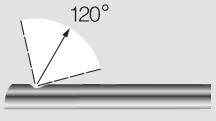
7230 FA **HOPKINS® II Forward-Oblique Telescope 45°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: black



7230 CA **HOPKINS® II Lateral Telescope 70°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: yellow



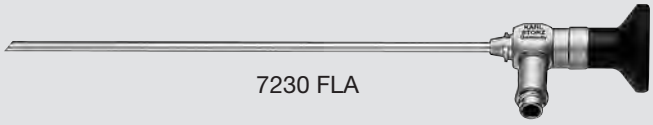
7230 DA **HOPKINS® II Lateral Telescope 90°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: blue



7230 EA **HOPKINS® II Retrograde Telescope 120°,**
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: white

4-03

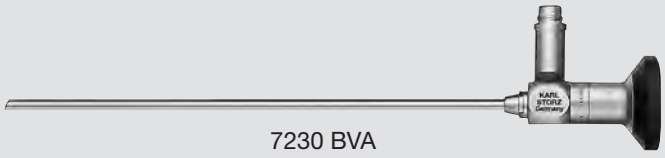
Diameter 4 mm, length 18 cm



7230 FLA



7230 FLA **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** connection for fiber optic light cable on the left, fiber optic light transmission incorporated,
color code: black



7230 BVA



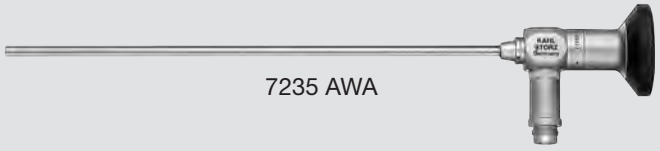
7230 BVA **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** connection for fiber optic light cable on upper side, fiber optic light transmission incorporated,
color code: red



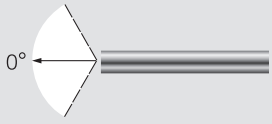
7230 FVA **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** connection for fiber optic light cable on upper side, fiber optic light transmission incorporated,
color code: black



7230 CVA **HOPKINS® II Lateral Telescope 70°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** connection for fiber optic light cable on upper side, fiber optic light transmission incorporated,
color code: yellow



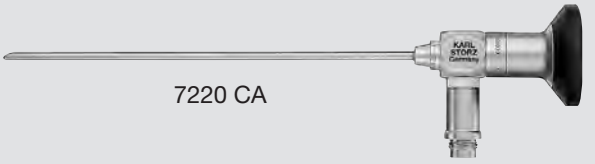
7235 AWA



7235 AWA **HOPKINS® II Wide Angle Straight Forward Telescope 0°,** enlarged view, diameter 5 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

4-03₁

Diameter 3 mm, length 14 cm, with extra large image





7220 AA — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



7220 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red



7220 FA — **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated, color code: black



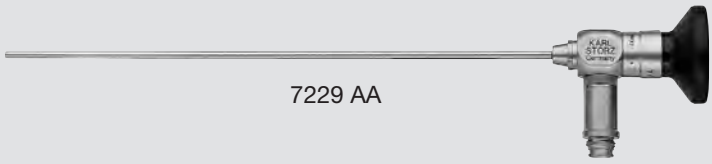
7220 FVA — **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 3 mm, length 14 cm, **autoklavierbar,** connection for fiber optic light cable upwards, fiber optic light transmission incorporated, color code: black



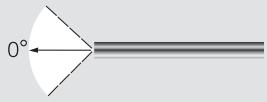
7220 CA — **HOPKINS® II Lateral Telescope 70°,** enlarged view, diameter 3 mm, length 14 cm, **autoclavable,** fiber optic light transmission incorporated, color code: yellow

8-11

Diameter 2.7 mm, length 18 cm, with extra large image



7229 AA



7229 AA

HOPKINS® II Straight Forward Telescope 0°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green



7229 BA

HOPKINS® II Forward-Oblique Telescope 30°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red



7229 FA

HOPKINS® II Forward-Oblique Telescope 45°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: black



7229 CA

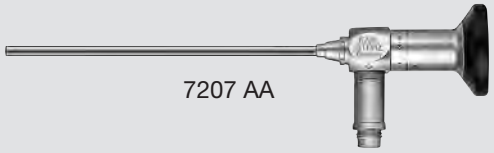
HOPKINS® II Lateral Telescope 70°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission incorporated,
color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

KARL STORZ — ENDOSKOPE

Diameter 2.7 mm, length 11 cm



7207 AA

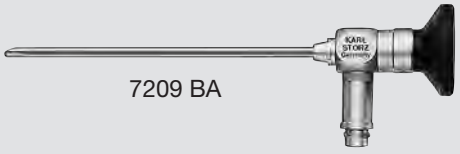


7207 AA — **HOPKINS® II Straight Forward Telescope 0°,** diameter 2.7 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



7207 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.7 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Diameter 3 mm, length 11 cm



7209 BA



7209 BA — **HOPKINS® Forward-Oblique Telescope 30°,** diameter 3 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Fiber Optic Light Cable



495 NL

495 NL — **Fiber Optic Light Cable,** diameter 3.5 mm, length 180 cm

495 NA — **Same,** length 230 cm

8-11

Additional Light Cables see catalog TELEPRESENCE

LED Battery Light Source for Endoscopes



11301 D4



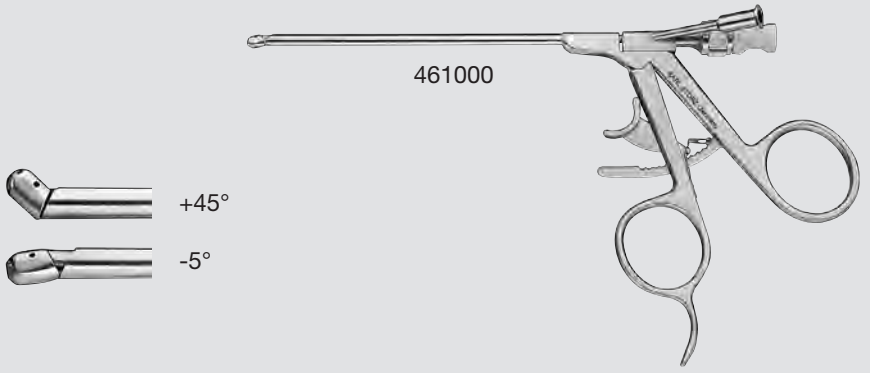
11301 DG

11301 D4	**Battery Light Source LED for Endoscopes,** with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection,** with 2 Photo Batteries 121306 P
11301 DE	**Battery Light Source LED for Endoscopes,** rechargeable, with click connection, brightness > 110 lm / >150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
11301 DF	**Same,** with fast screw thread
11301 DG	**Charging Unit,** for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
094129	**Battery Charger Li-Ion,** for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
094127	**Mains Cord,** for Battery Charger 094129, length 150 cm

3-07

Components/Spare Parts see chapter 16

LEUNIG-GREVERS **LASER Application Instrument**



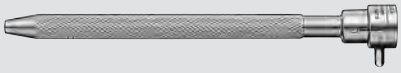
461000	LEUNIG-GREVERS **LASER Application Instrument,** for endonasal LASER surgery, forceps-shaped, for endonasal LASER treatment, handle with ratchet, sheath with channel for introduction of LASER probes up to 1 mm in diameter, distal tip continuously articulating from -5° up to +45°, with integrated smoke evacuation channel, working length 10 cm
723527 L	**Cleaning Tube,** for telescope channel of LASER Rhinoscope Sheaths 722010 A – B, LUER-Lock, length 24 cm

8-11

Components/Spare Parts see chapter 16



723770 STAMMBERGER **Telescope Handle,** flat, standard model, length 11 cm, for use with HOPKINS® straight forward telescopes 0° with diameter 4 mm and length 18 cm



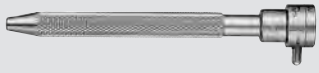
723771 STAMMBERGER **Telescope Handle,** round, length 14.5 cm, for use with HOPKINS® telescopes 30° – 120° with length 18 cm



723772 STAMMBERGER **Telescope Handle,** round, standard model, length 11 cm, for use with HOPKINS® telescopes 30° – 120° with diameter 4 mm and length 18 cm



723773 STAMMBERGER **Telescope Handle,** round, length 6.5 cm, for use with HOPKINS® telescopes with diameter 2.7/3 mm and length 11 cm



723774 STAMMBERGER **Telescope Handle,** round, length 11 cm, for use with HOPKINS® telescopes with diameter 1.9/2.7 mm and length 18 cm



723750 A **Protection Tube,** for HOPKINS® telescopes with length of 6 – 11 cm



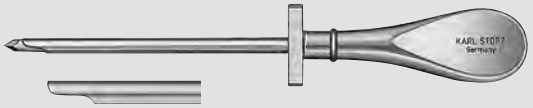
723750 B **Protection Tube,** working length 19.7 cm, for use with HOPKINS® telescopes with a length of 18 cm



39105 A

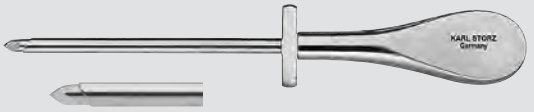
39105 A **Cleaning Adaptor,** for manual or machine cleaning of instruments without irrigation port from 1.5 to 5 mm diameter

4-03



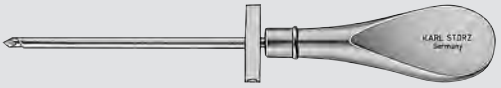
723005 A

Trocar for Sinoscopy, with beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



723005 B

Trocar for Sinoscopy, oblique beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



723103 B

Trocar for Sinoscopy, oblique beak, outer diameter 3.3 mm, length of the cannula 7.5 cm, for use with HOPKINS® telescopes with diameter 2.7 mm

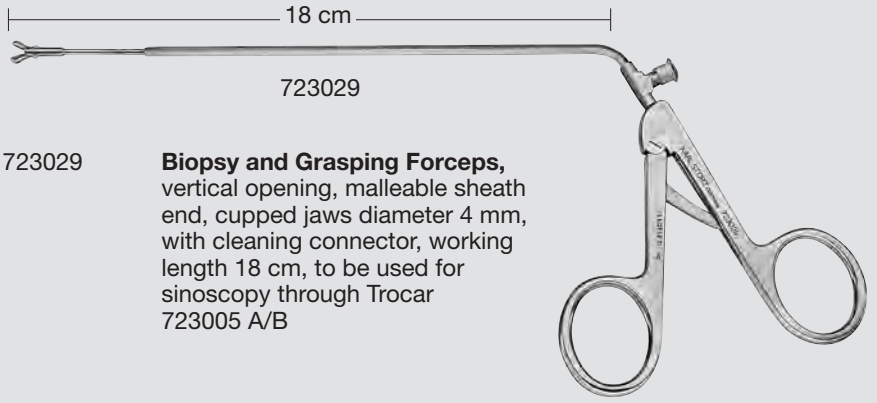
8-11

Biopsy and Grasping Forceps working length 14, 15 and 18 cm



723029

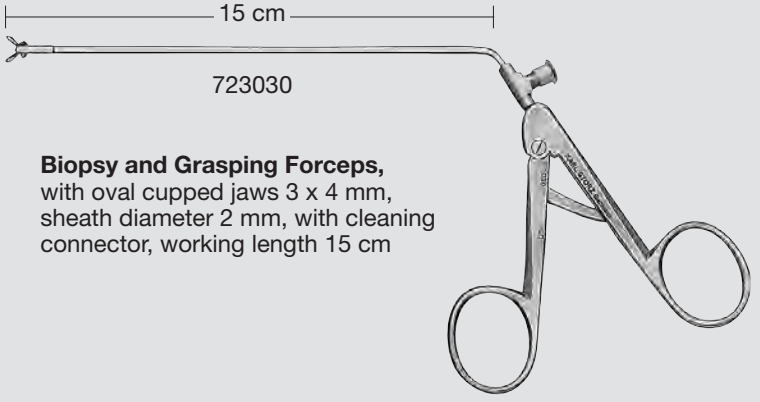
Biopsy and Grasping Forceps, vertical opening, malleable sheath end, cupped jaws diameter 4 mm, with cleaning connector, working length 18 cm, to be used for sinoscopy through Trocar 723005 A/B





723030

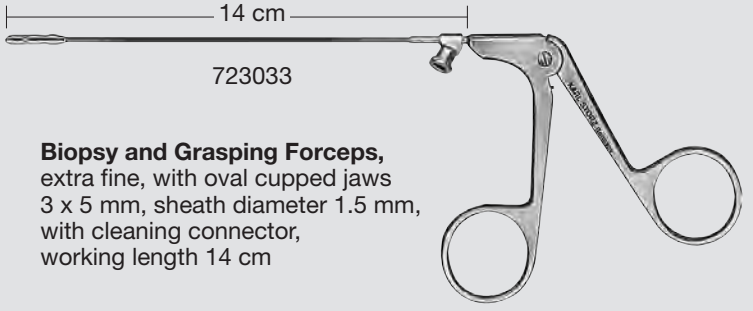
Biopsy and Grasping Forceps, with oval cupped jaws 3 x 4 mm, sheath diameter 2 mm, with cleaning connector, working length 15 cm





723033

Biopsy and Grasping Forceps, extra fine, with oval cupped jaws 3 x 5 mm, sheath diameter 1.5 mm, with cleaning connector, working length 14 cm

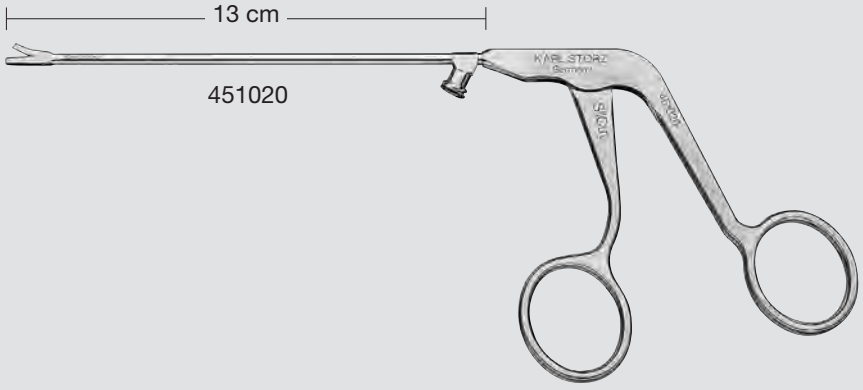


4-03

SilCut® Instruments

Special Features:

- **Tactile instrument feedback**
- **Uniform patented force transmission**
- **Powerful resection under precise control**
- **Accurate incision due to small tolerances**
- **Large aperture angle**
- **Special cutting geometry to prevent tissue from slipping**
- **Flat jaws**
- **Through-cutting and backward-cutting versions also available**





456021 GRÜNWALD-HENKE **SilCut® Nasal Forceps,** straight, not through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled grasping and removal of tissue, cartilage and bone fragments, new ergonomic handle design, BLAKESLEY shape, size 1, with cleaning connector, working length 13 cm



456521 **Same,** 45° upturned



451020 GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps,** straight, through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451021 **Same,** size 1



451520 GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps,** 45° upturned, through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451521 **Same,** size 1

3-07

SilCut® Instruments



452011 MACKAY-GRÜNWALD **SilCut® Nasal Cutting Forceps,** straight, through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, size 1.8 x 3 mm, with cleaning connector, working length 13 cm



452021 **SilCut® Nasal Cutting Forceps,** straight, through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452022 **Same,** width of cut 2.7 mm



452023 **Same,** width of cut 3.4 mm



452031 **SilCut® Nasal Cutting Forceps,** jaws upturned 15°, through-cutting, extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452032 **Same,** width of cut 2.7 mm



452033 **Same,** width of cut 3.4 mm



459110 STAMMBERGER **SilCut® Antrum Punch,** extremely powerful resection, patented uniform force transmission for gently controlled cutting, new ergonomic handle design, upbiting backward cutting, with cleaning connector, working length 10 cm



459151 **Same,** right side downward and forward cutting



459152 **Same,** left side downward and forward cutting

Recommended stainless steel trays for sterilization 39910 SC see catalog HYGIENE

3-07₁

Sinu*FIT*® Instruments NEW

completely detachable

KARL STORZ — ENDOSKOPE



The missing piece of the puzzle
The new generation of ENT forceps from KARL STORZ

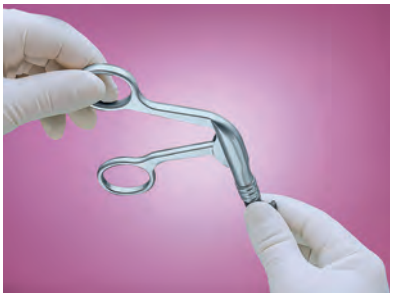
Nothing could be more simple!

The preparation of instruments is increasingly in the spotlight. The demand for a perfect hygienic cleaning process which can be validated and recorded is difficult to meet due to the design constraints of conventional instruments.

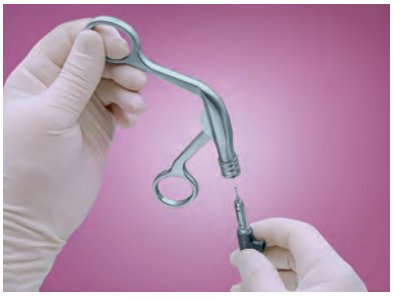
Sinu*FIT*®, the new ENT forceps from KARL STORZ, on the contrary, make perfect hygiene child's play. One hand movement is enough to separate the outer sheath from the working insert. You then have 3 or, with particularly delicate instruments, 2 instrument parts without dirt traps or inaccessible channels, which can be cleaned efficiently to a cutting-edge hygienic standard.

Naturally, the instruments can be reassembled as quickly and easily as they can be dismantled.





Dismantling the instrument in 3 simple steps: Push the slide back...



... and pull the outer sheath and the working insert out of the handle.



In the case of instruments with three parts, you then release the bayonet mount by turning it 90° and pulling the working insert out of the sheath. Done!

7-09

Machine cleaning of the **Sinu*FIT*®** instruments is as easy as it is efficient. Specially developed cleaning racks, in which the separate parts of the **Sinu*FIT*®** can be connected directly to the rinsing system, ensure particularly thorough preparation.

Sinu*FIT*® Instruments NEW

completely detachable

KARL STORZ — ENDOSKOPE



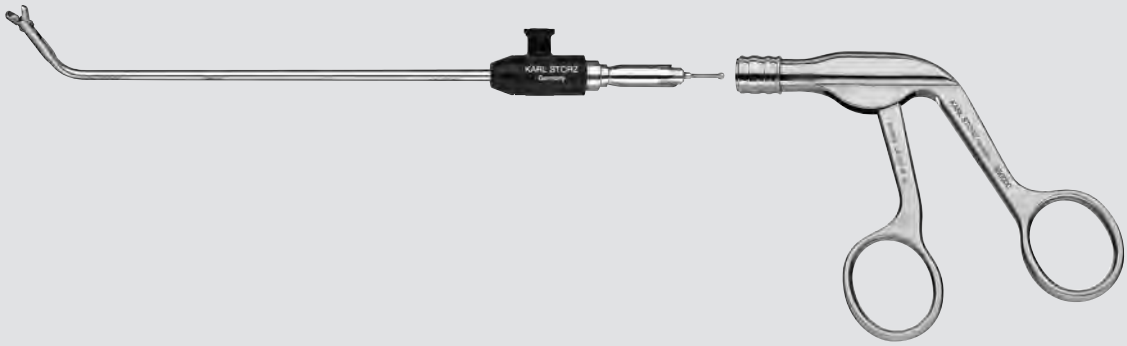
Special Features:

- **Completely detachable**
- **Easy dismantling and reassembly**
- **Easy and efficient cleaning also by means of the LUER-Lock connection**
- **Economic advantages due to compatibility with all working inserts and outer sheaths**
- **Well-balanced handle with ergonomic design**
- **Great variety of working inserts**
- **Inserts can be locked into three different positions**

Two-piece design

Sinu*FIT*® Instruments, consisting of:

- Handle
- Working attachment

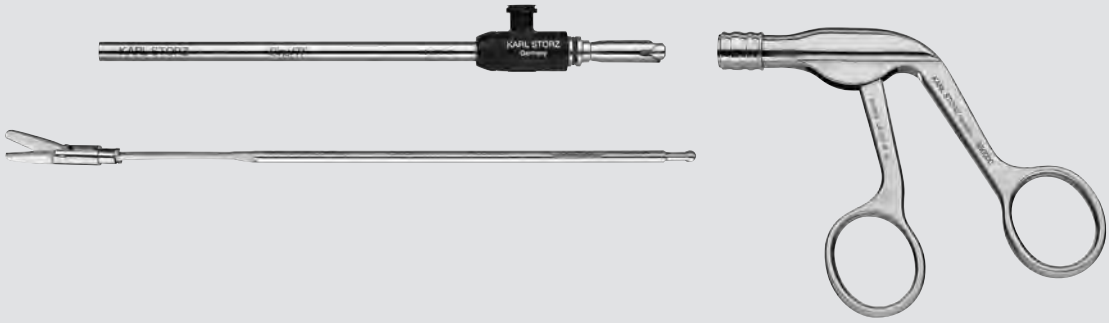


and

Three-piece design

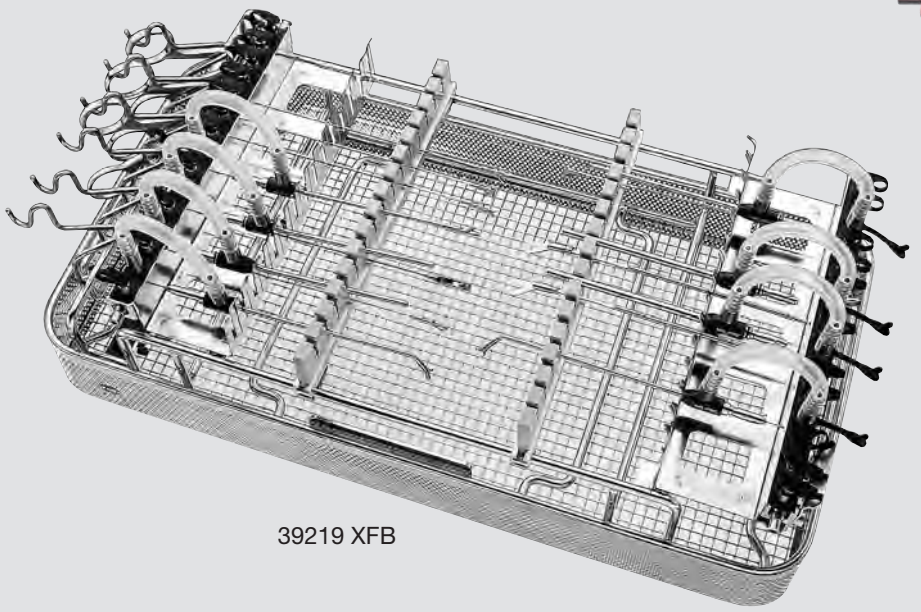
Sinu*FIT*® Instruments, consisting of:

- Handle
- Outer sheath
- Working insert



Please note:
For **Sinu*FIT*®** instruments only the **individual component parts** are numbered.
The catalog number for the **dismantling working attachment** is **not** on the instrument.

7-09



39219 XFB

39219 XF **Instrument Rack,** with one irrigation block (standard version) for cleaning, sterilization and storage of up to 15 **Laryngo***FIT*® or 15 **Sinu***FIT*® instrument attachments and 6 handles, incl. variable bars with silicone holder and direct connection of the instrument attachments via a multi-port bridge to the washer-disinfector and Wire Tray 39502 ZB, external dimensions (w x d x h): 480 x 250 x 160 mm

39219 XFB **Same for Cleaning, Sterilization and Storage** of up to 15 **Laryngo***FIT*® or 15 **Sinu***FIT*® instrument attachments and 6 handles

Optional Accessory



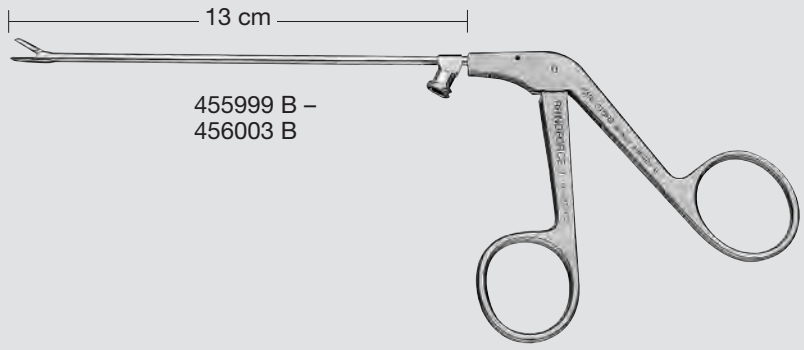
39502 V

39502 V **Wire Tray for Cleaning, Sterilization and Storage** of instruments, with hole plate walls and foldaway handles, external dimensions (w x d x h): 228 x 248 x 45 mm

7-09

Components/Spare Parts see chapter 16
Further accessories for cleaning and sterilization see catalog HYGIENE
Please note: The instruments displayed are not included in the instrument racks.

BLAKESLEY **RHINOFORCE® II Nasal Forceps**







455999 B — BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight, size 00, with cleaning connector, working length 13 cm



456000 B — **Same,** size 0



456001 B — **Same,** size 1



456002 B — **Same,** size 2



456003 B — **Same,** size 3





456499 B — BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned, size 00, with cleaning connector, working length 13 cm



456500 B — **Same,** size 0



456501 B — **Same,** size 1



456502 B — **Same,** size 2





456801 B — BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 90° upturned, size 1, with cleaning connector, working length 13 cm



456802 B — **Same,** size 2



456803 B — **Same,** size 3



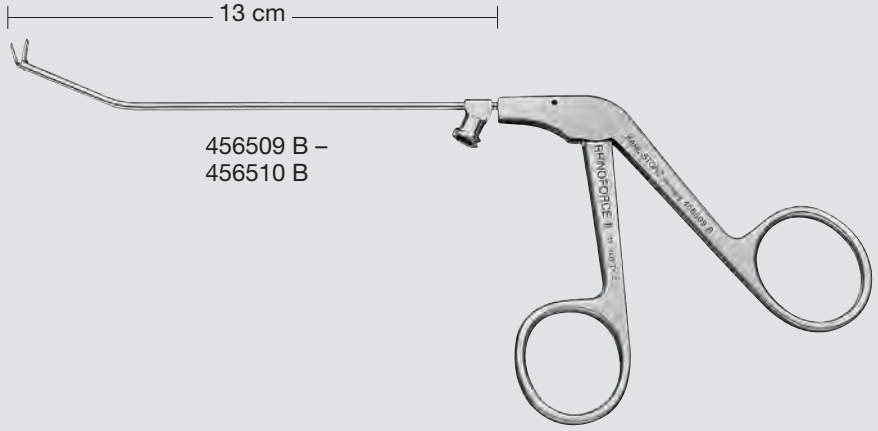


456601 B — BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** curved to right 45°, size 1, with cleaning connector, working length 13 cm

Recommended stainless steel trays for sterilization 39910 SC see catalog HYGIENE

3-99₂

BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**





456009 B — BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, with straight jaw, width 2.5 mm, with cleaning connector, working length 13 cm



456010 B — **Same,** width 3 mm



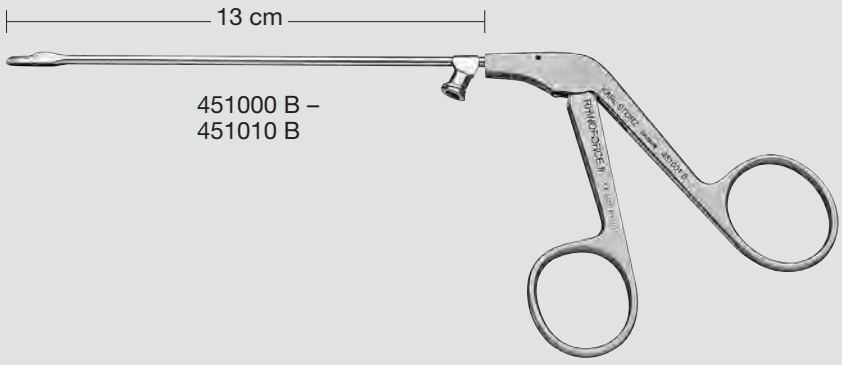
456509 B — BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, jaws 45° upturned, width 2.5 mm, with cleaning connector, working length 13 cm



456510 B — **Same,** width 3 mm

4-03₃

GRÜNWALD-HENKE/CASTELNUOVO **RHINOFORCE® II Nasal Forceps, through-cutting**





451000 B GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps,** straight, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm

451001 B **Same,** size 1, width 3.5 mm

451002 B **Same,** size 2, width 4 mm



451010 B CASTELNUOVO **RHINOFORCE® II Nasal Cutting Forceps,** end of sheath 25° upturned, through-cutting, with straight jaws, BLAKESLEY shape, width 3 mm, with cleaning connector, working length 13 cm



451500 B GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps,** 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



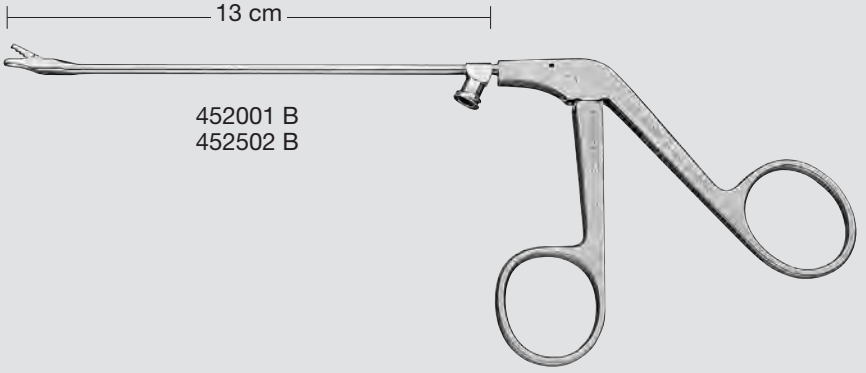
451501 B **Same,** size 1, width 3.5 mm

451502 B **Same,** size 2, width 4 mm

451510 B CASTELNUOVO **RHINOFORCE® II Nasal Cutting Forceps,** end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, with cleaning connector, working length 13 cm

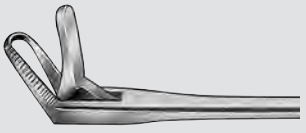
4-03$_2$

MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Forceps, through-cutting**



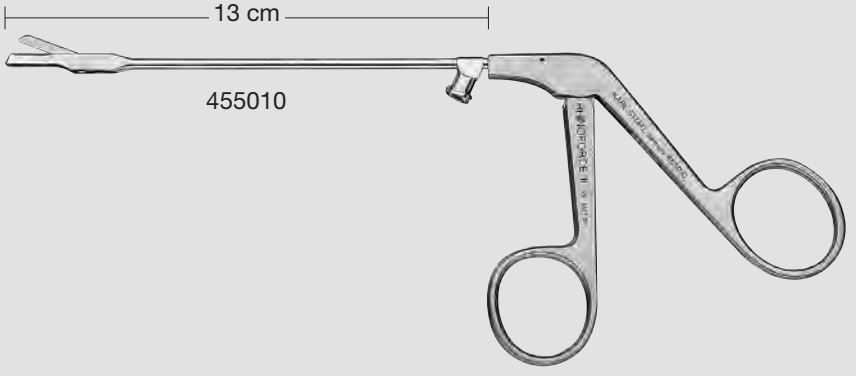


452001 B	MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Cutting Forceps,** straight, through-cutting, extra delicate, tissue-sparing, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm
452002 B	**Same,** 11.5 x 3.5 mm, size 2



452501 B	MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Cutting Forceps,** 45° upturned, through-cutting, extra delicate, tissue-sparing, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm
452502 B	**Same,** 11.5 x 3.5 mm, size 2

STRUYCKEN **RHINOFORCE® II Nasal Cutting Forceps**



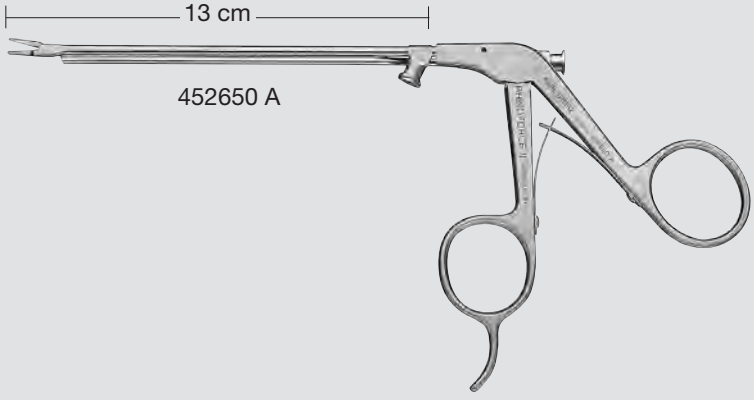


455010	STRUYCKEN **RHINOFORCE® II Nasal Cutting Forceps,** with cleaning connector, working length 13 cm

4-03$_2$

MONTGOMERY-YOUNGS **RHINOFORCE® II Clip Applicator, for endonasal endoscopic sphenopalatine artery ligature**

Winner of the 2006 Cutler Surgical Prize





The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A — MONTGOMERY-YOUNGS **RHINOFORCE® II Clip Applicator,** for endonasal endoscopic sphenopalatine artery ligature, with suction channel, handle with spring, straight, with cleaning connector, working length 13 cm, for use with Titanium Clips 8665 T



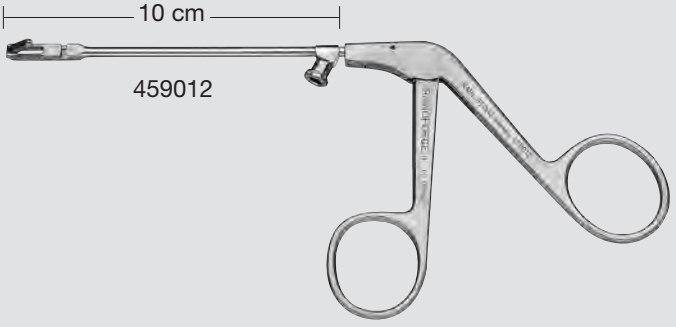
452650 C — **Same,** jaws angled to the right



452650 D — **Same,** jaws angled to the left

3-07₂

STAMMBERGER **Antrum Punch, backwards cutting**





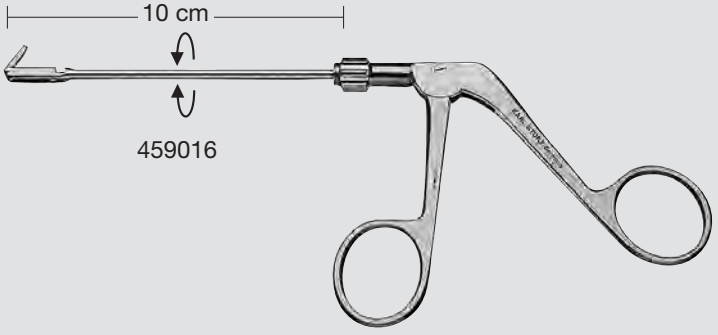
459010 STAMMBERGER **RHINOFORCE® II Antrum Punch,** upside backward cutting, with cleaning connector, working length 10 cm



459011 **Same,** right side backward cutting



459012 **Same,** left side backward cutting





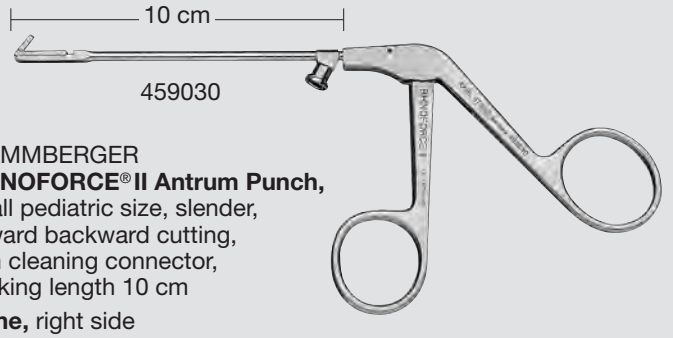
459016 STAMMBERGER **Antrum Punch,** backward cutting, sheath 360° rotatable, with fixing screw, dismantling, working length 10 cm, for use with Cleaning Adaptor 459015 LL



459015 LL **Cleaning Adaptor**

3-99$_3$

STAMMBERGER **Antrum Punches, pediatric size, backward cutting**





459030 STAMMBERGER **RHINOFORCE® II Antrum Punch,** small pediatric size, slender, upward backward cutting, with cleaning connector, working length 10 cm



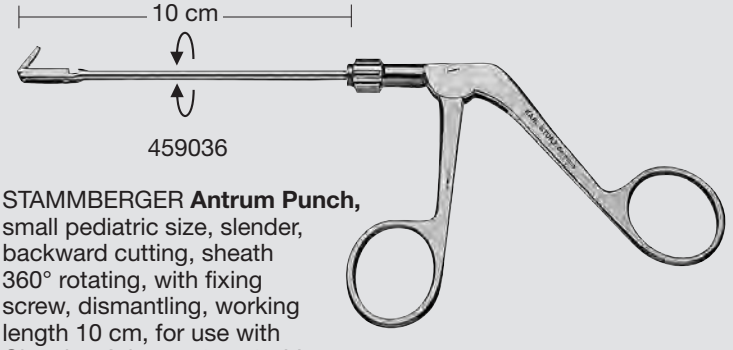
459031 **Same,** right side backward cutting



459032 **Same,** left side backward cutting



459033 **Same,** downside backward cutting



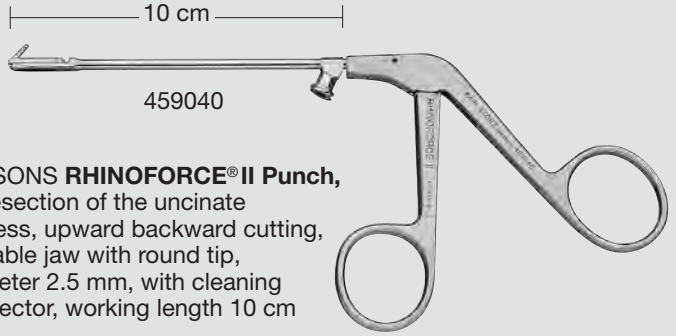


459036 STAMMBERGER **Antrum Punch,** small pediatric size, slender, backward cutting, sheath 360° rotating, with fixing screw, dismantling, working length 10 cm, for use with Cleaning Adaptor 459015 LL



459015 LL **Cleaning Adaptor**

PARSONS **RHINOFORCE® II Punches, backward cutting**





459040 PARSONS **RHINOFORCE® II Punch,** for resection of the uncinate process, upward backward cutting, movable jaw with round tip, diameter 2.5 mm, with cleaning connector, working length 10 cm



459041 **Same,** right side backward cutting



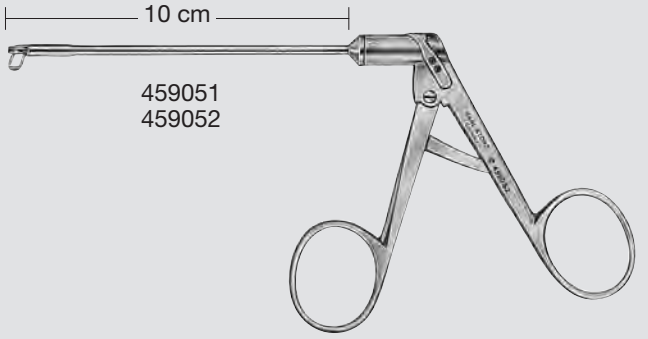
459042 **Same,** left side backward cutting

3-995

STAMMBERGER **Antrum Punch, sidebiting downward and forward cutting**

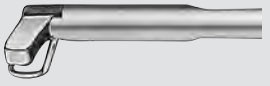
The sidebiting antrum punch forceps designed in conjunction with Professor Heinz STAMMBERGER are crucial for removing remnants of the inferior uncinate process. The forceps are available in left and right version, and are designed to cut downward and forward. The innovative forceps design allows individual shaping of the antrostomy opening and extension of the antrostomy inferiorly and posteriorly. Use of the new sidebiting forceps can help reduce the time required for a middle meatal antrostomy. The sidebiting forceps can also be used to connect an accessory ostium to the natural maxillary ostium, as well as for partial resection of the inferior orbital floor in orbital decompression procedures.







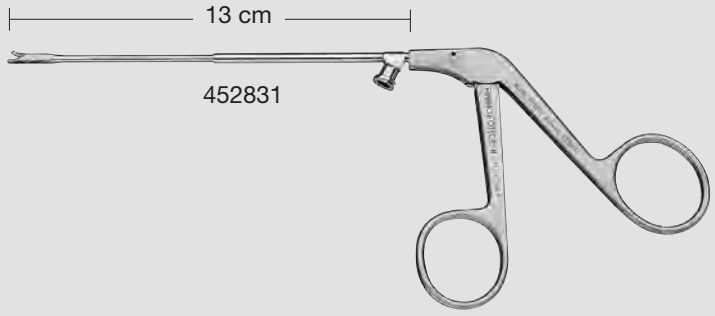
459051 STAMMBERGER **Antrum Punch,** right side downward and forward cutting, working length 10 cm



459052 **Same,** left side downward and forward cutting

3-99

RHINOFORCE® II Miniature Nasal Forceps, flat jaws, through-cutting





452831 **RHINOFORCE® II Miniature Nasal Forceps,** with extra fine flat jaws, through-cutting, tissue-sparing, straight sheath, straight jaws, width of cut 1.5 mm, with cleaning connector, working length 13 cm



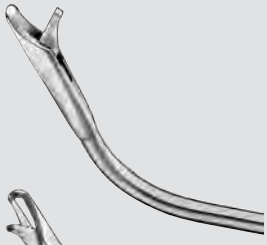
452832 **Same,** jaws 45° upturned



452833 **Same,** sheath curved 30°, straight jaws



452834 **Same,** sheath curved 30°, jaws 45° upturned



452841 CASTELNUOVO **RHINOFORCE® II Miniature Nasal Forceps,** with extra fine flat jaws, through-cutting, tissue-sparing, 65° upturned, backward opening, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452841 L **Same,** left side opening



452841 R **Same,** right side opening

3-99₃

HEUWIESER **Antrum Grasping Forceps**

Special Features:

- **Unique concept, completely new design**
- **Short, sharp-radius curve starting at the joint of the jaws**
- **Far-reaching jaws open backwards**
- **For endonasal removal of cysts and polyps**
- **Specially suitable for out-patient use under local anesthesia where a window already exists, without subjecting the patient to undue stress**
- **With the telescope introduced separately the slim sheath with a diameter of only 2.5 mm permits good handling and unimpeded view inside the antrum**
- **Distal end of the forceps is sharply curved like an antrum cannula thus making it possible to introduce the working end far into the antrum; the fundus of the antrum is reached down to the alveolar sinus**
- **Fenestrated jaws enable unobstructed view of anatomic structures and the position of the jaws, thus particularly facilitating localized work with grasping forceps**
- **Also suitable for removing fish bones and hairs from the hypopharynx**



653001



653000



653002



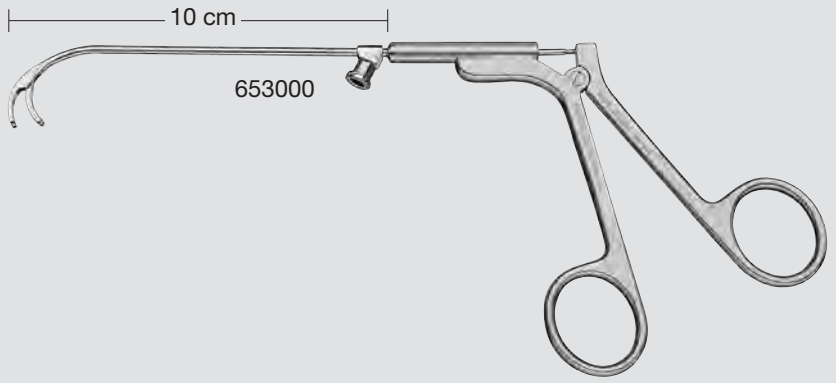
653003



653005



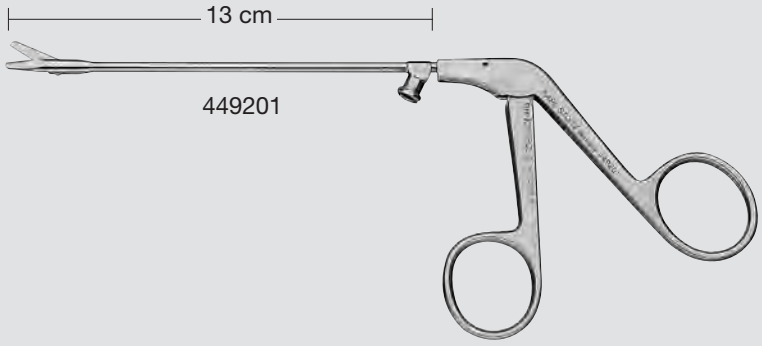
653006



653000	HEUWIESER **Antrum Grasping Forceps,** jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120° backward opening, with cleaning connector, working length 10 cm
653001	**Same,** jaws curved upwards
653002	**Same,** jaws curved to right
653003	**Same,** jaws curved to left
653005	HEUWIESER **Antrum Grasping Forceps,** with extra long curve for anterior alveolar recess, fixed jaw curved downwards 115°, movable jaw backward opening up to 140°, with cleaning connector, working length 10 cm
653006	**Same,** fixed jaw curved downwards 140°, movable jaw backward opening 155°

1-99₂

RHINOFORCE® II Nasal Scissors





449201 **RHINOFORCE® II Nasal Scissors,** straight, with cleaning connector, working length 13 cm



449202 **Same,** curved to right



449203 **Same,** curved to left



449204 **RHINOFORCE® II Nasal Scissors,** cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm



449205 **Same,** curved downwards



449211 **RHINOFORCE® II Nasal Scissors,** straight, small model, length of cut 10 mm, with cleaning connector, working length 13 cm



449212 **Same,** curved to right



449213 **Same,** curved to left

1-99₃

Nasal Scissors



449250

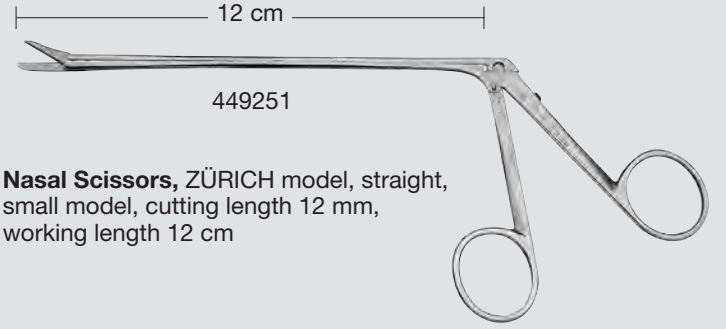
Nasal Scissors, ZÜRICH model, straight, large model, cutting length 18 mm, working length 14 cm





449251

Nasal Scissors, ZÜRICH model, straight, small model, cutting length 12 mm, working length 12 cm





449401

Nasal Scissors, straight, slender model, serrated, cutting length 10 mm, working length 11 cm



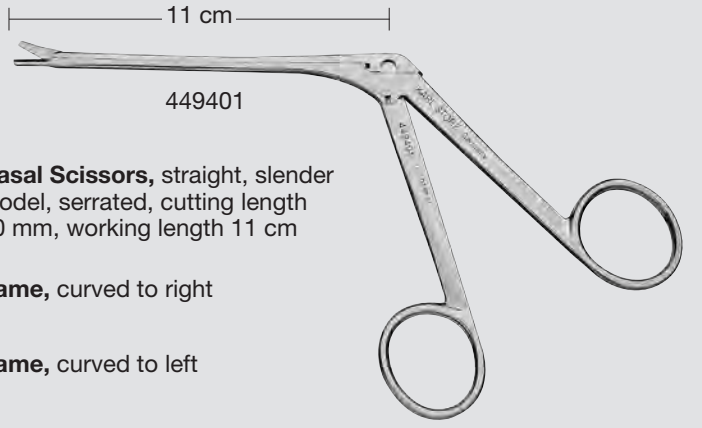
449402

Same, curved to right



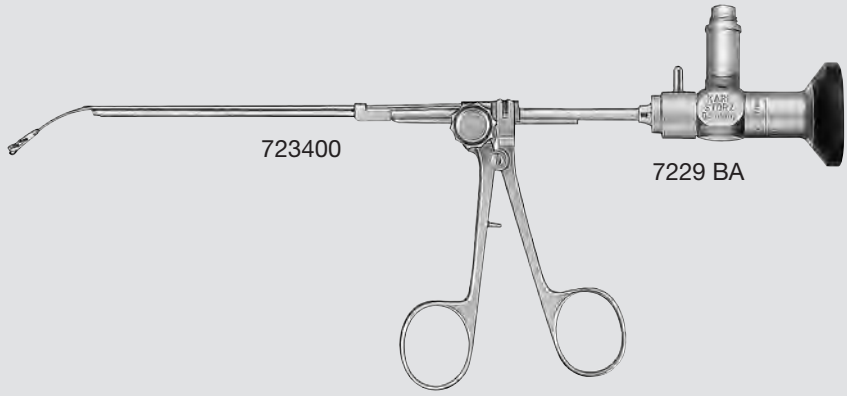
449403

Same, curved to left



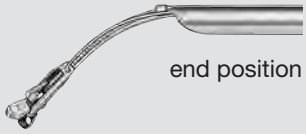
4-03

Optical Biopsy and Grasping Forceps, retractable





starting position



end position

723400 **Optical Biopsy and Grasping Forceps,** flexible, for use with HOPKINS® II Telescope 7229 BA and Trocars 723005 A/B



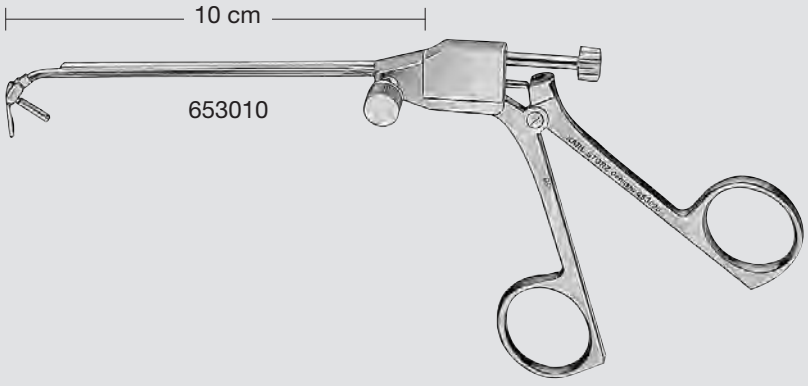
7229 BA **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: red

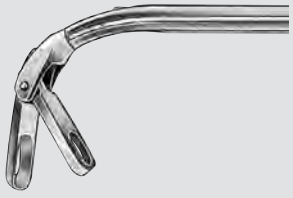
4-03₂

HEUWIESER **Antrum Grasping Forceps, double action jaws**

Special Features:

- **Enlarged action radius of jaws compared to that of** HEUWIESER **standard forceps**
- **Retrograde position of both jaws adjustable: upper jaw up to 120° angle, inferior jaw up to 180°, opens backwards**

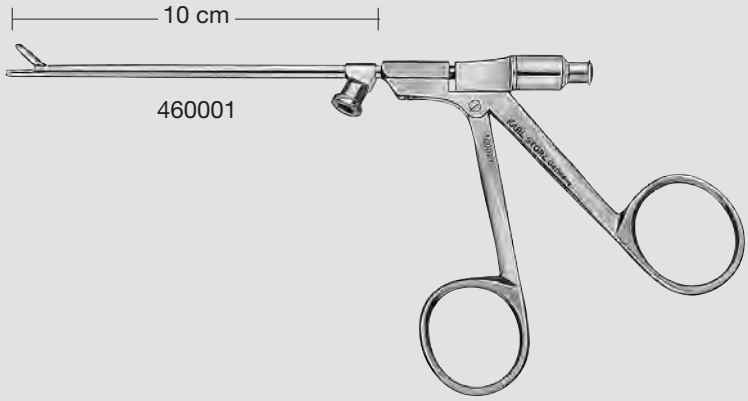


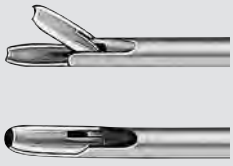


653010 HEUWIESER **Antrum Grasping Forceps,** double action jaws adjustable to retrograde position, working length 10 cm

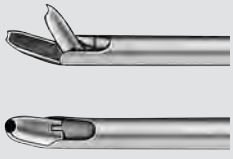
4-03₁

STAMMBERGER **Suction Punches, with central suction channel**





460001 STAMMBERGER **Suction Punch,** for biopsy and grasping, straight, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm

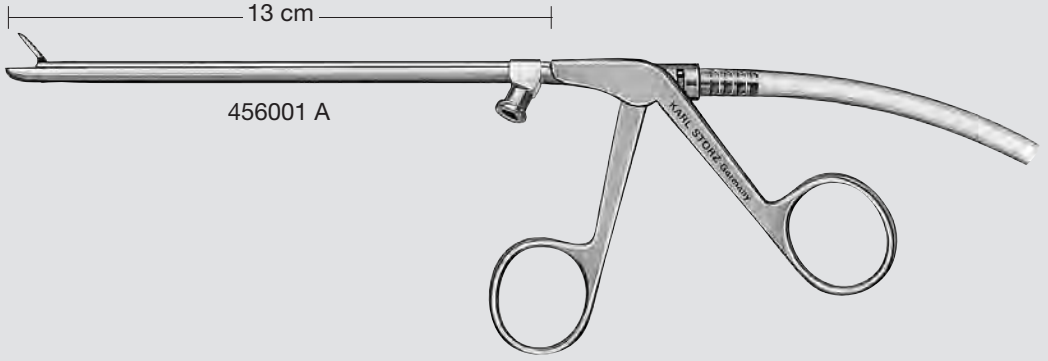


460501 STAMMBERGER **Suction Punch,** for biopsy and grasping, curved upwards, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm

3-99

Components/Spare Parts see chapter 16

KENNEDY-BLAKESLEY/LUSK **RHINOFORCE®II Suction Punches and Biopsy and Grasping Forceps, with lateral suction channel**







456001 A — KENNEDY-BLAKESLEY **RHINOFORCE®II Suction Punch,** for biopsy and grasping, straight, with suction channel, size 1, with cleaning connector, working length 13 cm



456002 A — **Same,** size 2

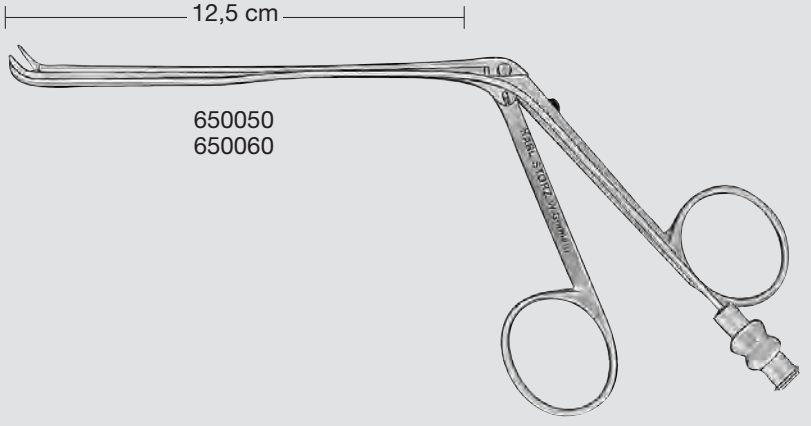




456501 A — KENNEDY-BLAKESLEY **RHINOFORCE®II Biopsy and Grasping Forceps,** 45° upturned, with suction channel, size 1, with cleaning connector, working length 12.5 cm



456502 A — **Same,** size 2





650050 — KENNEDY-LUSK **Biopsy and Grasping Forceps,** straight, for children, with suction channel, working length 12.5 cm



650060 — **Same,** 45° upturned

3-99

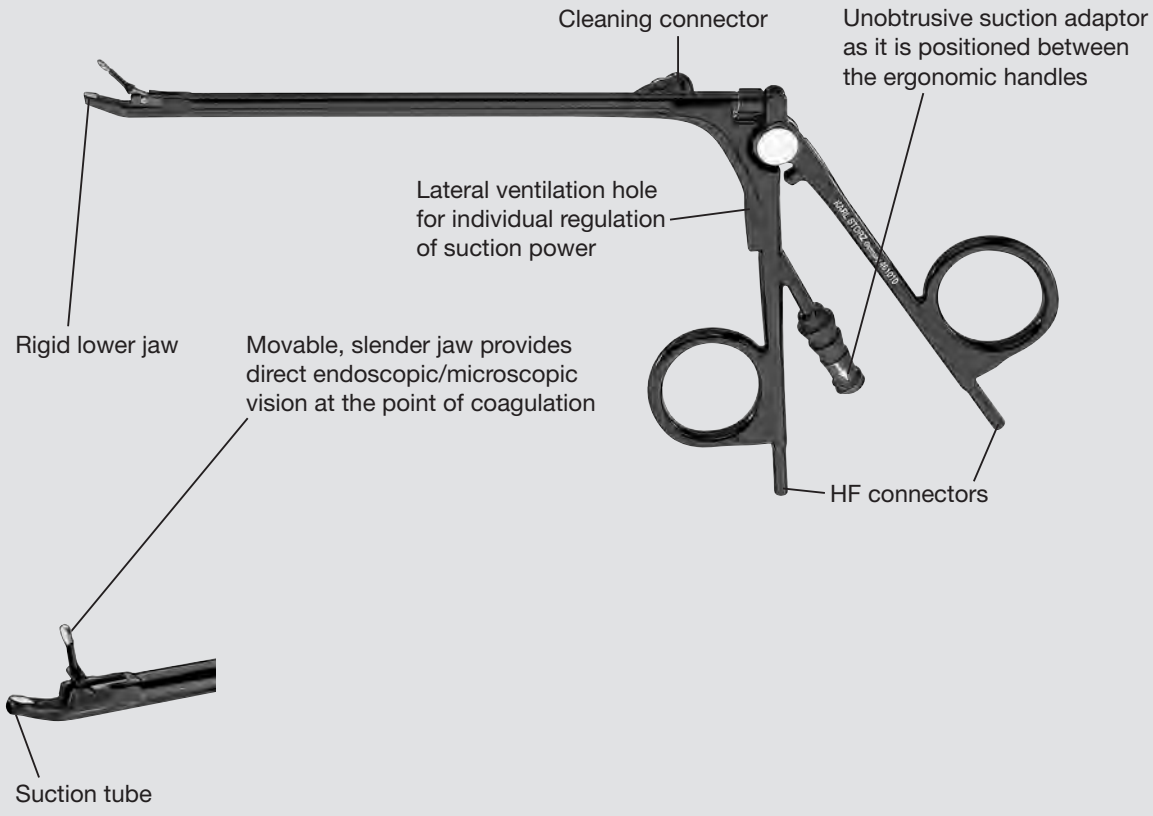
STAMMBERGER **Bipolar Suction Forceps**

KARL STORZ — ENDOSKOPE

bipolar

Special Features:

- **Design similar to standard paranasal grasping forceps**
- **Integrated suction channel**
- **Individual suction power regulation**
- **Bipolar coagulation**
- **Insulated except for small coagulation area on the instrument tip**
- **Single action jaws**
- **Distance between cautery poles may be varied, enabling punctual and extensive coagulation**
- **Special design of the movable jaw provides direct endoscopic/ microscopic vision at the point of coagulation**
- **Two instrument heads: angled 15° and 45° to the instrument sheath**
- **Slim design enables good availability of previously hard to reach regions for cauterization**



3-07₂

STAMMBERGER **Bipolar Suction Forceps**

KARL STORZ — ENDOSKOPE

bipolar

Indications/Applications:

- **Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)**
- **Skull base surgery**
- **Oozing hemorrhage from the mucosa edges**
- **Pituitary gland surgery**
- **Vascular processes, i.e. nasopharyngeal fibroma**
- **Epistaxis**
- **Rendu-Osler-Weber disease**
- **Secondary hemorrhage, i.e. from adenotomes in the nasopharynx**
- **Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)**
- **Turbinate cauterization**



461010



461010 STAMMBERGER **Bipolar Suction Forceps,** 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015 STAMMBERGER **Bipolar Suction Forceps,** 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

3-07₁

Bipolar High Frequency Cords see pages 426-428

TAKE-APART® Bipolar Forceps NEW

For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV

bipolar



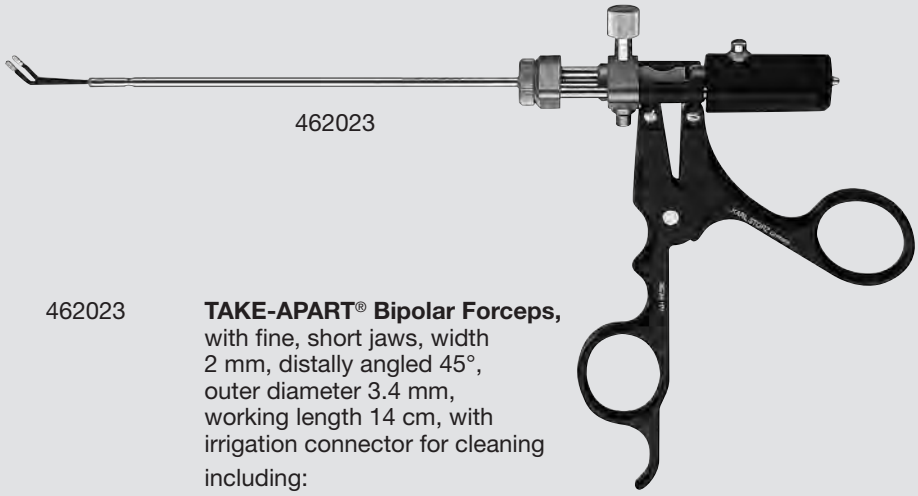
462020



462020 **TAKE-APART®** CASTELNUOVO **Bipolar Forceps,** with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning

including:

Bipolar Ring Handle
Outer Sheath
Inner Sheath
Forceps Insert



462023



462023 **TAKE-APART® Bipolar Forceps,** with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning

including:

Bipolar Ring Handle
Outer Sheath
Inner Sheath
Forceps Insert

8-11

Components/Spare Parts see chapter 16

STAMMBERGER **Circular Cutting Punches**

Special Features:

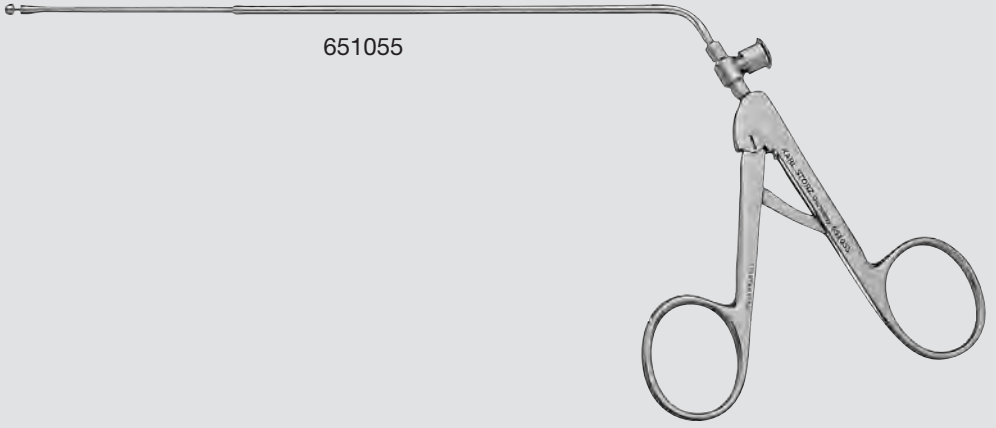
- **Unique design**
- **For enlarging openings in the sphenoid frontal wall**
- **Circular cutting punch mechanism allows cutting in a full circle of 360° without rotating the instrument as required with a conventional punch forceps**
- **No interference with other instruments simultaneously used in the nose (e. g. endoscope, suction tube)**
- **Available in 2 sizes: diameter 3.5 and 4.5 mm, punch head 4-fold LASER-welded**
- **With cleaning connector**
- **Multipurpose use:**

– In addition to abrading procedures applied to the sphenoid frontal wall, bony ethmoid septa, pieces of nasal concha and other thin bony bridges can also be cut away

– Extremely useful for treatment of choanal atresia

– Blunt punching head reduces injuries

– If used correctly by punching exclusively in the sagittal axis, traumata of vital structures, e. g. cranium, arteria carotis and optic nerve osseous canal are virtually impossible

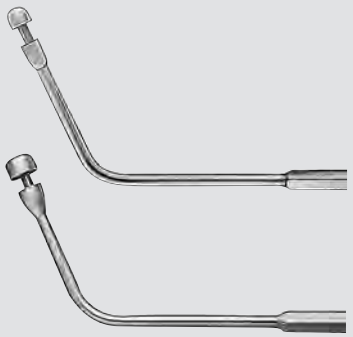




651055 STAMMBERGER **Punch,** circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with cleaning connector, working length 18 cm



651050 **Same,** diameter 4.5 mm



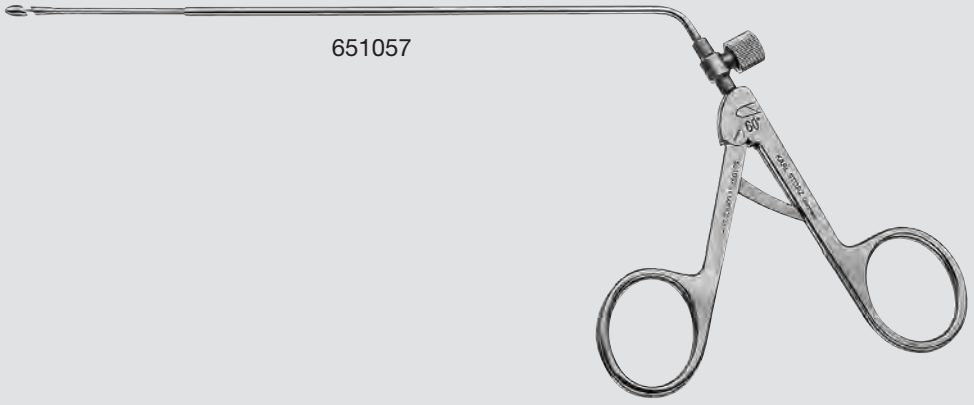
651060 STAMMBERGER **Punch,** circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, with cleaning connector, working length 17 cm

651065 **Same,** diameter 4.5 mm

3-99$_{1}$

STAMMBERGER **Punches**

Egg-shaped tip, for opening the ethmoid cells and the sphenoid sinus





651057 STAMMBERGER **Punch,** egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 3.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



651058 **Same,** 120° cutting direction from distal below to proximal above



651052 STAMMBERGER **Punch,** egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 4.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



651053 **Same,** 120° cutting direction from distal below to proximal above



651061 STAMMBERGER **Punch,** egg-shaped tip, circular cut, 90° cutting direction, tip diameter 3.5 mm, sheath 65° upturned, for frontal sinus recess, with cleaning connector, working length 17 cm

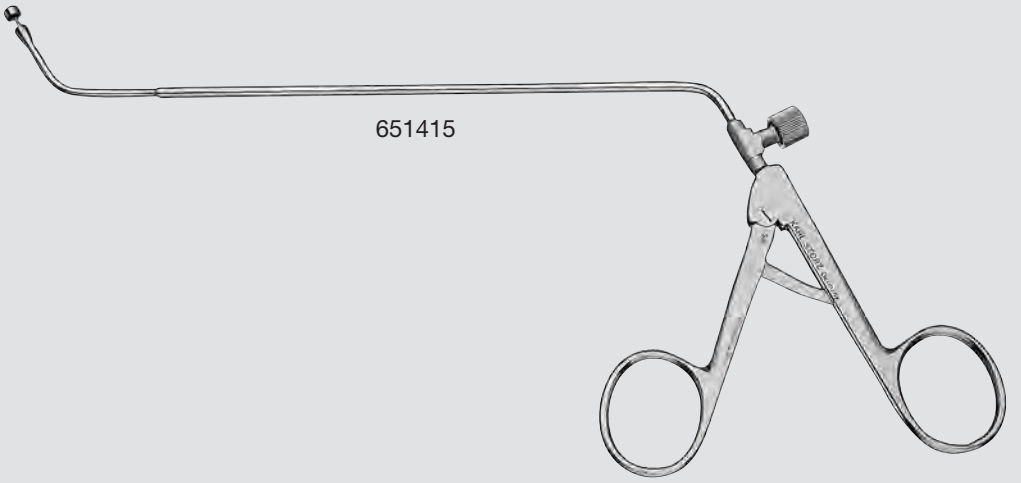
651066 **Same,** tip diameter 4.5 mm

3-07₁

KAMEL **Antrum Punches**

Special Features:

- **Middle meatal antrostomy punch**
- **Short tip, 30° and 45° upturned**
- **Punch head diameter 4.5 mm**
- **Circular cutting**
- **Working length 13 cm**
- **With cleaning connector**





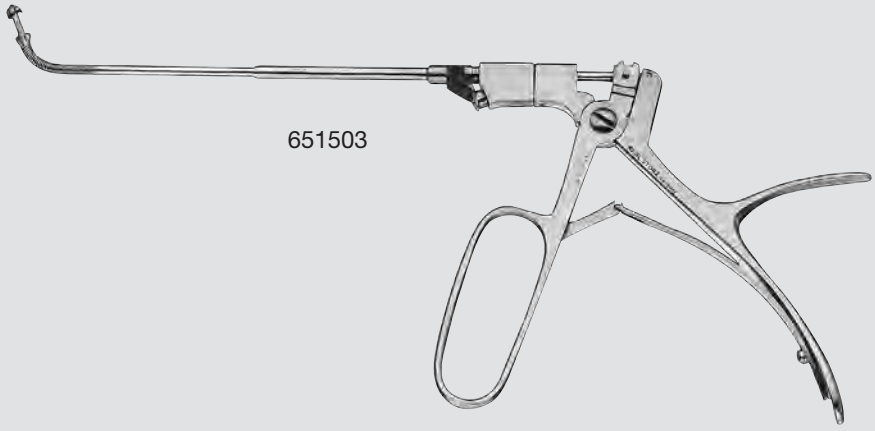
651410 KAMEL **Punch,** 30° upturned, punch head diameter 4.5 mm, circular cutting, with cleaning connector, working length 13 cm



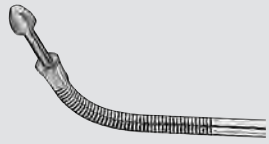
651415 **Same,** 45° upturned

4-03

HOSEMANN **Frontal Sinus/Recess Punches and Sphenoid Punch, with central irrigation channel**



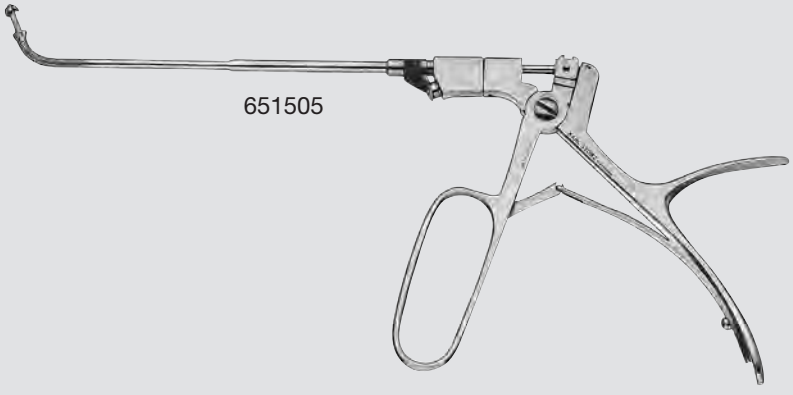
651503



651503 HOSEMANN **Frontal Sinus/Recess Punch,** 70° upturned, slender model, punch head diameter 3.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



651504 HOSEMANN **Sphenoid Punch,** straight, slender model, punch head diameter 3.5 mm, not through-cutting, front part of punch fixed, rear part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



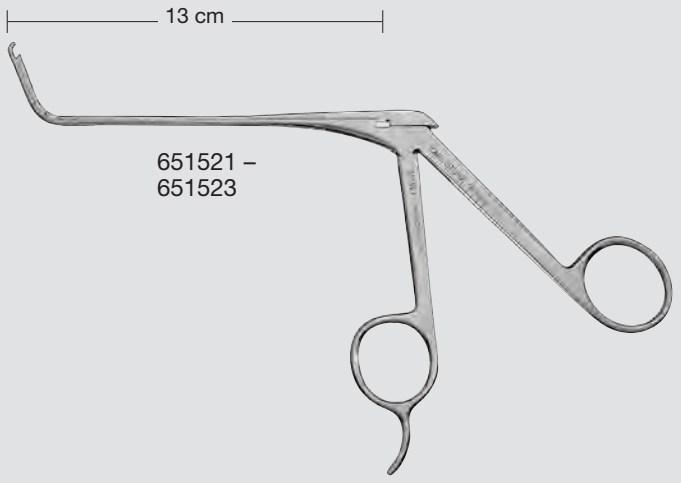
651505



651505 HOSEMANN **Frontal Sinus/Recess Punch,** 70° upturned, robust model, punch head diameter 5.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 3.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm

4-03₁

Frontal Sinus Punch with link chain sheath, backward cutting

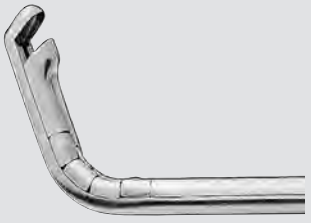




651521 **Frontal Sinus Punch,** with link chain sheath 70° upturned, backward cutting, to reduce the spina nasalis superior, small, jaws 2.5 x 2 mm, working length 13 cm



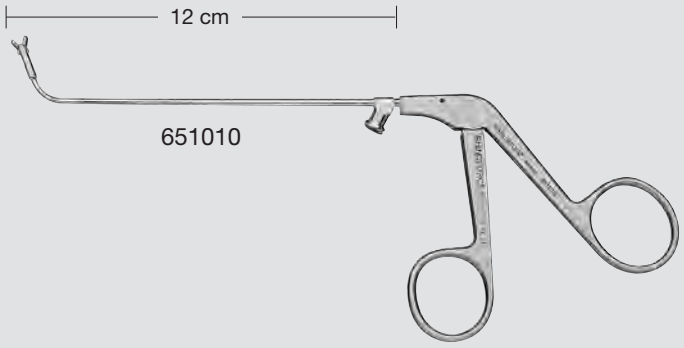
651522 **Same,** medium (standard size), jaws 3.5 x 3 mm

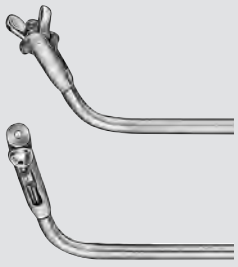


651523 **Same,** large, jaws 5.5 x 5 mm

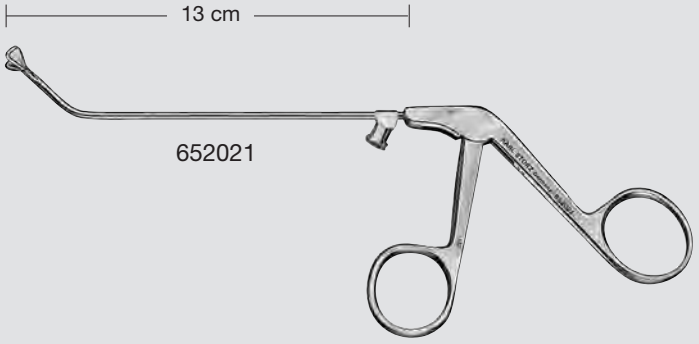
4-03

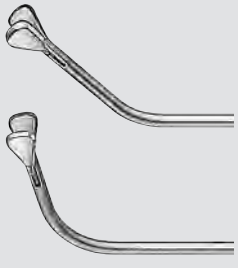
STAMMBERGER **RHINOFORCE® II Double Spoon Forceps, round and pear-shaped**





651010	STAMMBERGER **RHINOFORCE® II Double Spoon Forceps,** vertical opening, 65° upturned, spoon diameter 3 mm, with cleaning connector, working length 12 cm
651020	**Same,** horizontal opening

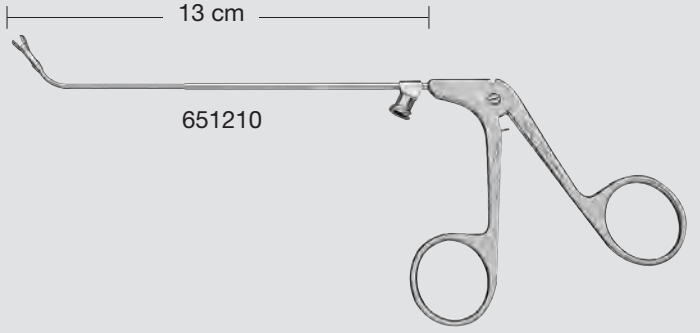




652021	**RHINOFORCE® II Double Spoon Forceps,** horizontal opening, pear-shaped jaws, 45° upturned, with cleaning connector, working length 13 cm
652024	**Same,** 80° upturned

3-99₂

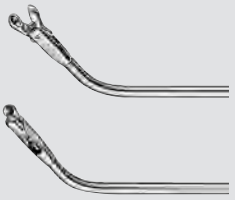
KUHN-BOLGER **Double Spoon Giraffe Forceps, cupped jaws, not through-cutting**





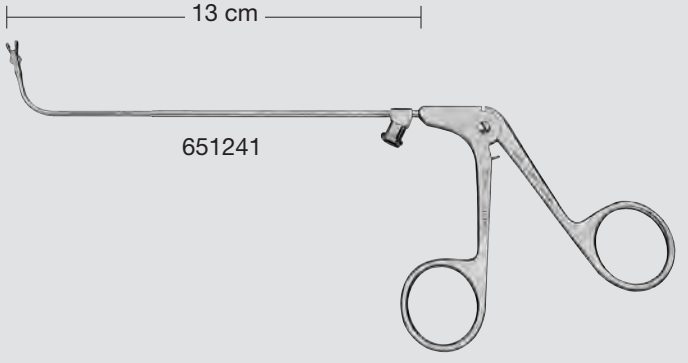
651210 KUHN-BOLGER **Double Spoon Giraffe Forceps,** 55° upturned, vertical opening, spoon diameter 3 mm, with cleaning connector, working length 13 cm

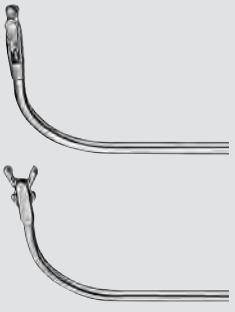
651220 **Same,** horizontal opening



651211 KUHN-BOLGER **Double Spoon Giraffe Forceps,** 55° upturned, vertical opening, spoon diameter 2 mm, with cleaning connector, working length 13 cm

651221 **Same,** horizontal opening



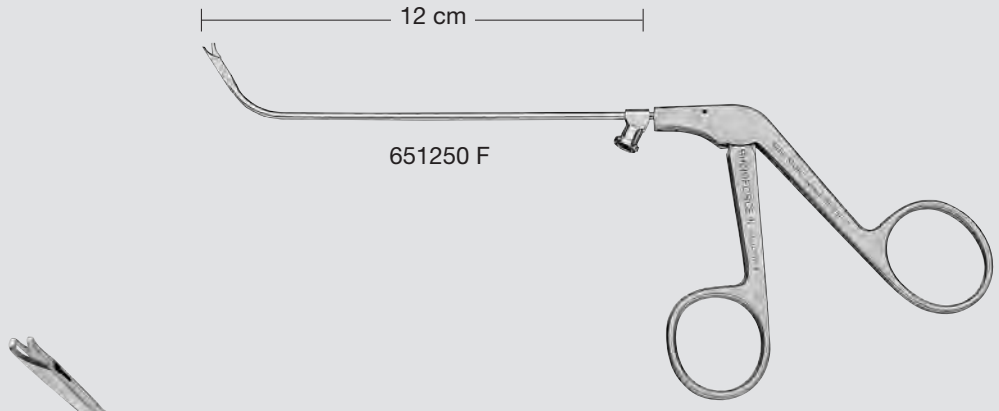


651231 KUHN-BOLGER **Double Spoon Giraffe Forceps,** 90° upturned, horizontal opening, spoon diameter 2 mm, with cleaning connector, working length 13 cm

651241 **Same,** vertical opening

3-99

KUHN **RHINOFORCE® II Frontal Sinus Forceps, flat jaws, through-cutting, straight tip**





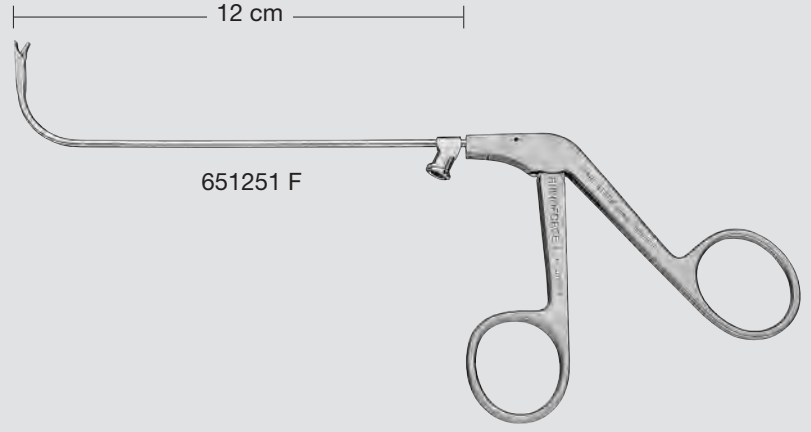
651250 F — KUHN **RHINOFORCE® II Frontal Sinus Forceps,** through-cutting, with extra fine flat jaws, tissue-sparing, sheath 60° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm



651250 FL — **Same,** left side opening



651250 FR — **Same,** right side opening

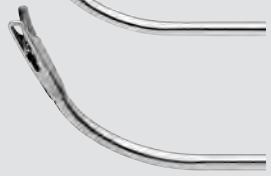




651251 F — KUHN **RHINOFORCE® II Frontal Sinus Forceps,** through-cutting, with extra fine flat jaws, tissue-sparing, sheath 90° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm



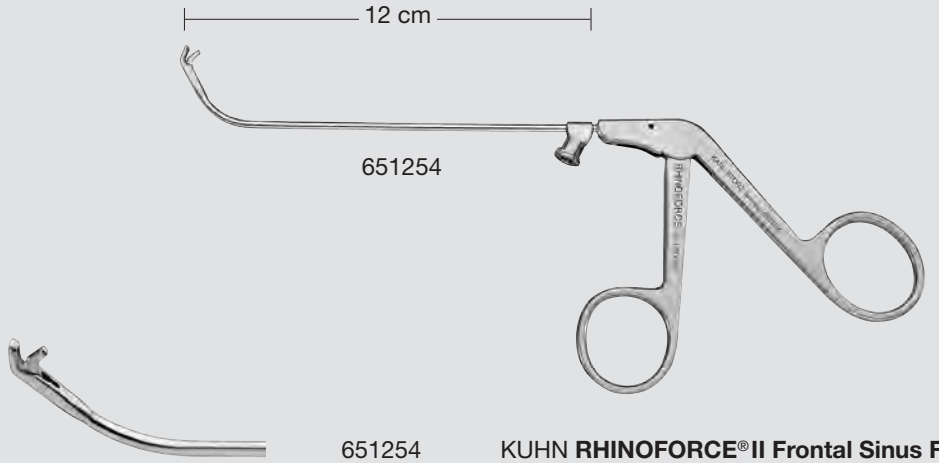
651251 FL — **Same,** left side opening



651251 FR — **Same,** right side opening

4-03$_2$

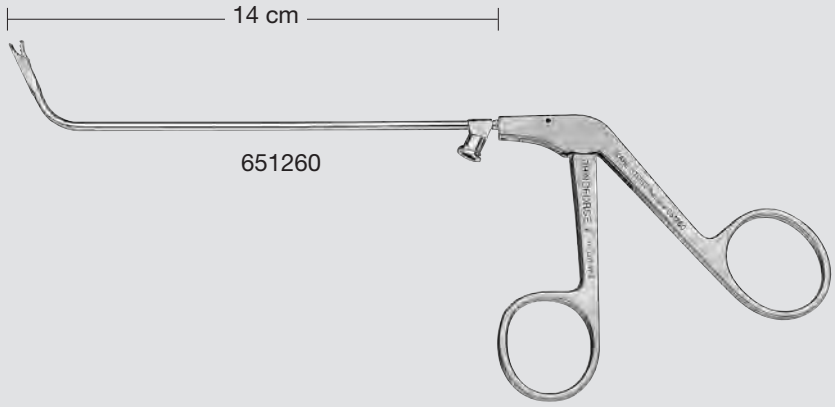
RHINOFORCE® II KUHN **Frontal Sinus Forceps, flat jaws, through-cutting**

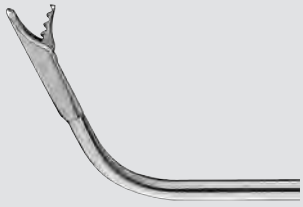


651254 KUHN **RHINOFORCE® II Frontal Sinus Forceps,** through-cutting, jaws angled 45°, extra fine flat jaws, tissue-sparing, sheath 60° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm

8-11

NICOLAI **RHINOFORCE®II Frontal Sinus Forceps, through-cutting**





651260 — NICOLAI **RHINOFORCE®II Frontal Sinus Forceps,** through-cutting, 65° upturned, height of distal sheath end 30 mm, width of cut 2 mm, square jaws, backward opening, inside of movable jaw with coarse serration, sheath diameter 3 mm, with cleaning connector, working length 14 cm



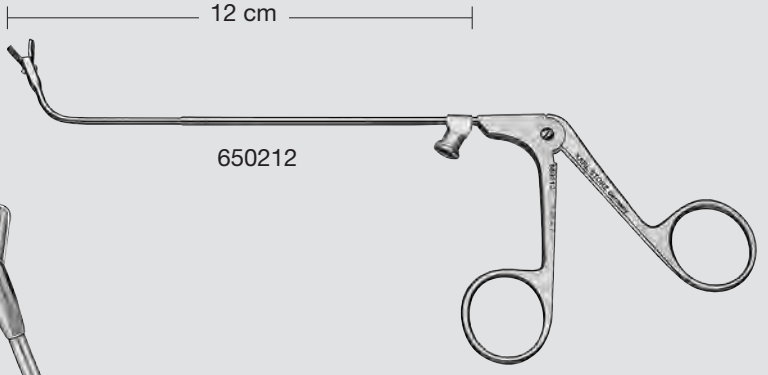
651260 L — **Same,** left side opening

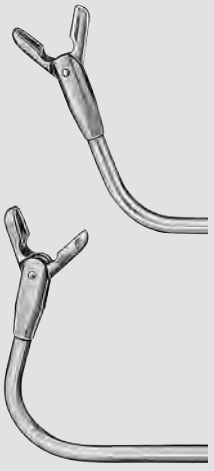


651260 R — **Same,** right side opening

4-03$_2$

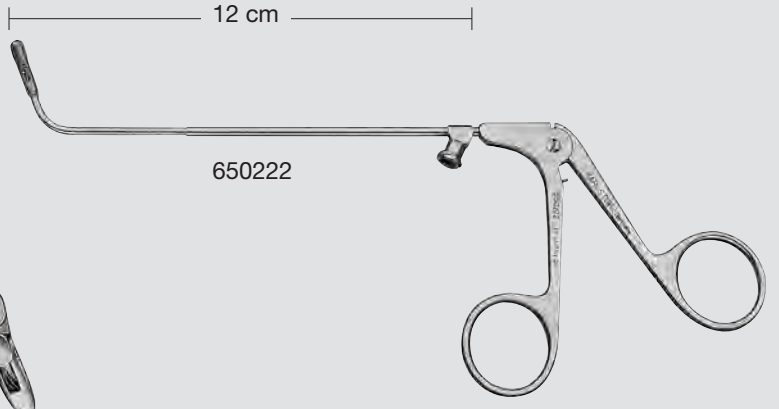
Double Spoon Forceps, cupped jaws





650212 **Double Spoon Forceps,** vertical opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

650217 **Same,** 110° curved backwards





650222 **Double Spoon Forceps,** horizontal opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

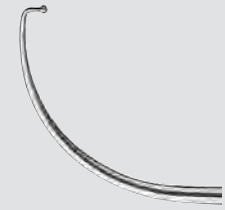
650227 **Same,** 110° curved backwards

3-99

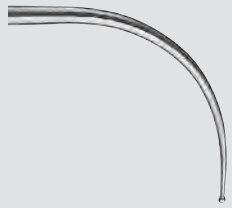
KUHN **Frontal Sinus Seeker**

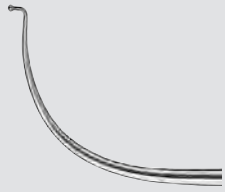


629827

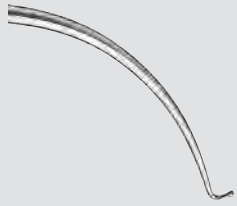


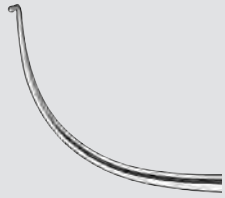
629826 KUHN **Frontal Sinus Seeker,** double-ended, No. 2, both sides curved 90°, one tip straight, one tip reverse angle, length 22 cm





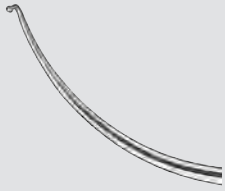
629827 KUHN **Frontal Sinus Seeker,** double-ended, No. 3, one side curved 77°, other side curved 90°, both tips forward angle, length 22 cm



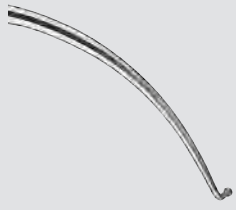


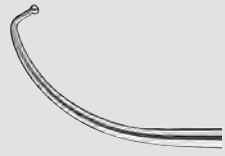
629828 KUHN **Frontal Sinus Seeker,** double-ended, No. 4, both sides curved 90°, tips angled right and left, length 22 cm





629829 KUHN **Frontal Sinus Seeker,** double-ended, No. 5, both sides curved 77°, tips angled right and left, length 22 cm





629830 KUHN **Frontal Sinus Seeker,** double-ended, No. 6, both sides curved 77°, one tip straight, other tip reverse angle, length 22 cm





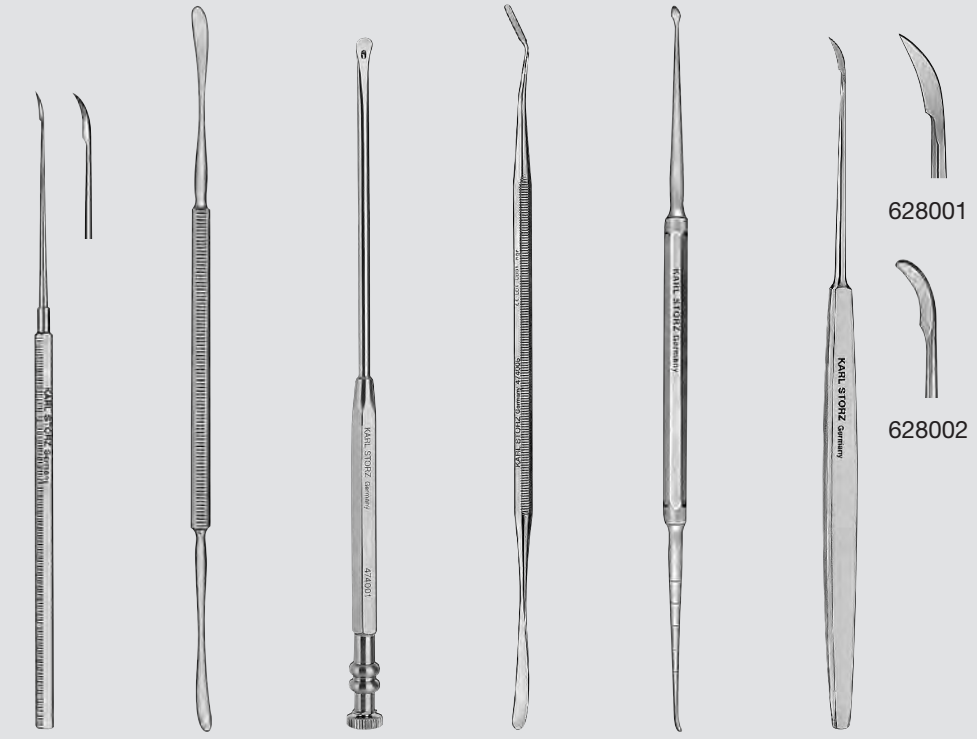
629835 **Seeker,** double-ended, straight, malleable, one tip with ball end, other tip without ball end and blunt, length 24 cm



4-03

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



223300 474000 474001 474005 479100

223300	PLESTER **Sickle Knife,** double-edged, standard model, slightly curved, length 16 cm
474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
474001	FREER **Suction Elevator,** with stylet, length 19 cm
474005	FREER-JACOBS **Elevator,** double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
479100	COTTLE **Elevator,** double-ended, semisharp and blunt, graduated, length 20 cm
628001	**Sickle Knife,** pointed, length 19 cm
628002	**Sickle Knife,** round, double-cutting, length 19 cm

3-99$_2$

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



628720 629820 629822 629823 629824 629910

628720	**Curette,** double-ended, oval, one side short curved 45°, semisharp, diameter 2.2 mm, other side long curved 90°, sharp, diameter 2.7 mm, length 19 cm
629820	**Probe,** double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
629822	CASTELNUOVO **Positioning Instrument,** double-ended, curved 80°/double curved, with 4 spikes, length 22 cm
629823	CASTELNUOVO **Positioning Instrument,** double-ended, straight/curved 60°, with 4 spikes, length 22 cm
629824	CASTELNUOVO **Frontal Sinus Probe,** double-ended, curved, length 22 cm
629910	STAMMBERGER **Plate Elevator,** closed blade diameter 10 mm, tip angled 30°, with suction channel, LUER, with round handle, length 25 cm

7-01

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



628601	**Antrum Curette,** oval, size 1, length 19 cm
628602	**Same,** size 2
628603	**Same,** size 3
628701	**Antrum Curette,** round, length 19 cm
628702	**Same,** oblong, small
628703	**Same,** oblong, large
628712	KUHN-BOLGER **Frontal Sinus Curette,** 55° curved, oval, forward cutting, length 19 cm
628714	**Same,** 90° curved
628715	KUHN-BOLGER **Frontal Sinus Curette,** elongated 90° curve, oblong, small, length 19 cm
629703	**Antrum Curette,** forward cutting, small, length 19 cm
629704	**Same,** backward cutting

3-99$_2$

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

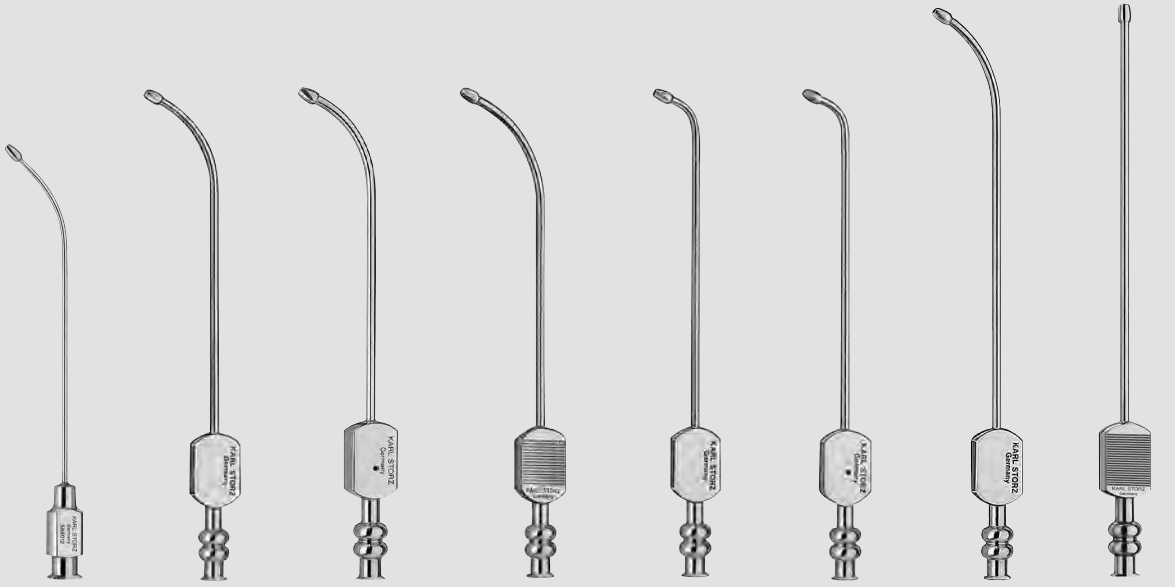


	223530	BEHRBOHM **Dissector,** for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm
	223535	**Same,** slightly curved spatula, straight, size 3 mm
	223540	**Same,** round spatula, tip angled 45°, size 3 mm
NEW	223532	BEHRBOHM **Dissector,** for dissection in the region of the paranasal sinuses, skull base and petrous bone, curved, sharp, flat long spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm
NEW	223537	**Same,** slightly curved spatula, size 3 mm
NEW	223542	**Same,** round spatula, tip angled 45°, size 3 mm
NEW	223533	BEHRBOHM **Snake Dissector**, specially for dissection in the region of the frontal sinuses, long curved, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 18 cm
NEW	223538	**Same,** slightly curved spatula, size 3 mm
NEW	223543	**Same,** round spatula, tip angled 45°, size 3 mm
NEW	529505	BEHRBOHM **Bullotome,** suction tube with conical tip, sharp, with cut-off hole and mandrel, angular, outer diameter 5 Fr., working length 10 cm, total length 17.5 cm
NEW	529507	**Same,** outer diameter 7 Fr.
NEW	529509	**Same,** outer diameter 9 Fr.

8-11

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



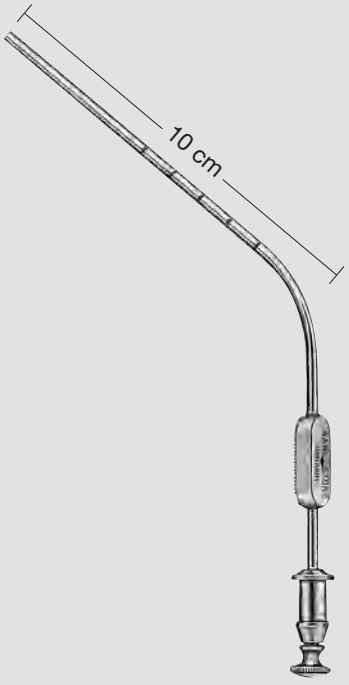
586012 – 586020 | 586025 – 586040 | 586026 586031 | 586125 586130 | 586225 – 586240 | 586226 – 586241 | 586325 – 586340 | 586525

586012	**Antrum Cannula,** LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm
586015	**Same,** with olive diameter 2.7 mm, outer diameter 1.5 mm
586020	**Same,** outer diameter 2 mm
586025	v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm
586030	**Same,** outer diameter 3 mm
586040	**Same,** outer diameter 4 mm
586026	v. EICKEN **Antrum Cannula,** LUER-Lock, with cut-off hole, long curved, outer diameter 2.5 mm, length 12.5 cm
586031	**Same,** outer diameter 3 mm
586125	v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
586130	**Same,** outer diameter 3 mm
586225	v. EICKEN **Antrum Cannula,** LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm
586230	**Same,** outer diameter 3 mm
586240	**Same,** outer diameter 4 mm
586226	v. EICKEN **Antrum Cannula,** LUER-Lock, with cut-off hole, short curved, outer diameter 2.5 mm, length 12.5 cm
586231	**Same,** outer diameter 3 mm
586241	**Same,** outer diameter 4 mm
586325	v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm
586330	**Same,** outer diameter 3 mm
586340	**Same,** outer diameter 4 mm
586525	**Antrum Cannula,** LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm

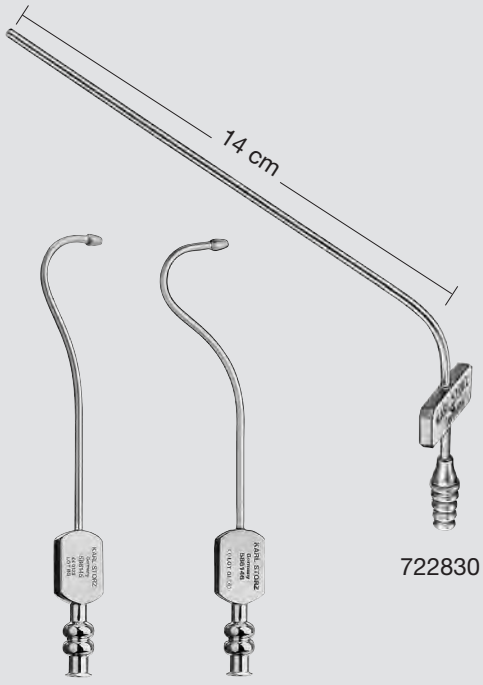
3-99$_3$

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



529305 – 529309



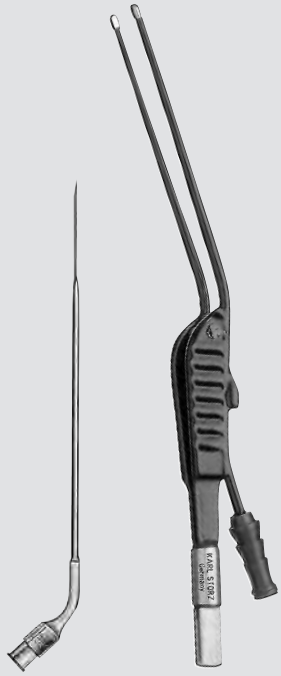
586145

586146

722830



722925



810506 843219

529305	FRAZIER **Suction Tube,** with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 5 Fr., working length 10 cm
529307	**Same,** 7 Fr.
529309	**Same,** 9 Fr.
586145	v. EICKEN-CASTELNUOVO **Antrum Cannula,** LUER-Lock, S-shaped slightly curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
586146	**Same,** strongly curved
722830	**Suction Tube,** angular, with grip plate and cut-off hole, LUER, outer diameter 3 mm, working length 14 cm
722925	**Suction Tube,** conical, malleable, with finger grip plate, LUER-Lock, outer diameter 2.5 mm, working length 13 cm
810506	**Septum Needle,** angular, LUER-Lock
843219	**Bipolar Coagulation Forceps,** insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm

4-03₁

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



403240 – 403290



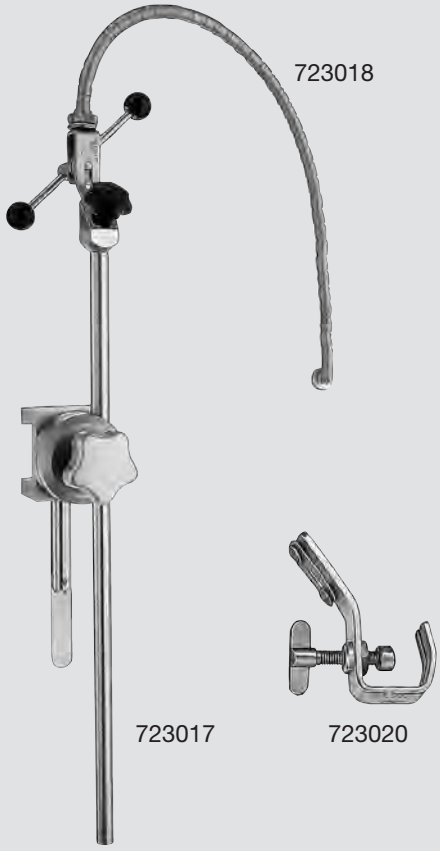
404455 – 404490



404555 – 404590

403240	KILLIAN-STRUYCKEN **Nasal Speculum,** with set rack, blade length 40 mm, length 15 cm
403255	**Same,** blade length 55 mm
403265	**Same,** blade length 65 mm
403275	**Same,** blade length 75 mm
403290	**Same,** blade length 90 mm
404455	RUDERT **Nasal Speculum,** for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
404465	**Same,** left blade length 65 mm
404475	**Same,** left blade length 75 mm
404490	**Same,** left blade length 90 mm
404555	RUDERT **Nasal Speculum,** for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
404565	**Same,** right blade length 65 mm
404575	**Same,** right blade length 75 mm
404590	**Same,** right blade length 90 mm

5-95$_4$



For use with Nasal Specula 404455 – 404475, 404555 – 405575

723017	**Rotating Clamp,** with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail
723018	**Flexible Tension Arm,** length 50 cm
723020	**Connector,** for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

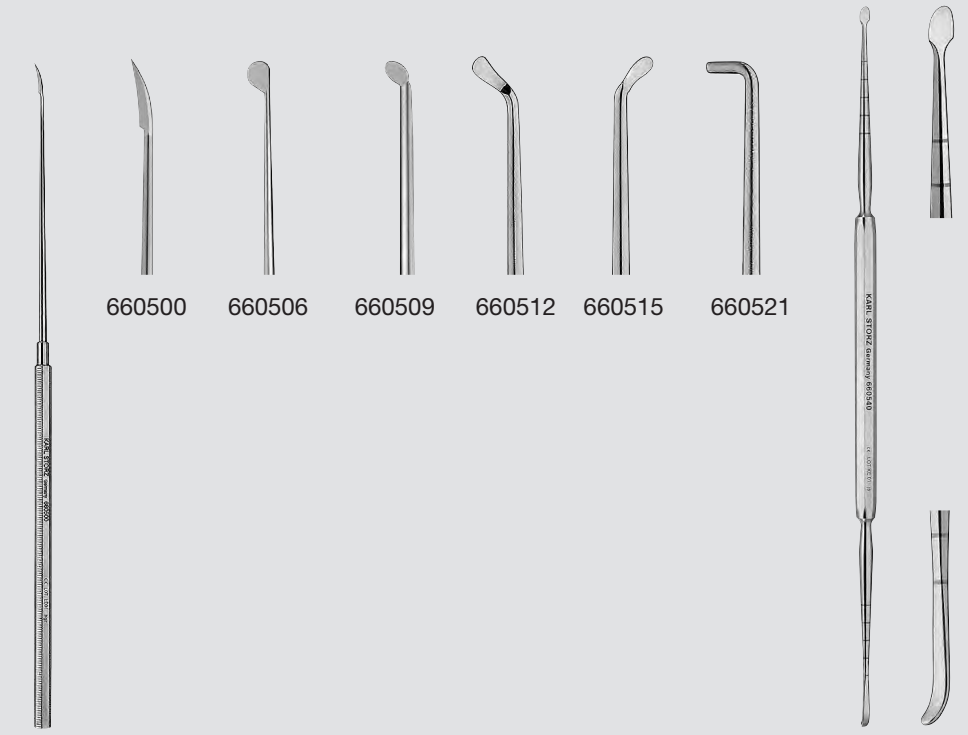
The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

4-03$_2$

Components/Spare Parts see chapter 16

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Prof. MESSERKLINGER **and** Prof. STAMMBERGER



660500 660506 660509 660512 660515 660521

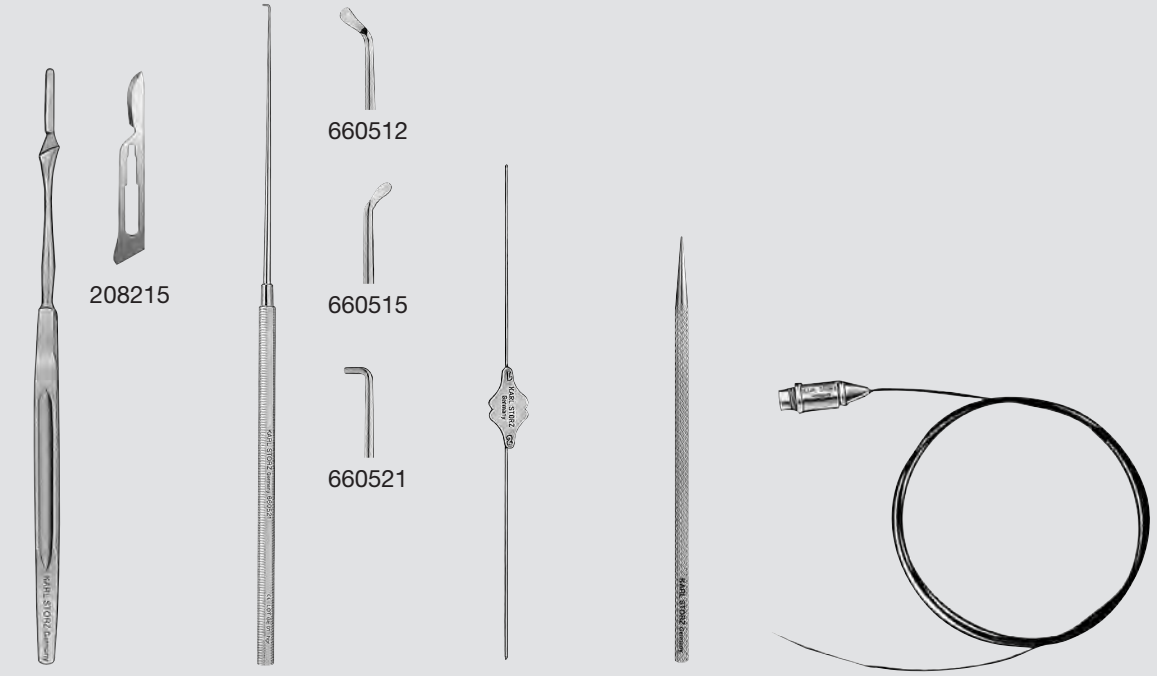
660500 660540

660500	**Sickle Knife,** slightly curved, pointed, length 18 cm
660506	**Round Knife,** vertical cutting, 3.5 x 2.5 mm, length 18 cm
660509	**Round Knife,** angled 45°, diameter 2 mm, length 18 cm
660512	**Elevator,** sharp, curved to right, length 18 cm
660515	**Elevator,** sharp, curved to left, length 18 cm
660521	**Hook,** 90°, blunt, length 18 cm
660540	**Elevator,** double-ended, blunt, graduated, length 20 cm

7-01₁

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Prof. CASTELNUOVO



748000	**Surgical Handle,** Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
208215	**Blade,** Fig. 15, sterile, package of 100
660521	**Hook,** 90°, blunt, length 18 cm
660512	**Elevator,** sharp, curved to right, length 18 cm
660515	**Elevator,** sharp, curved to left, length 18 cm
634840	BOWMAN **Lachrymal Probe,** length 13 cm including: **Probe,** size 0000 – 000 **Probe,** size 00 – 0 **Probe,** size 1 – 2
745900	WILDER **Dilator,** for salivary duct, length 11 cm
496 V	**Lachrymal Probe,** for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

8-11

Components/Spare Parts see chapter 16

Probe for Diaphanoscopic Localization of the Nasolacrimal Ducts

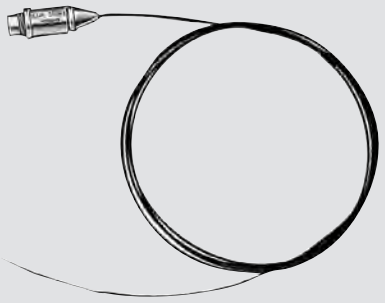
Dacryocystorhinostomy acc. to SIEGERT/WEERDA

The obstructed nasolacrimal ducts have to be represented intraoperatively for dacryocystorhinostomy. However, intraoperative endonasal localization of the pathologically changed ducts may prove difficult, due to the considerable anatomical variations from one patient to the next. The instruments for representation of the nasolacrimal duct comprise a light source, a light guide and a special optical probe with a distal diameter of 0.5 mm.

For endonasal dacryocystorhinostomy, the sterile distal end of the optical probe is introduced into the lacrimal sac, or up to the point of the blockage, through the upper or lower lacrimal point. The spot of light visible at the end of the light guide “marks” the nasal end of the clear lacrimal duct. It is advisible to briefly turn down the external lights in the operating room at first in order to locate the nasolacrimal duct while the lacrimal sac is still covered by considerable tissue.

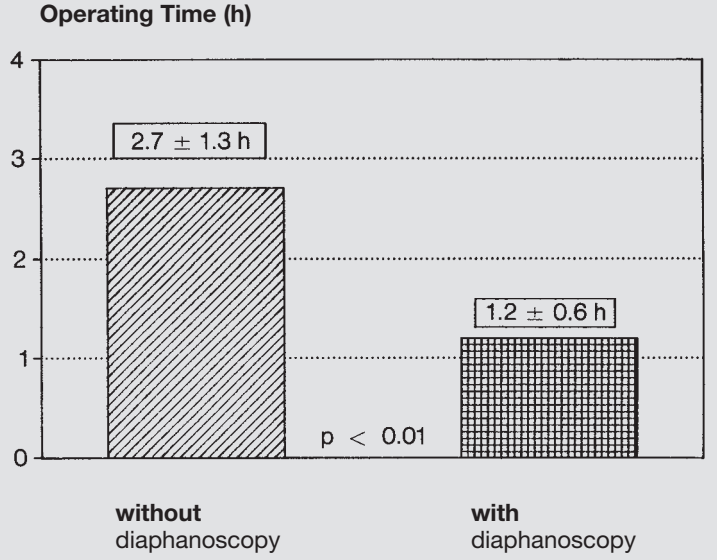
A study on such operations has shown that the times required for surgery can be significantly reduced by around 50% with the aid of diaphanoscopic localization.

On the whole, this is a simple, practical and useful complementary imaging for dacryocystorhinostomy which supports rapid surgery without undue damage to the tissue.



496 V

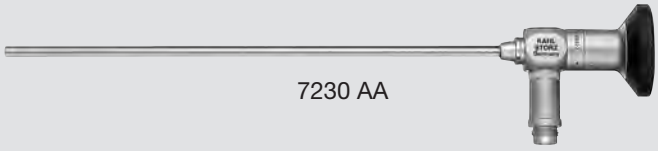
Lachrymal Probe, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3



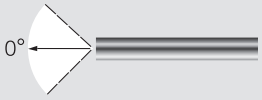
3-99

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG



7230 AA



7230 AA — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green



7230 BA — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red



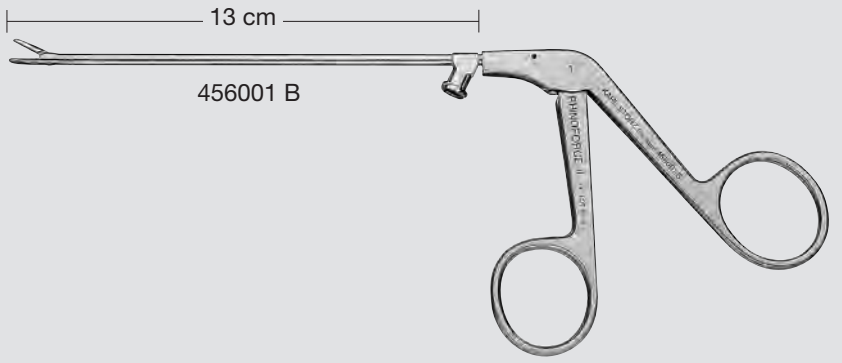
479100 628001 628702 660506 660509

479100	COTTLE **Elevator,** double-ended, semisharp and blunt, graduated, length 20 cm
628001	**Sickle Knife,** pointed, length 19 cm
628702	**Antrum Curette,** oblong, small, length 19 cm
660506	**Round Knife,** vertical cutting, 3.5 x 2.5 mm, length 18 cm
660509	**Round Knife,** angled 45°, diameter 2 mm, length 18 cm

7-01

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG





456001 B — BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight, size 1, with cleaning connector, working length 13 cm



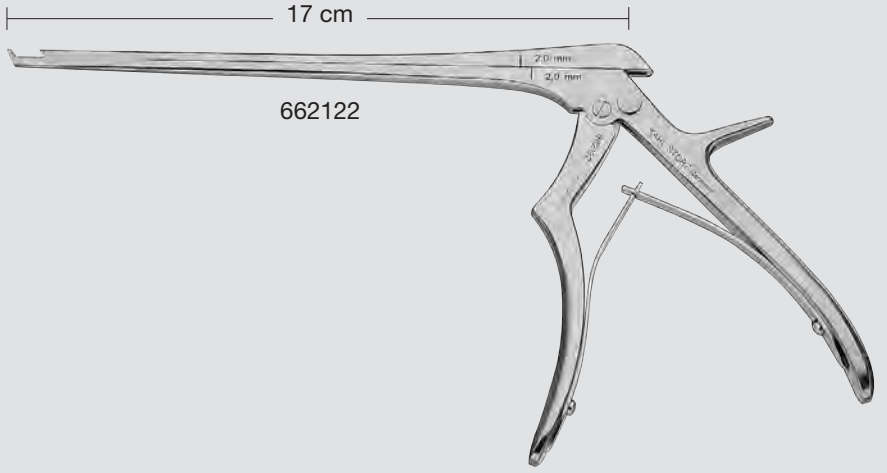
456501 B — BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned, size 1, with cleaning connector, working length 13 cm



452002 B — MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Cutting Forceps,** straight, through-cutting, extra delicate, tissue-sparing, 11.5 x 3.5 mm, size 2, with cleaning connector, working length 13 cm



451500 B — GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps,** 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



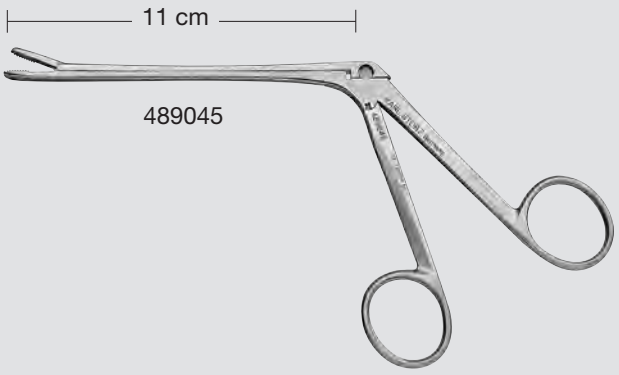


NEW 662122 — KERRISON **Bone Punch,** detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm

7-01

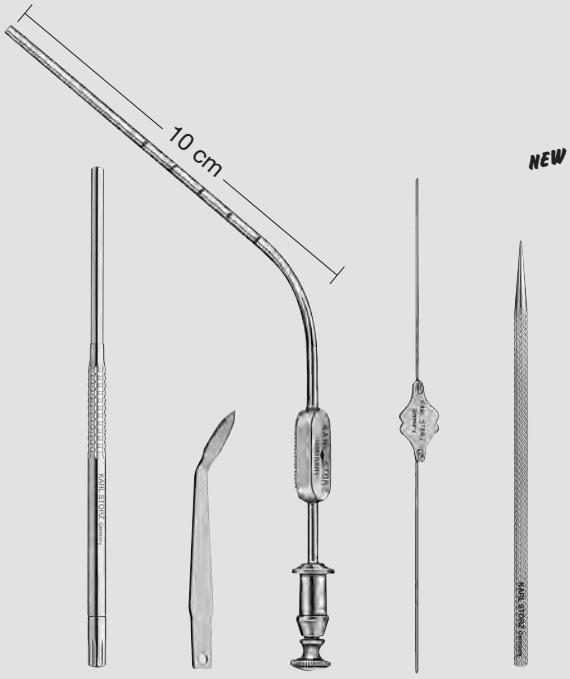
Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG





489045 FERRIS-SMITH **Nasal Forceps,** serrated, working length 11 cm



496550 496770 529307 634840 745900

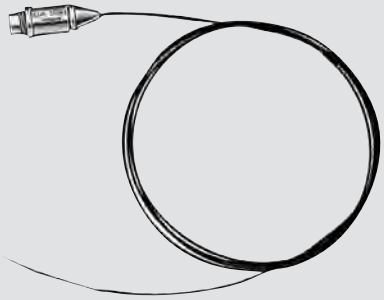
NEW 496550 **Surgical Handle,** for miniature blades, round, length 16.5 cm, for Blades 496764 – 65

496770 **Miniature Blade,** angled 45°, pointed, sterile, width 3 mm, package of 3

529307 FRAZIER **Suction Tube,** with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 7 Fr., working length 10 cm

634840 BOWMAN **Lachrymal Probe,** length 13 cm
including:
Probe, size 0000 – 000
Probe, size 00 – 0
Probe, size 1 – 2

745900 WILDER **Dilator,** for salivary duct, length 11 cm

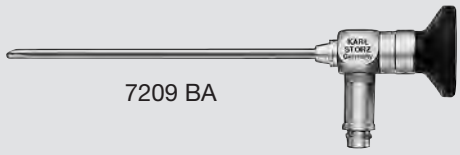


496 V **Lachrymal Probe,** for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

7-01₁

Components/Spare Parts see chapter 16

Additional instruments and units



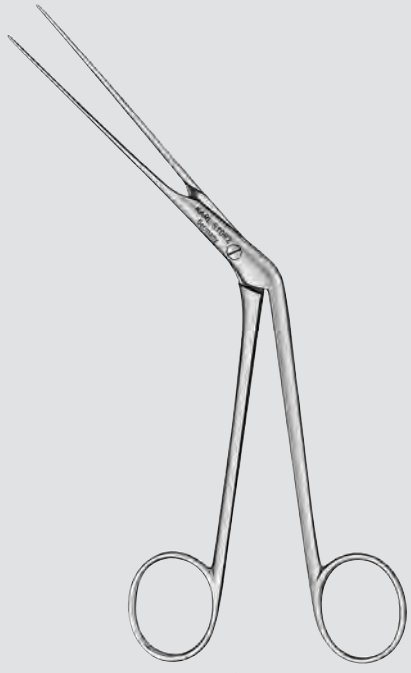
7209 BA



7209 BA **HOPKINS® Forward-Oblique Telescope 30°,** diameter 3 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red



404040
404055



430300

404040 **Nasal Speculum,** with fiber optic light carrier, blade length 40 mm, length 13.5 cm

404055 **Nasal Speculum,** with fiber optic light carrier, blade length 55 mm, length 13.5 cm

430300 LUBET-BARBON **Nasal Dressing Forceps,** serrated, working length 10.5 cm

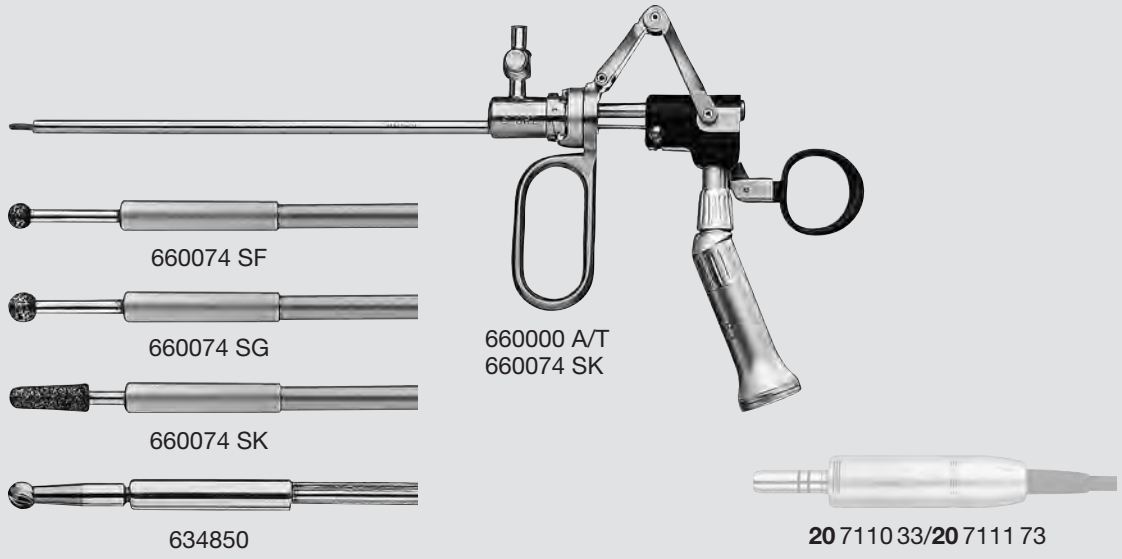
7-01

Components/Spare Parts see chapter 16

Instruments for Endonasal Dacryocystorhinostomy

KARL STORZ — ENDOSKOPE

Additional instruments and units



660000	STAMMBERGER-SACHSE **Intranasal Drill,** for decompression of the optic nerve and for fine grinding work in ethmoidal skull base area, for use with EC micro motor including: **Double Ring Sliding Handle,** for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece **Guide Sheath,** outer diameter 5 mm, with irrigation stopcock **Diamond Abrador,** delicate, spherical, diameter 2.5 mm **Diamond Abrador,** delicate, spherical, diameter 3 mm **Diamond Abrador,** delicate, conical, from diameter 2.5 mm to diameter 3 mm
634850	JONES **DCR Cutting Burr,** for endonasal dacryocystorhinostomy, tungsten carbide, diameter 2.7 mm, length 22 cm, for use with Intranasal Drill 660000

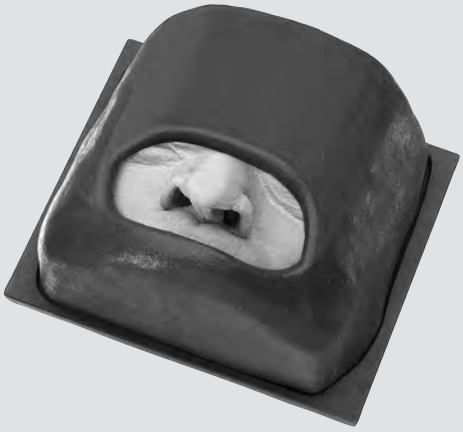
7-01$_2$

For use with Motor Systems see pages 205-212
High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7110 73 see page 209
Components/Spare Parts see chapter 16

FESS Training Model

Special Features:

- **Exact reproduction of the human skull**
- **Special material provides tactile feedback**
- **For beginners and advanced levels**
- **More accessible than human anatomical specimens**
- **For countries where dissection of corpses is prohibited**
- **All sections available separately**



723128 **Training Model,** for endoscopy of the nose and paranasal sinuses

including:

Section Plane 1: Front Plate
Section Plane 2: Turbinate/Septum
Section Plane 3: Maxillary Sinus
Section Plane 4: Ethmoidal Cells
Section Plane 5: Sphenoidal Sinus
Base Plate
Mask
Case
Documentation Atlas

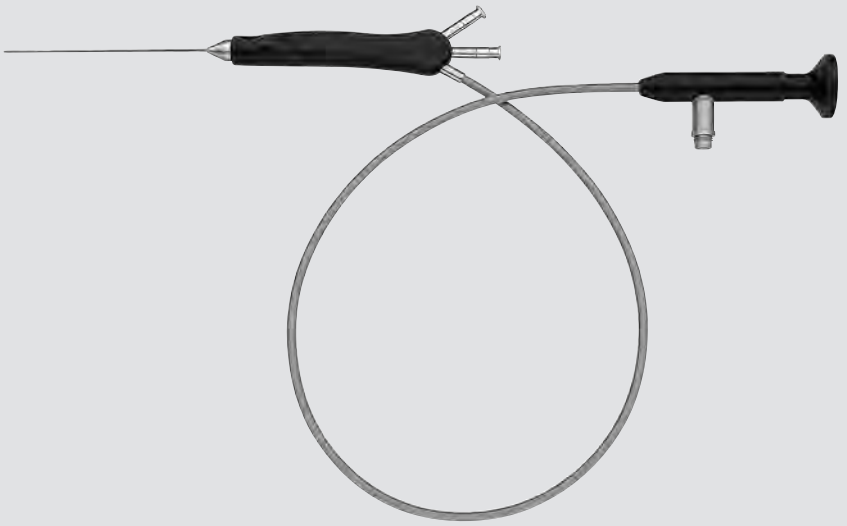
7-01₁

Components/Spare Parts see chapter 16



TELESCOPES AND INSTRUMENTS FOR SIALENDOSCOPY

ALL-IN-ONE Miniature Endoscopes, ERLANGEN model



11573 A

11572 A **Miniature Straight Forward Telescope 0°,** diameter 0.8 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable,** irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

11573 A **Miniature Straight Forward Telescope 0°,** diameter 1.1 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable,** working channel diameter 0.45 mm, irrigation channel diameter 0.25 mm, length 140 cm, remote eyepiece, fiber optic light transmission incorporated

for use with:
– Stone Extractor 11582 M/11573 NP
– Micro Burr 11573 MB
– Guide Wire 745725
– Laser Probe

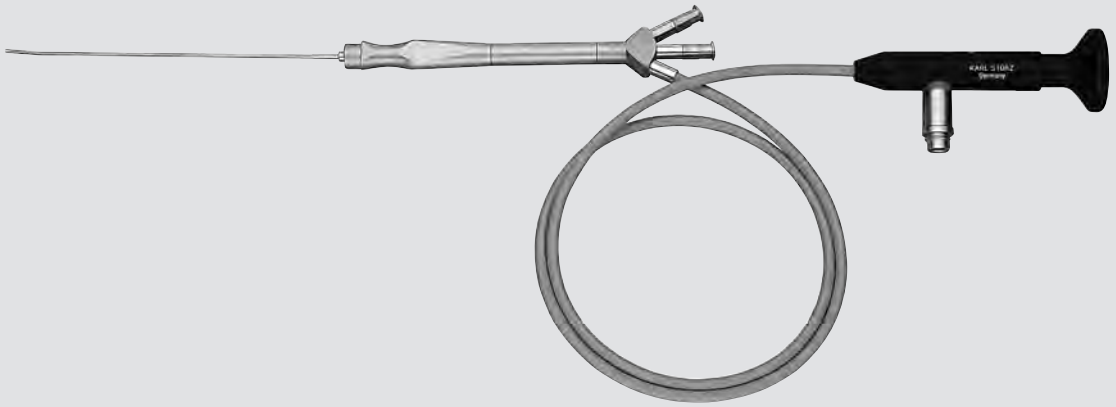
11574 A **Miniature Straight Forward Telescope 0°,** diameter 1.6 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable,** working channel diameter 0.85 mm, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

for use with:
– Stone Extractor 11582 M/11573 NP
– Micro Burr 11574 MB
– Foreign Body Forceps 11574 TJ
– Biopsy Forceps 11574 ZJ
– Guide Wire 745720
– Laser Probe
– Balloon Catheter 11583 BP

7-071

Instruments, Sterilization and Storage Trays see pages 326-332

MARCHAL **ALL-IN-ONE Miniature Endoscopes**



11575 A

11575 A **Miniature Straight Forward Telescope 0°,** diameter 1.3 mm, working length 12 cm, semirigid, **autoclavable,** distal angle 5°, working channel diameter 0.65 mm, irrigation channel diameter 0.25 mm, length 100 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P

for use with:
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Laser Probe

11581 A **Miniature Straight Forward Telescope 0°,** diameter 0.89 mm, working length 12 cm, semirigid, **autoclavable,** distal angle 5°, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P

11582 A **Miniature Straight Forward Telescope 0°,** diameter 1.1 mm, working length 12 cm, semirigid, **autoclavable,** distal angle 5°, working channel 0.45 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated

for use with:
– Stone Extractor 11582 M/11573 NP
– Guide Wire 745725
– Laser Probe

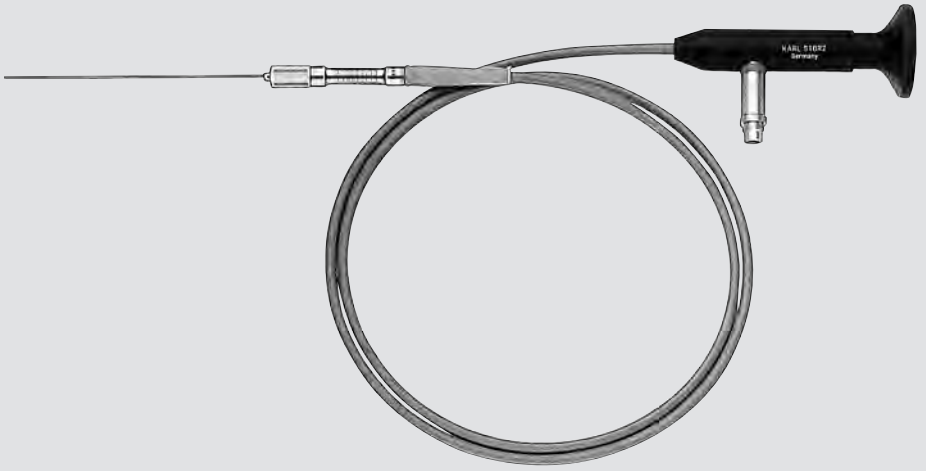
11583 A **Miniature Straight Forward Telescope 0°,** diameter 1.6 mm, working length 12 cm, semirigid, **autoclavable,** distal angle 5°, working channel 0.8 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P

for use with:
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Grasping Forceps 11583 TJ
– Biopsy Forceps 11583 ZJ
– Laser Probe
– Balloon Catheter 11583 BP

Instruments, Sterilization and Storage Trays see pages 326-332

2-04₂

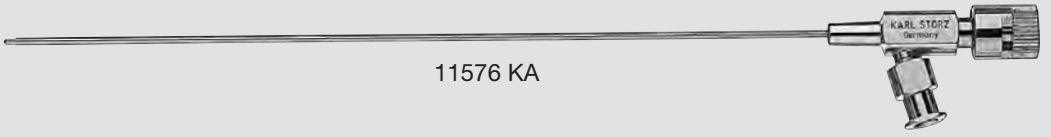
Miniature Endoscopes for Children and Adolescents
Modular System according to Dr. MARCHAL



11576 A

11576 A **Miniature Straight Forward Telescope 0°,** diameter 0.75 mm, working length 16 cm, semirigid, **autoclavable,** length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath



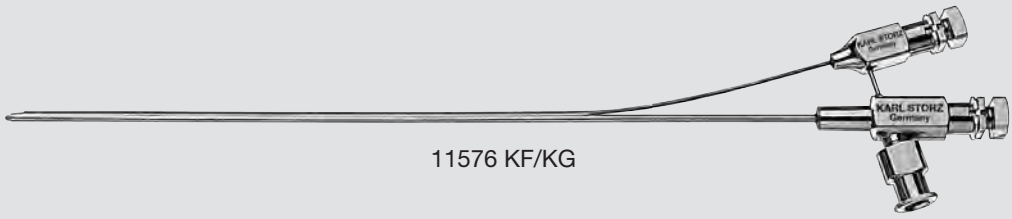
11576 KA

11576 KA **Examination Sheath,** diameter 1.1 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11576 A

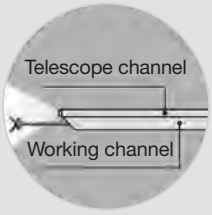
2-04₂

Miniature Endoscopes for Children and Adolescents
Modular System according to Dr. MARCHAL

Operating Sheath



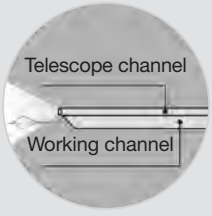
11576 KF/KG



11576 KF **Operating Sheath,** oval, diameter 1.1 and 1.3 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

– Miniature Straight Forward Telescope 11576 A
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Balloon Catheter 11577 BP
– Grasping Forceps 11576 TJ
– Biopsy Forceps 11576 ZJ
– Laser Probe



11576 KG **Operating Sheath,** oval, diameter 1.1 and 0.8 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

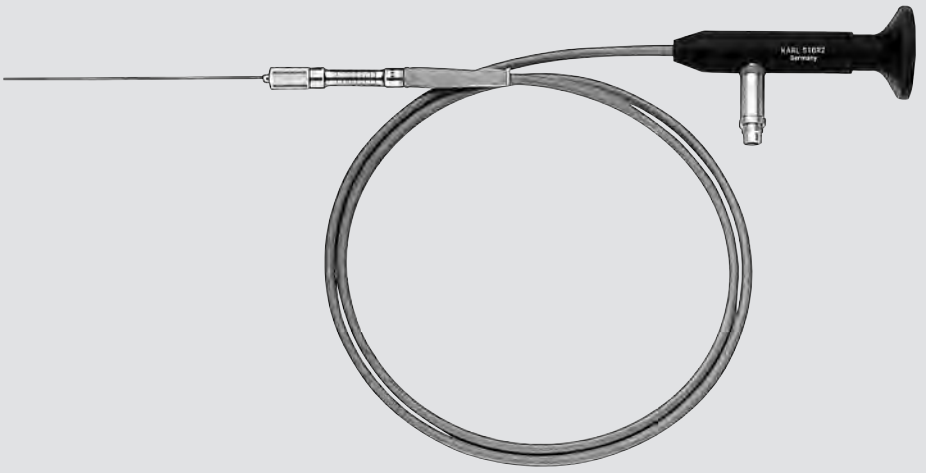
for use with:

– Miniature Straight Forward Telescope 11576 A
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Laser Probe

7-07₁

Instruments see pages 326-332

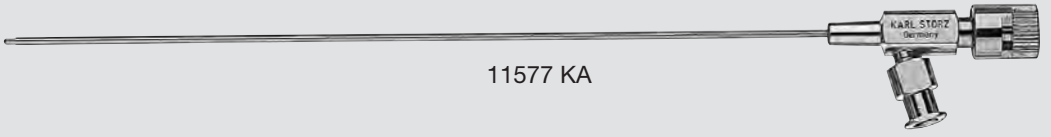
Miniature Endoscopes for Adults
Modular System according to Dr. MARCHAL



11577 A

11577 A **Miniature Straight Forward Telescope 0°,** diameter 1 mm, working length 16 cm, semirigid, autoclavable, length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath



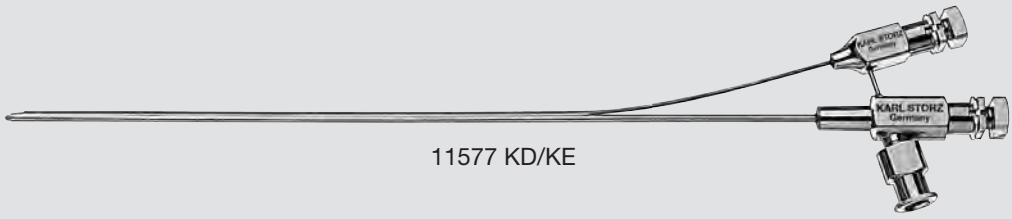
11577 KA

11577 KA **Examination Sheath,** diameter 1.3 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11577 A

2-04₂

Miniature Endoscopes for Adults
Modular System according to Dr. MARCHAL

Operating Sheath



11577 KD/KE



11577 KE **Operating Sheath,** oval, diameter 1.3 and 1.3 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

– Miniature Straight Forward Telescope 11577 A
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Balloon Catheter 11577 BP
– Grasping Forceps 11576 TJ
– Biopsy Forceps 11576 ZJ
– Laser Probe



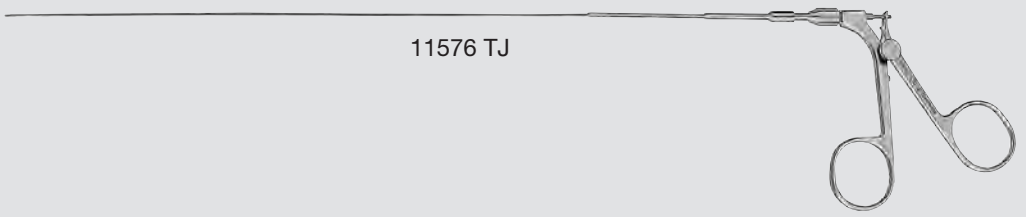
11577 KD **Operating Sheath,** oval, diameter 1.3 and 0.8 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

– Miniature Straight Forward Telescope 11577 A
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Laser Probe

7-07₁

Forceps



11576 TJ



11576 TJ — **Foreign Body Forceps,** flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



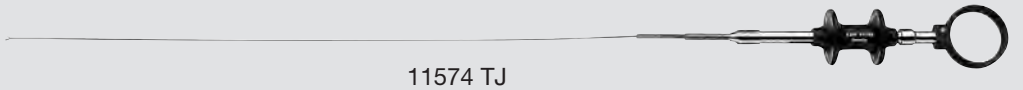
11576 ZJ — **Biopsy Forceps,** flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



11583 TJ — **Foreign Body Forceps,** flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A



11583 ZJ — **Biopsy Forceps,** flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A



11574 TJ



11574 TJ — **Foreign Body Forceps,** flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A



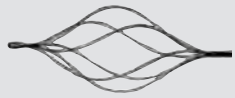
11574 ZJ — **Biopsy Forceps,** flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A

8-11

Stone Extractors, Balloon Catheters, Guide Wires, Burrs



11575 K — **Stone Extractor,** diameter 0.6 mm, basket with 3 wires, sterile, for single use



11575 L — **Stone Extractor,** diameter 0.6 mm, basket with 6 wires, sterile, for single use



11582 M — **Stone Extractor,** diameter 0.4 mm, basket with 4 wires, sterile, for single use



NEW 11573 NP — **Front-loading Stone Extractor,** without handle, diameter 0.4 mm, length 35 cm, basket with 4 wires, sterile, for single use, package of 10



11577 BP — **Balloon Catheter,** diameter 0.9 mm, sterile, for single use, package of 10, for use with Operating Sheaths 11576 KF, 11577 B and 11577 KE



NEW 11583 BP — **Balloon Catheter,** diameter 0.7 mm, sterile, for single use, package of 10, for use with Telescopes 11574 A and 11583 A

745720 — **Guide Wire,** diameter 0.6 mm, sterile, for single use, package of 10, for use with Bougies 745710 – 745713

745725 — **Guide Wire,** diameter 0.4 mm, sterile, for single use, package of 10, for use with Bougies 745808 – 745713



NEW 11573 T — **Stone Extractor,** diameter 0.6 mm, basket with 4 wires, tipless, handle for fixation to endoscope



NEW 11573 M — **Stone Extractor,** diameter 0.4 mm, basket with 4 wires, handle for fixation to endoscope

NEW 11573 MB — **Micro Burr for Salivary Stones,** diameter 0.38 mm, for use with Telescopes 11573 A and 11582 A

NEW 11574 MB — **Micro Burr for Salivary Stones,** diameter 0.8 mm, for use with Telescopes 11574 A and 11583 A

8-11

Forceps and Angled Scissors



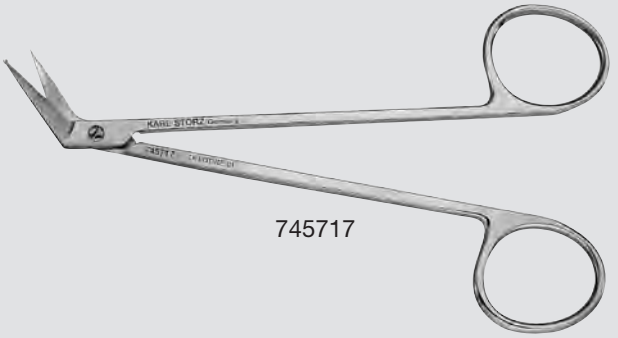
745715



745715 **Dressing Forceps,** angled,
length 15 cm



745716 **Tissue Forceps,** angled,
with 1 x 2 teeth, length 15 cm



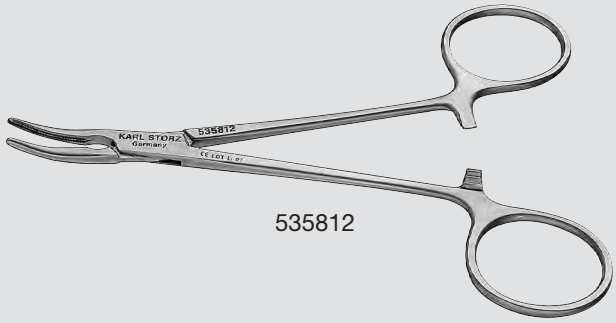
745717

745717 **Angled Scissors for Salivary Gland,**
with bulb, length 14 cm

745719 METZENBAUM **Scissors,** for sialolithotomy,
curved, sharp/sharp, length 18 cm

2-04

Artery Forceps



535812

535812	DE BAKEY **“Mosquito” Artery Forceps,** atraumatic, curved, length 12 cm

Mouth Gag



58195



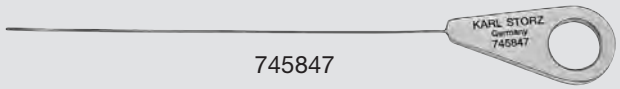
58194	MOLT **Mouth Gag,** large model, length 14 cm



58195	DEHNHARDT **Mouth Gag,** length 12.5 cm

Dilation Instruments

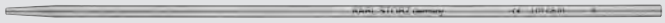
Salivary Duct Probes



745847

745847	size 0000	745853	size 3
745848	size 000	745854	size 4
745849	size 00	745855	size 5
745850	size 0	745856	size 6
745851	size 1	745857	size 7
745852	size 2	745858	size 8

MARCHAL **Bougies**



745710

745708	MARCHAL **Bougie,** diameter 1 mm, for use with Guide Wire 745725
745709	**Same,** diameter 1.5 mm
745710	MARCHAL **Bougie,** diameter 2 mm, for use with Guide Wire 745720 and 745725
745711	**Same,** diameter 2.5 mm
745712	**Same,** diameter 3 mm
745713	**Same,** diameter 3.5 mm

Dilators



745910



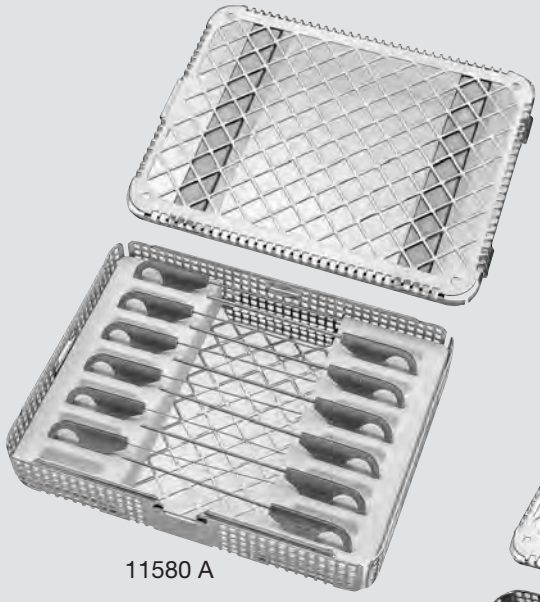
745920



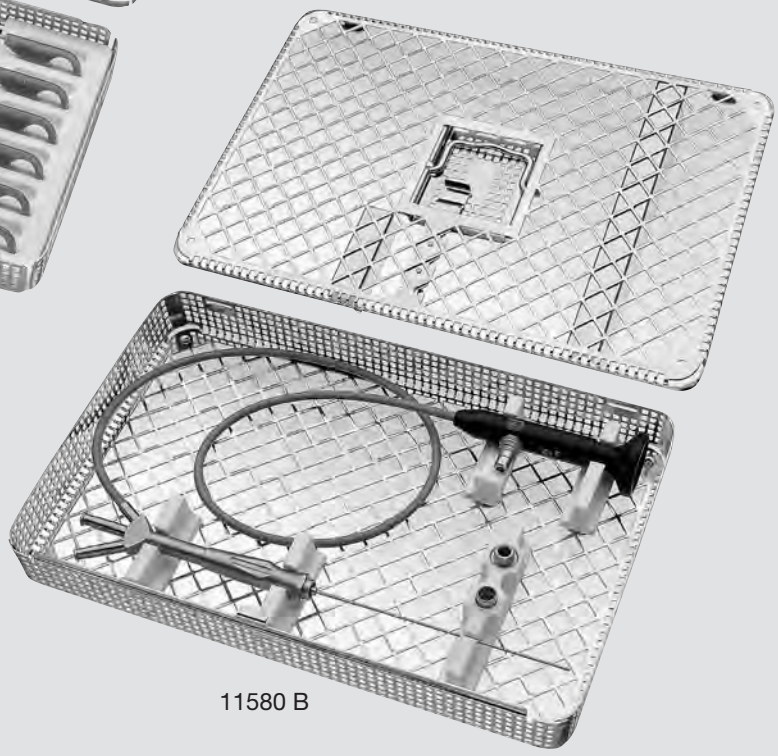
745900

745905	**Dilator,** for salivary duct (Wharton duct), very pointed
745910	**Dilator,** for salivary duct, length 14 cm
745920	**Dilator,** for salivary duct, size 1, diameter 0.5 – 0.8 mm, length 11.5 cm
745921	**Same,** size 2, diameter 0.7 – 1 mm
745922	**Same,** size 3, diameter 0.9 – 1.2 mm
745923	**Same,** size 4, diameter 1 – 1.6 mm
745924	**Same,** size 5, diameter 1.3 – 1.8 mm
745900	WILDER **Dilator,** for salivary duct, length 11 cm

8-11



11580 A

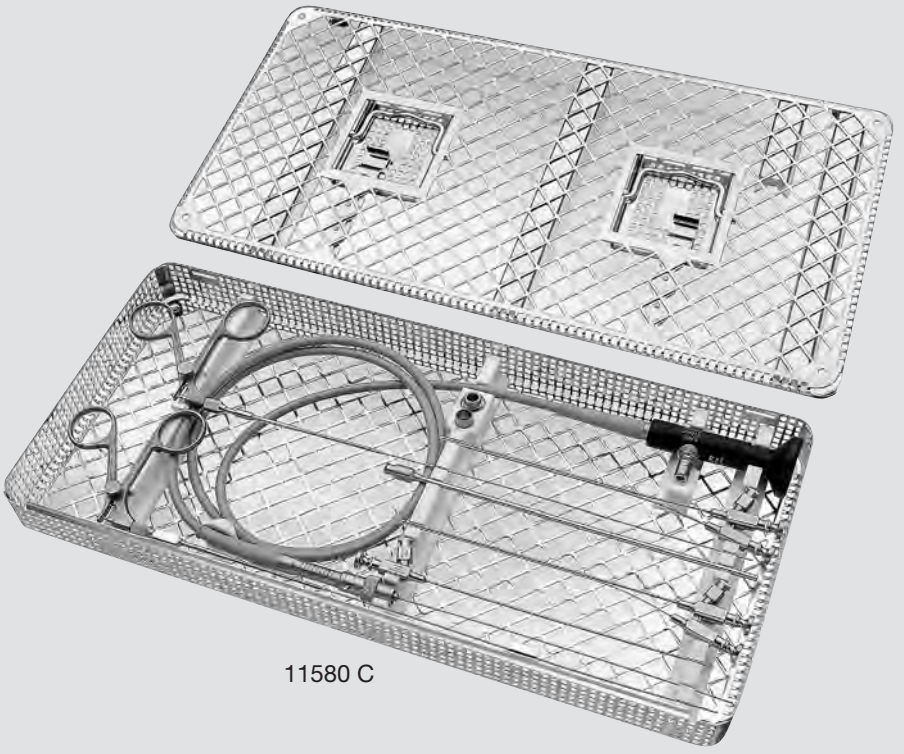


11580 B

11580 A	**Metal Tray,** for sterilization and storage of Salivary Duct Probes 745847 – 745858 and Dilator 745910, perforated, lid with silicone bridges, external dimensions (w x d x h): 178 x 135 x 37 mm
11580 B	**Metal Tray,** for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A, 11583 A, 11578 A or 5800, perforated, lid with silicone bridges, with port for irrigation connector, external dimensions (w x d x h): 275 x 178 x 35 mm

7-071

Please note: The instruments displayed are not included in the metal trays.



11580 C

11580 C	**Metal Tray,** for sterilization and storage of one Miniature Straight Forward Telescope 11576 A or 11577 A and two Micro Burrs 11573 MB and 11574 MB, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm
11580 D	**Metal Tray,** for sterilization and storage of one Miniature Straight Forward Telescope 11572 A – 11574 A, perforated, lid with silicone bridges, with port for irrigation adaptor, external dimensions (w x d x h): 275 x 175 x 37 mm
11580 J	**Metal Tray,** for sterilization and storage of two Foreign Body Forceps 11574 TJ and 11574 ZJ as well as two Burrs 11573 MB and 11574 MB for sialendoscopy, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm

Cleaning

27651 K1	**Cleaning Brush,** round, flexible, for working channel diameter 0.4 – 0.6 mm, length 40 cm, for single use, package of 10
27651 K2	**Same,** for working channel diameter 0.6 – 0.8 mm
27651 K3	**Same,** for working channel diameter 0.8 – 1.4 mm
27651 K5	**Same,** for working channel diameter 0.25 – 0.4 mm

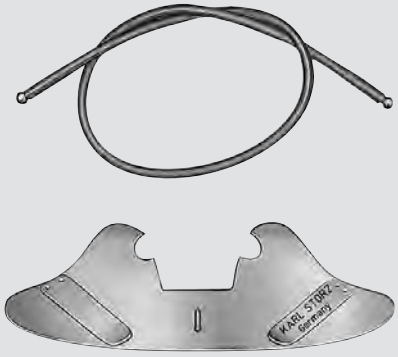
Lithotripsy of Salivary Stones
Extracorporal shock wave lithotripsy for salivary stones with STORZ MINILITH SL 1
see catalog Oral and Maxillofacial Surgery

Please note: The instruments displayed are not included in the metal trays.

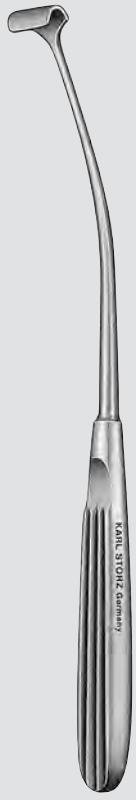
7-07₁



ADENOIDECTOMY – NASOPHARYNX
TONSILLECTOMY – MOUTH
TRACHEOSTOMY – LARYNX



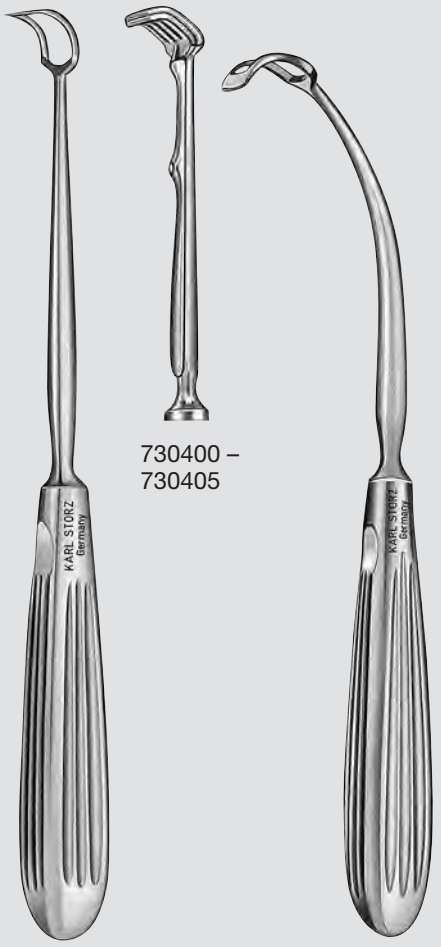
725000



746700

725000	HOPMANN **Uvula Retractor,** length 12.5 cm
746700	NAGER **Pillar Retractor,** length 21 cm

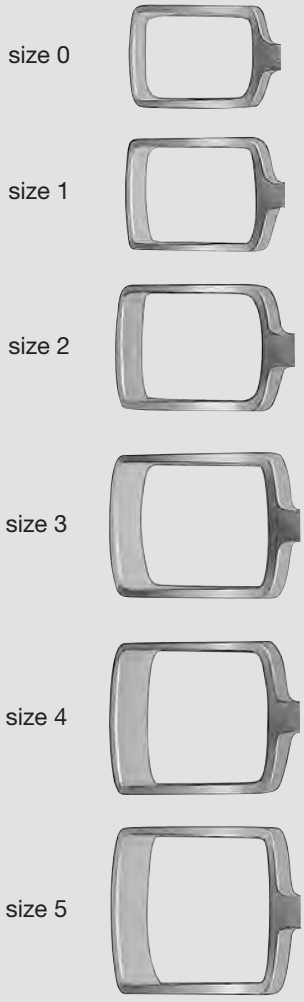
3-993



730400 –
730405

730000 –
730005

731000 –
731005



730000	BECKMANN **Adenoid Curette,** straight, size 0, length 22 cm
730001	**Same,** size 1
730002	**Same,** size 2
730003	**Same,** size 3
730004	**Same,** size 4
730005	**Same,** size 5

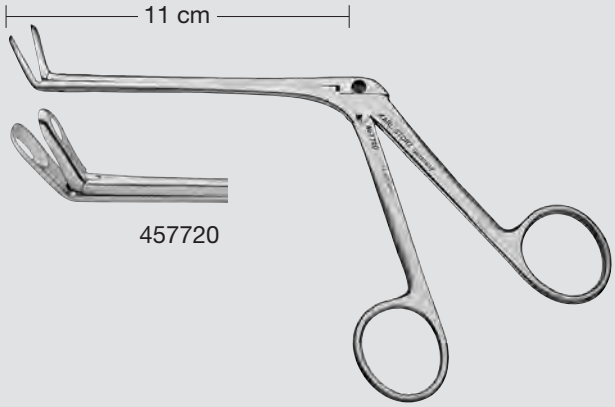
730400	BECKMANN **Adenoid Curette,** with cage, straight, size 0, length 22 cm
730401	**Same,** size 1
730402	**Same,** size 2
730403	**Same,** size 3
730404	**Same,** size 4
730405	**Same,** size 5

731000	NEGUS **Adenoid Curette,** curved, size 0, length 21 cm
731001	**Same,** size 1
731002	**Same,** size 2
731003	**Same,** size 3
731004	**Same,** size 4
731005	**Same,** size 5

8-876



732500



457720

457720	BLAKESLEY-WIGAND **Nasal Forceps,** 60° upturned, long jaws 6 x 20 mm, rounded tips, for grasping polyps and adenoid rests, working length 11 cm
732500	JURACZ **Adenoid Forceps,** sharp, length 19 cm

8-87$_6$



740000 740014 740200 740500 740701 740700 740800

740000	BRÜNINGS **Tongue Depressor,** length 19 cm
740014	**Tongue Depressor,** width 20 x 25 mm, length 17.5 cm
740200	FRENZEL **Tongue Depressor,** length 16.5 cm
740500	MORITZ-SCHMIDT **Tongue Depressor,** length 19 cm
740701	**Tongue Depressor,** with solid handle, width 88 x 25 mm, length 15 cm
740700	HARTMANN **Tongue Depressor,** length 17 cm
740800	HARTMANN **Tongue Depressor,** for children, length 16 cm

3-99$_3$

Mouth – Tonsillectomy



742909 – 742913



743500

742909	JENNINGS **Mouth Gag,** small, for children, length 9 cm
742911	**Same,** medium, standard size, length 11 cm
742913	**Same,** large, length 13 cm
743500	DINGMANN **Mouth Gag,** complete including: **Tongue Depressor,** size 1, 55 x 25 mm **Tongue Depressor,** size 2, 60 x 27 mm **Tongue Depressor,** size 3, 70 x 30 mm 2x **Cheek Retractor,** adjustable 2x **Screw Connection,** complete 2x **Tooth Hook,** movable

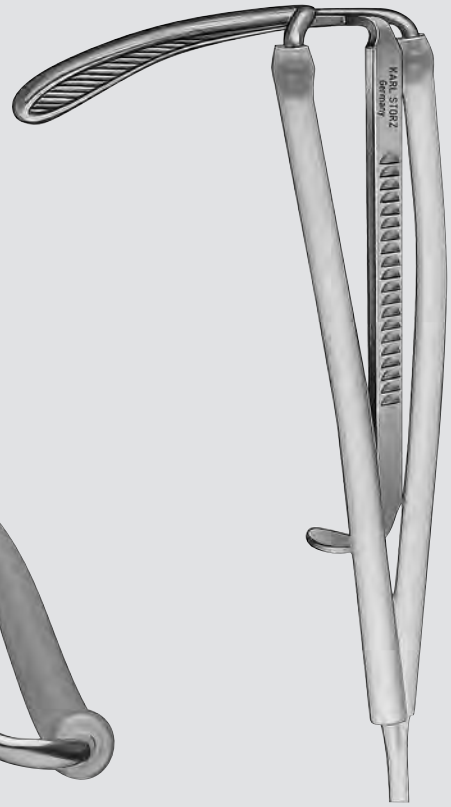
3-99$_3$

Components/Spare Parts see chapter 16

DAVIS-MEYER **Tongue Blades**



743910 –
743940

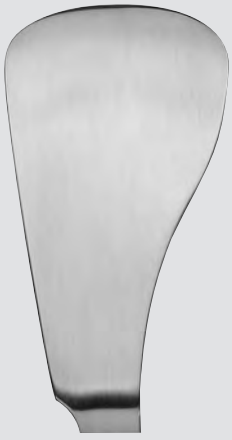


743910 –
743940

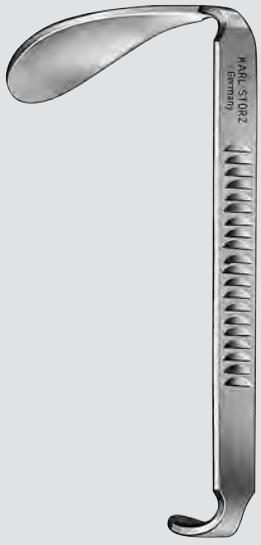
743910	DAVIS-MEYER **Tongue Blade,** with anesthetic tube, size 1, 28 x 68 mm
743915	**Same,** size 1½, 29 x 73 mm
743920	**Same,** size 2, 30 x 76 mm
743925	**Same,** size 2½, 31 x 83 mm
743930	**Same,** size 3, 32 x 88 mm
743935	**Same,** size 3½, 33 x 98 mm
743940	**Same,** size 4, 34 x 108 mm

8-11

Components/Spare Parts see chapter 16



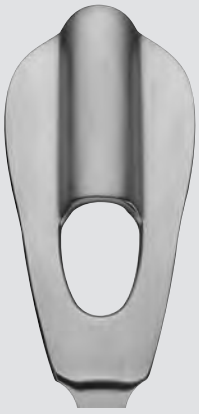
744101 –
744104



744101 –
744104

744101	HERBERHOLD **Tongue Blade,** with asymetric recess for guiding the endotracheal tube along the alignment, size 1, 29 x 65 mm
744102	**Same,** size 2, 33 x 73 mm
744103	**Same,** size 3, 38 x 83 mm
744104	**Same,** size 4, 41 x 98 mm

8-11



744200 –
744205



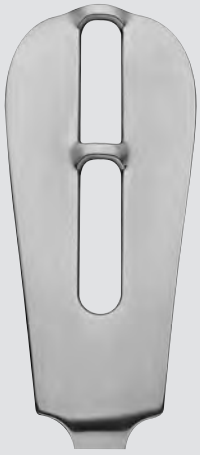
744251 –
744253



744200 –
744205

NEW	744200	RUSSEL-DAVIS **Tongue Blade,** with central groove, size 0, 25 x 60 mm
	744201	**Same,** size 1, 30 x 70 mm
	744202	**Same,** size 2, 34 x 80 mm
	744203	**Same,** size 3, 39 x 84 mm
	744204	**Same,** size 4, 42 x 98 mm
	744205	**Same,** size 5, 47 x 105 mm
	744201 A	RUSSEL-DAVIS **Tongue Blade,** with central groove, narrow blade, size 1, 19 x 62 mm
	744202 A	**Same,** size 2, 22 x 67 mm
	744203 A	**Same,** size 3, 25 x 75 mm
	744204 A	**Same,** size 4, 27 x 83 mm
	744205 A	**Same,** size 5, 34 x 90 mm
NEW	744251	**Tongue Blade,** with central groove and lateral opening, size 1, 30 x 70 mm
NEW	744252	**Same,** size 2, 34 x 80 mm
NEW	744253	**Same,** size 3, 39 x 84 mm

8-11



744301 –
744305



744301 –
744305



744302 H –
744303 H



744302 H –
744303 H

744301	**Tongue Blade,** WÜRZBURG model, slotted, size 1, 28 x 69 mm
744302	**Same,** size 2, 32 x 77 mm
744303	**Same,** size 3, 34 x 85 mm
744304	**Same,** size 4, 37 x 98 mm
744305	**Same,** size 5, 38 x 105 mm

744302 H	HORNBERGER **Tongue Blade,** slotted, blade size 32 x 70 mm, for use with LMA Classic Larynx Masks, size 2 and 2½
744303 H	**Same,** blade size 34 x 78 mm, for use with LMA Classic Larynx Masks, size 3 and 3½

3-87$_3$



744402 –
744405



744402 –
744405

744402	RING **Tongue Blade,** size 2, 25 x 61 mm
744403	**Same,** size 3, 28 x 74 mm
744404	**Same,** size 4, 34 x 88 mm
744405	**Same,** size 5, 37 x 100 mm

8-99

Mouth – Tonsillectomy



744500



744503



744510

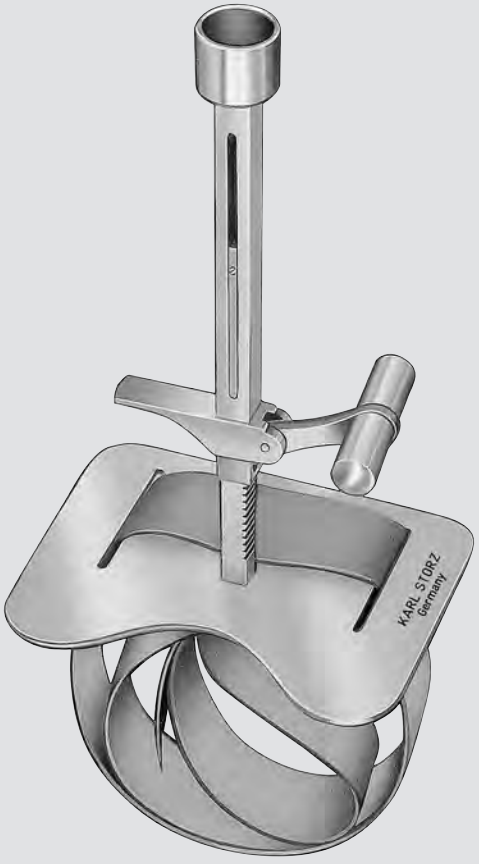
744500	DAVIS-MEYER **Mouth Gag,** standard model, with sliding Tooth Hook 744501, for use with Tongue Blades 743910 – 744405
744503	**Palate Support Blade,** for toothless patients, for use with Mouth Gags 744500, 744510
744510	DAVIS-MEYER **Mouth Gag,** special model, reverse opening, with 2 movable Tooth Hooks 744501, for use with Tongue Blades 743910 – 744505

11-03

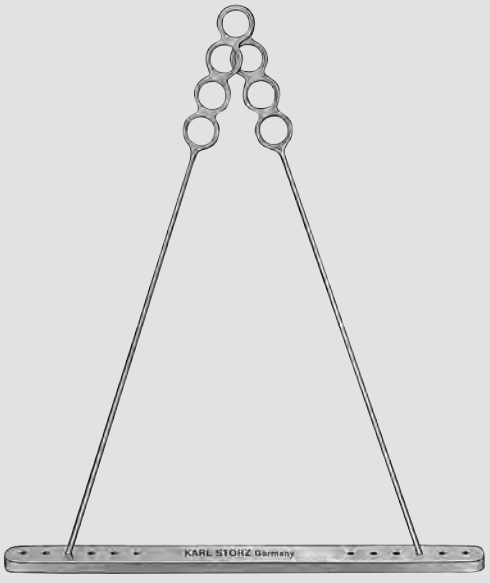
Components/Spare Parts see chapter 16



744600



744800



745200

744600 McIVOR **Mouth Gag,** with removable bow for replacement of rubber tube, for use with Tongue Blades 743910 – 744405

744610 McIVOR **Mouth Gag,** with small bow for children, with removable bow for replacement of rubber tube, width 80 mm, height 45 mm, length 15 cm, for use with Tongue Blades 743910 – 744405

744800 NEGUS **Chest Support,** with webbing strap, for adults, rod 14 cm, for use with Tongue Blades 743910 – 744405 and Mouth Gags 744500 – 744600

745200 DRAFFIN **Suspension Apparatus Bipod,** for use with Tongue Blades 743910 – 744405 and Mouth Gags 743500, 744500 – 744600

including:

2x **Rod,** with 4 rings

Base Plate

8-87$_4$

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



742900



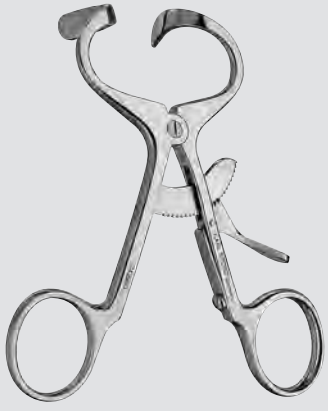
742910



742920



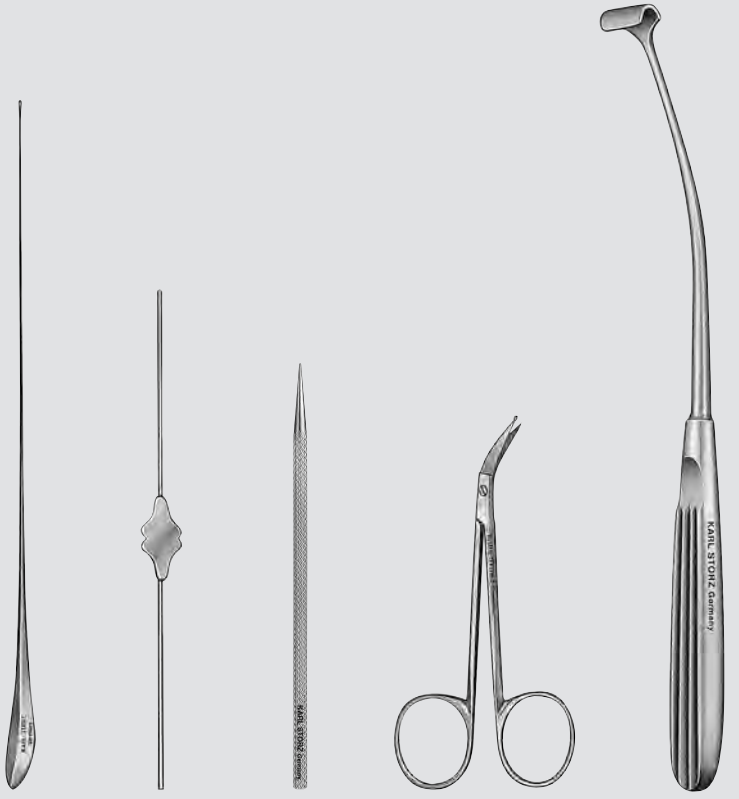
742950



742960

742900	**Mouth Gag,** large fenestrated blades, length 17 cm
742910	HARTL **Mouth Gag,** right blade with U-shaped curve, length 13 cm
742920	HARTL **Mouth Gag,** left blade with U-shaped curve, length 13 cm
742950	DOYEN-MOLT **Mouth Gag,** for adults, length 14 cm
742960	DOYEN-MOLT **Mouth Gag,** for children, length 10.5 cm

8-11



745700 | 745830 – 745804 | 745900 | 746300 746300 DST | 746700

745700	SEIFFERT **Probe, for salivary duct,** silver, extra delicate, diameter 0.5 mm, length 18 cm
745830	BOWMAN **Probe, for salivary duct,** size 0000 – 000, diameter 0.5 and 0.6 mm, length 13 cm
745800	**Same,** size 00 – 0, diameter 0.7 and 0.8 mm
745802	**Same,** size 1 – 2, diameter 0.9 and 1.1 mm
745804	**Same,** size 3 – 4, diameter 1.3 and 1.4 mm
745900	WILDER **Dilator,** for salivary duct, length 11 cm
746300	**Scissors for Salivary Duct,** delicate, with ball end, length 10 cm
746300 DST	**Same,** with titanium nitride coating, color code: copper
746700	NAGER **Pillar Retractor,** length 21 cm

3-99$_2$



748000



748100



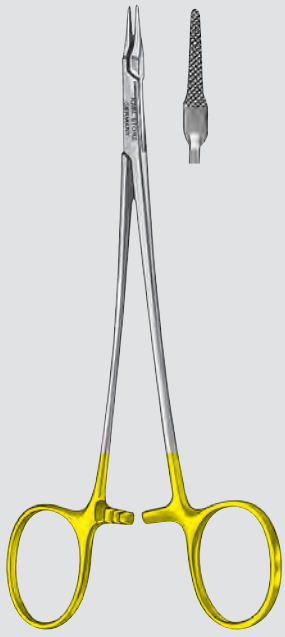
208210



208211



208215



516117



798618

748000	**Surgical Handle,** Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
748100	**Same,** Fig. 3L, length 21 cm
208210	**Blade,** Fig. 10, sterile, package of 100
208211	**Same,** Fig. 11
208215	**Same,** Fig. 15
516117	RYDER **Needle Holder**, tungsten carbide inserts, extra delicate, length 17 cm
798618	HEGAR **Needle Holder,** tungsten carbide inserts, slender, length 18 cm

3-994

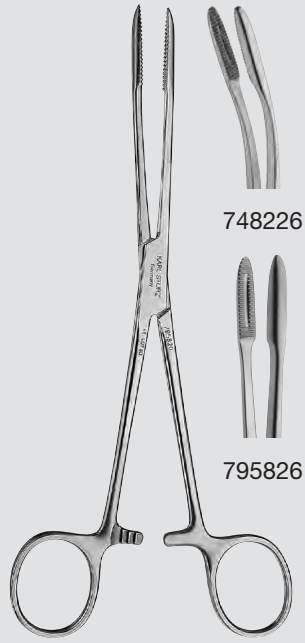


748200



748221

748220



748226

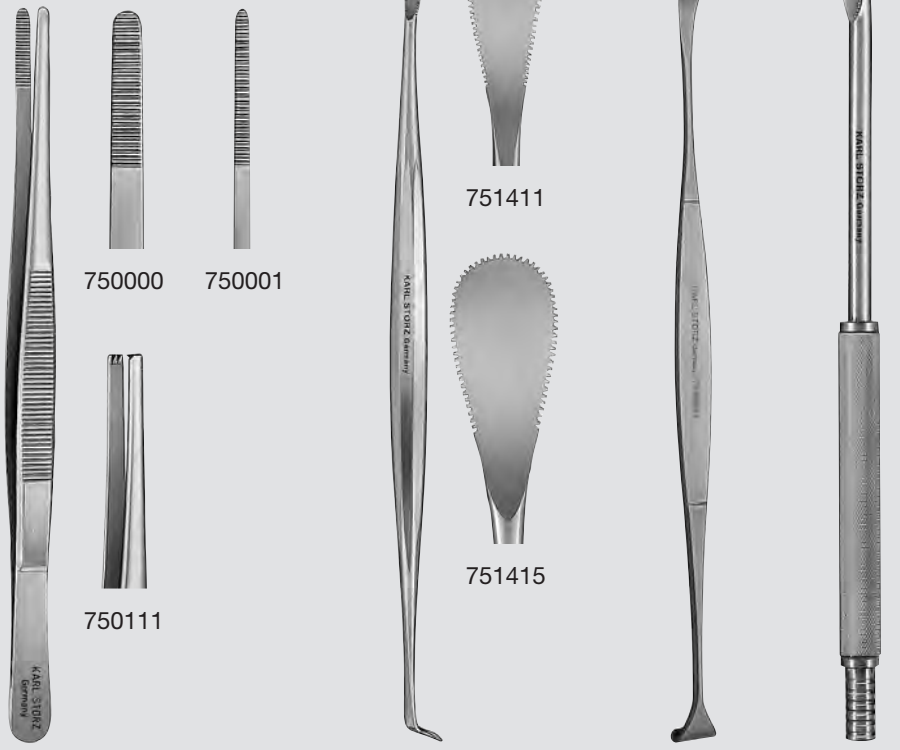
795826

795820

748200	**Dressing and Sponge Holding Forceps,** slim, curved, with ratchet, length 19 cm
748220	DUPLAY **Dressing and Sponge Holding Forceps,** curved, with ratchet, length 21 cm
748221	**Same,** straight
748226	MAIER **Dressing and Sponge Holding Forceps,** curved, with ratchet, length 26 cm
795820	GROSS **Dressing and Sponge Holding Forceps,** straight, with ratchet, length 20 cm
795826	MAIER **Dressing and Sponge Holding Forceps,** straight, with ratchet, length 26.5 cm

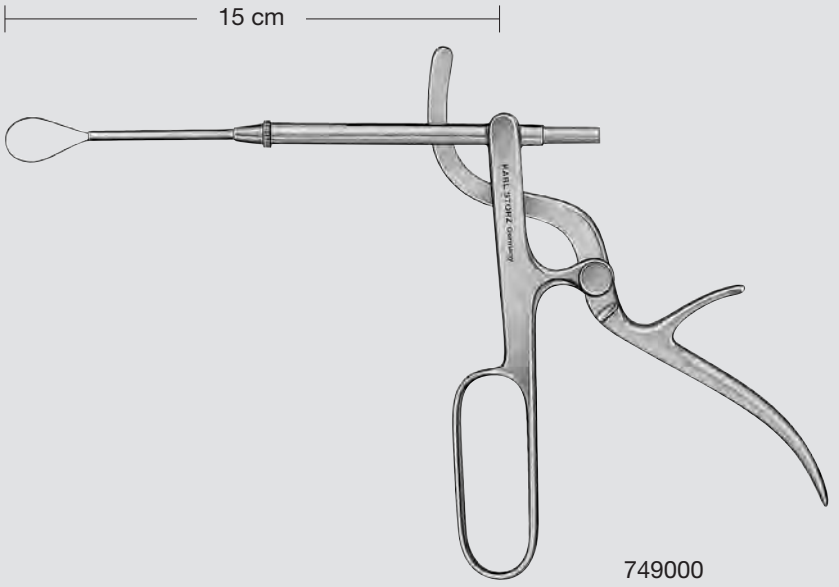
8-11

Mouth – Tonsillectomy

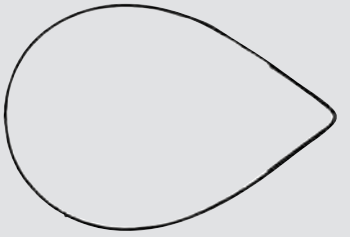


	750000	**Forceps,** serrated, width 4 mm, length 20 cm
	750001	**Same,** width 1.8 mm
	750111	**Tissue Forceps,** 1 x 2 teeth, width 2 mm, length 20 cm
	750112	**Same,** width 3.5 mm
	750123	**Same,** 2 x 3 teeth, width 4.5 mm
	751411	HENKE **Elevator,** width 11.5 mm, length 23.5 cm (standard size)
	751415	HENKE **Elevator,** width 15 mm, length 24 cm
	751800	HURD **Dissector and Pillar Retractor,** width 9 mm, length 22.5 cm
	752200	STIERLEN **Suction Dissector,** width 13.5 mm, length 24 cm

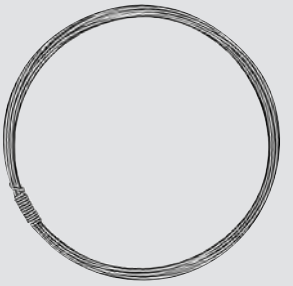
11-03₂



749000



754200



754300



754350

749000	TYDING **Tonsil Snare,** working length 15 cm, for use with Wire Snare Loops 754200 or Snare Wire 754300
754200	**Wire Snare Loop,** stainless steel, package of 100
754300	**Snare Wire,** diameter 0.4 mm, 10 m roll, for use with 749000
754350	**Wire Cutting Scissors,** serrated, length 12.5 cm

11-03$_2$

Components/Spare Parts see chapter 16



750600



750620

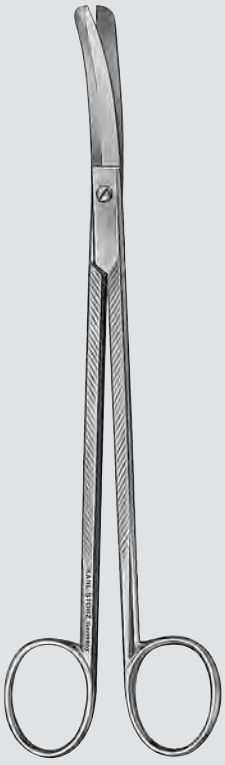


750800



751001

750600	TYDING **Forceps,** working length 11.5 cm
750620	DENIS-BROWNE **Forceps,** length 20 cm
750800	COLVER **Forceps,** length 19 cm
751001	BLOHMKE **Forceps,** length 20 cm

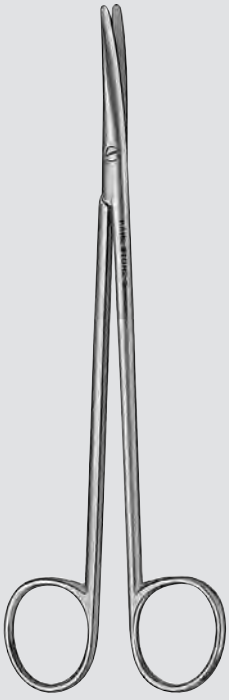


752500

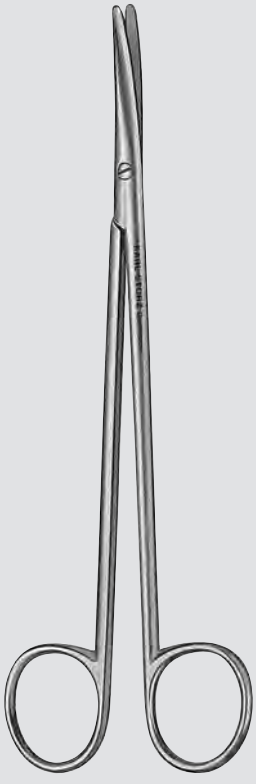


752800

752700



752918



752920

752500	GOOD **Scissors,** length 19.5 cm
752700	BOETTCHER **Scissors,** length 18.5 cm
752800	**Same,** pointed
752918	METZENBAUM **Scissors,** curved, length 18 cm
752920	**Same,** length 20 cm
752923	**Same,** length 23 cm
752928	**Same,** length 28 cm

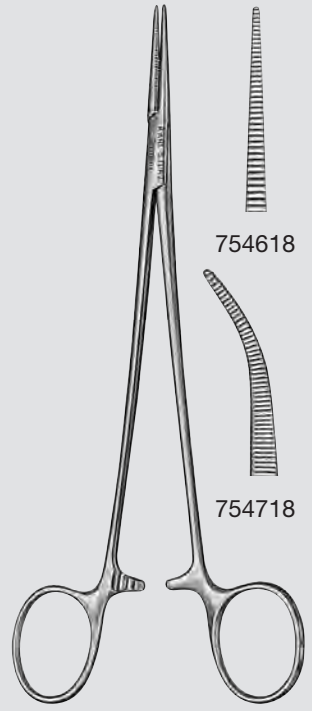
11-03$_2$



754518



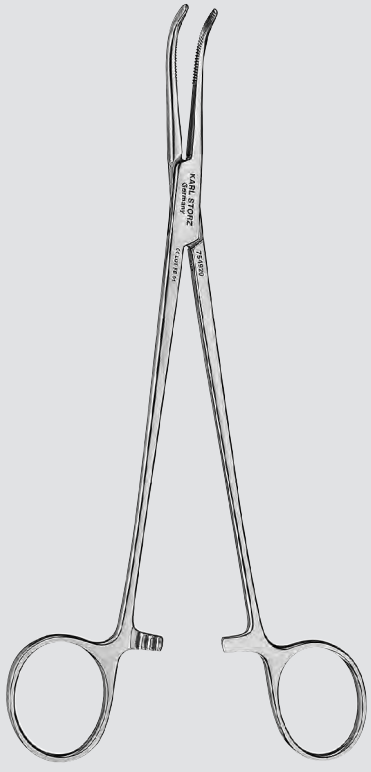
754520



754618



754719



754920

754518	MIKULICZ **Forceps,** slender, 1 x 2 teeth, length 18 cm
754520	**Same,** robust, length 20 cm
754618	**“Mosquito” Forceps,** extra slender, serrated, straight, length 18 cm
754718	**Same,** curved
754719	SCHNIDT **Forceps,** slightly curved, serrated, length 19 cm
754920	OVERHOLT-GEISSENDOERFER **Forceps,** curved, serrated, size 0, length 21 cm



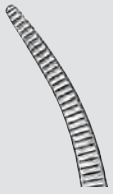
754200



755120



755401



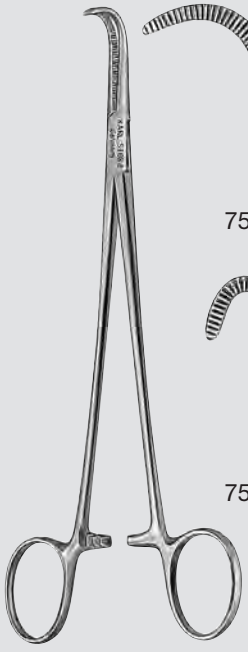
755220



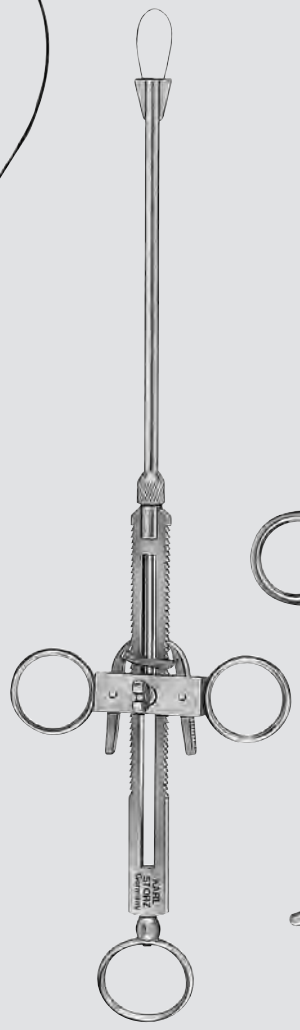
755402



755120



755401



753500

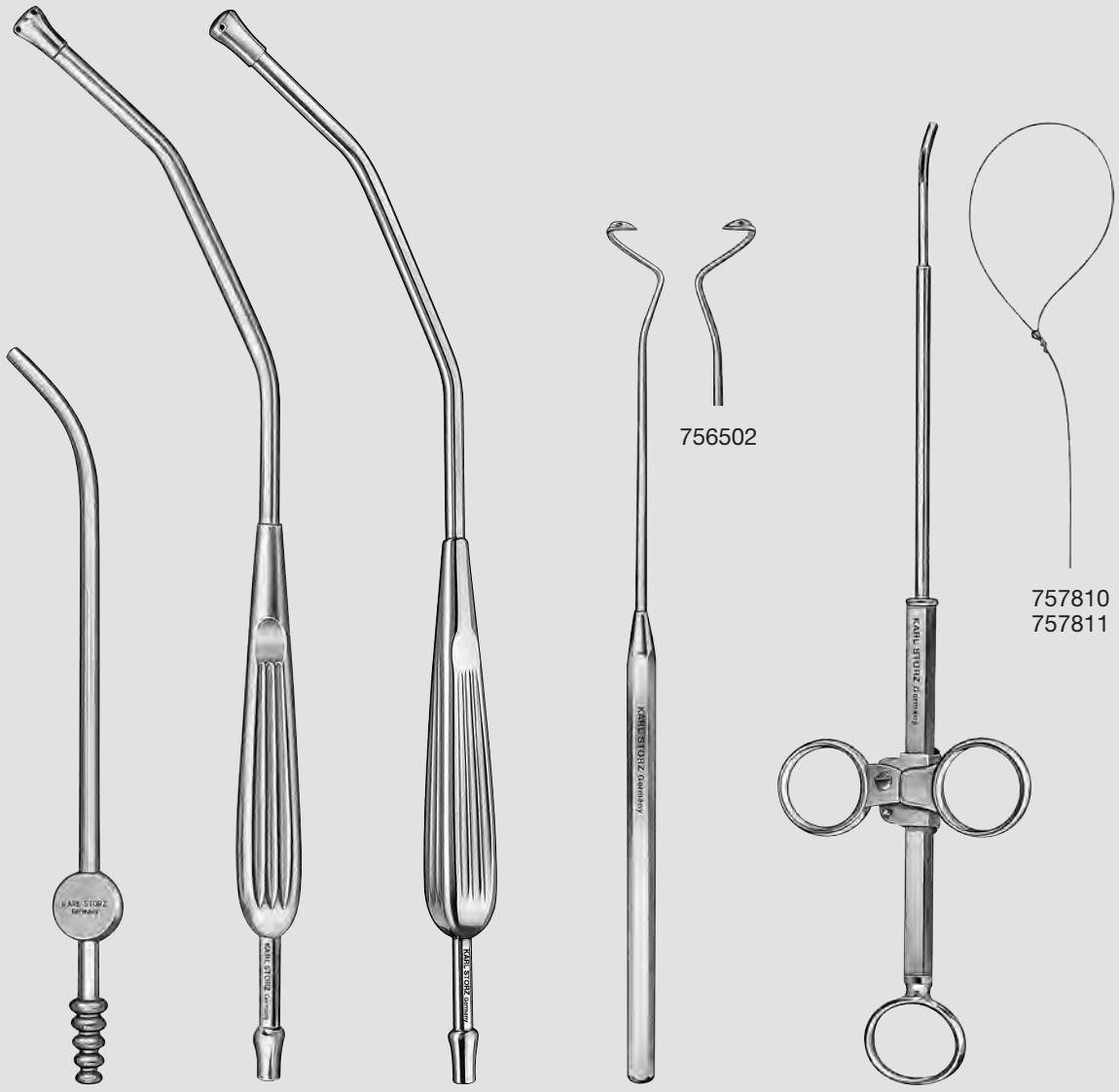


753700

755120	HALLE-BIRKETT **Forceps,** slender, straight, length 20 cm
755220	**Same,** curved
755401	NEGUS **Forceps,** large curve, length 20 cm
755402	**Same,** small curve
753500	BRÜNINGS **Tonsil Snare,** length 29 cm
753700	EVES **Tonsil Snare,** length 27 cm
754200	**Wire Snare Loop,** stainless steel, package of 100

3-99$_2$

Components/Spare Parts see chapter 16



203945 755500 755505 756501 757700

203945	**Suction Tube,** curved, conical, outer diameter 4.5 mm, length 20 cm
755500	YANKAUER **Suction Tube,** standard model, with large holes, length 29 cm
755505	**Same,** with small holes
756501	HURD **Tonsil Suture Needle,** right, length 22.5 cm
756502	**Same,** left
757700	**Roeder Loop Applicator,** model E, length 27 cm
757810	**Loops,** for Roeder Loop Applicator 757700, polyglycolic acid, absorbable, sterile, in package of 12, size 0
757811	**Same,** strength 1

Components/Spare Parts see chapter 16

3-99$_3$

Laryngeal mirrors illustrated in actual size



Size 00
Diameter 8 mm



Size 0
Diameter 10 mm



Size 1
Diameter 12 mm



Size 2
Diameter 14 mm



Size 3
Diameter 16 mm



Size 4
Diameter 18 mm



Size 5
Diameter 20 mm



Size 6
Diameter 22 mm



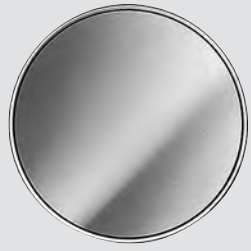
Size 7
Diameter 24 mm



Size 8
Diameter 26 mm



Size 9
Diameter 28 mm



Size 10
Diameter 30 mm

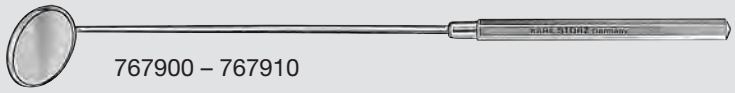
1-91

Laryngeal Instruments

Laryngeal Mirrors with RHODIUM Front Surface

Special Features:

- **Autoclavable**
- **Resistant**
- **Durable**



767900 – 767910

Laryngeal Mirrors with **RHODIUM** Front Surface, **autoclavable,** with unscrewable hexagonal handle, sizes 0 – 10

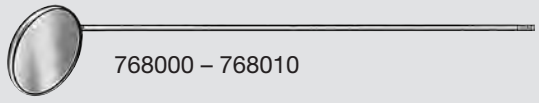
767911 **Laryngeal Mirror,** with **RHODIUM** coating, **autoclavable,** with unscrewable hexagonal handle, set of 11 mirrors, nos. 767900 – 767910, sizes 0 – 10

767900 size 0
767901 size 1
767902 size 2
767903 size 3
767904 size 4
767905 size 5
767906 size 6
767907 size 7
767908 size 8
767909 size 9
767910 size 10



769950

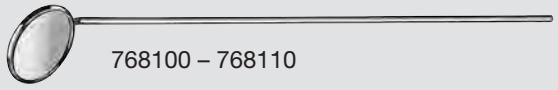
769950 **Handle,** only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020



768000 – 768010

Laryngeal Mirror with **RHODIUM** Front Surface, **autoclavable,** mirror only, stem with thread, for use with hexagonal Handles 767900 – 767910 and 769950

768000 size 0
768001 size 1
768002 size 2
768003 size 3
768004 size 4
768005 size 5
768006 size 6
768007 size 7
768008 size 8
768009 size 9
768010 size 10



768100 – 768110

Laryngeal Mirror with **RHODIUM** Front Surface, **autoclavable,** without handle, stem without thread, size 0, for use with Handles 770500/770600

768100 size 0
768101 size 1
768102 size 2
768103 size 3
768104 size 4
768105 size 5
768106 size 6
768107 size 7
768108 size 8
768109 size 9
768110 size 10



770500

770500 **Handle,** with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120

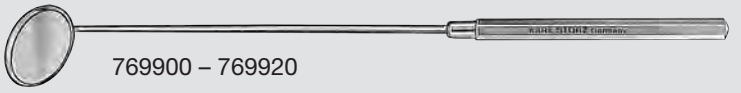


770600

770600 **Same,** with central screw connection, length 11.5 cm

For the actual size of the laryngeal mirror see page 358

3-99



769900 – 769920

Laryngeal Mirror, with unscrewable hexagonal handle, size 00 – 10

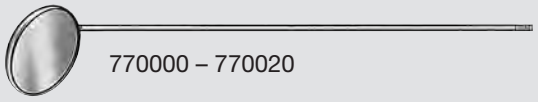
769921	**Laryngeal Mirror,** with unscrewable hexagonal handle, set of 12 mirrors, nos. 769900 – 769920, sizes 00 – 10	

769920	size 00
769900	size 0
769901	size 1
769902	size 2
769903	size 3
769904	size 4
769905	size 5
769906	size 6
769907	size7
769908	size 8
769909	size 9
769910	size 10



769950

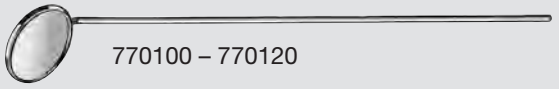
769950	**Handle,** only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020	



770000 – 770020

Laryngeal Mirror, mirror only, stem with thread, size 00 – 10, can be screwed on Handles 769900 – 769920 and 769950

770020	size 00
770000	size 0
770001	size 1
770002	size 2
770003	size 3
770004	size 4
770005	size 5
770006	size 6
770007	size 7
770008	size 8
770009	size 9
770010	size 10



770100 – 770120

Laryngeal Mirror, without handle, stem without thread, size 00 – 10

770120	size 00
770100	size 0
770101	size 1
770102	size 2
770103	size 3
770104	size 4
770105	size 5
770106	size 6
770107	size 7
770108	size 8
770109	size 9
770110	size 10



770500

770500	**Handle,** with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120

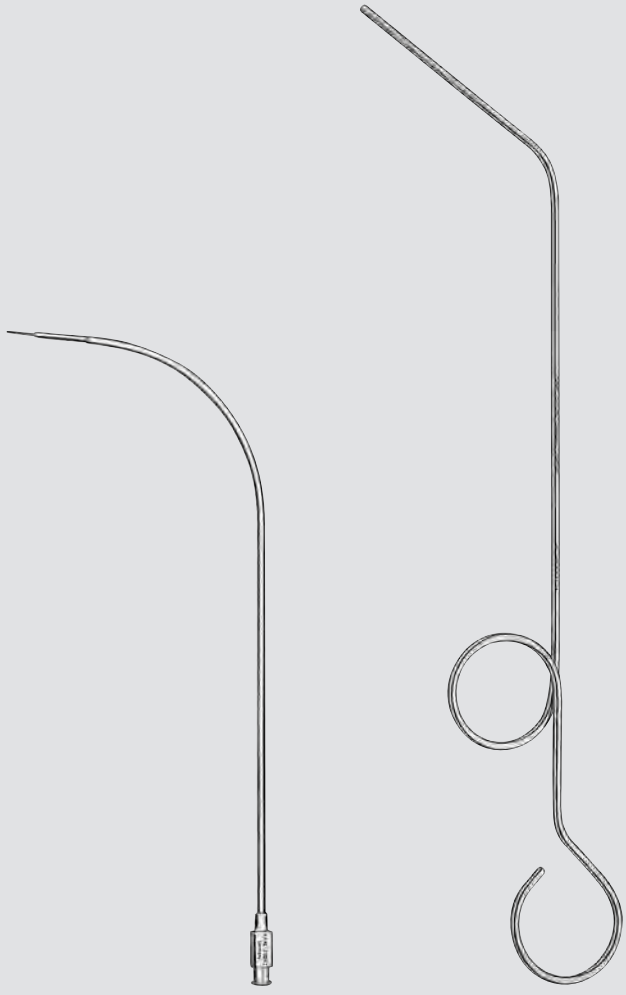


770600

770600	**Same,** with central screw connection, length 11.5 cm

11-03

For the actual size of the laryngeal mirror see page 358

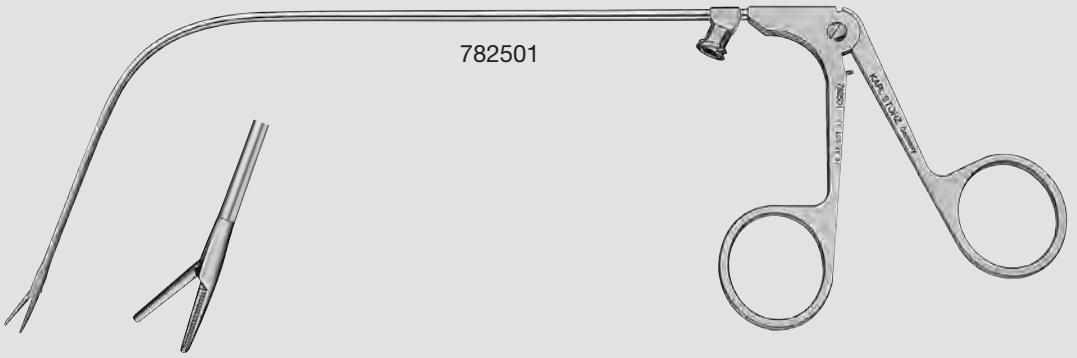


27200 T 770800

27200 T	JOUSSEN **Larynx Cannula,** curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3
770800	PELTESON **Cotton Applicator,** working length 27 cm

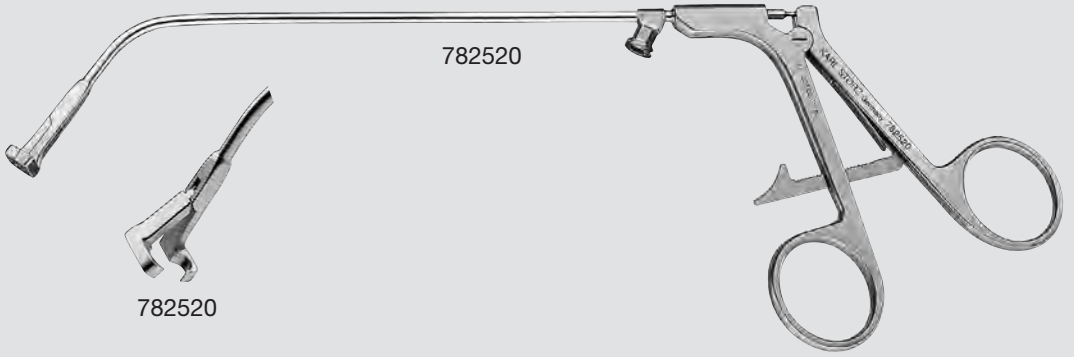
11-03

Working length 17 cm



782501

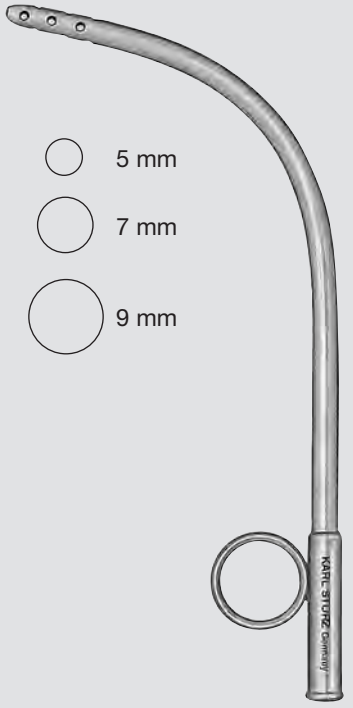
782501 **Indirect Laryngeal Forceps,** for foreign bodies, serrated, straight, open forwards, with cleaning connector, working length 17 cm



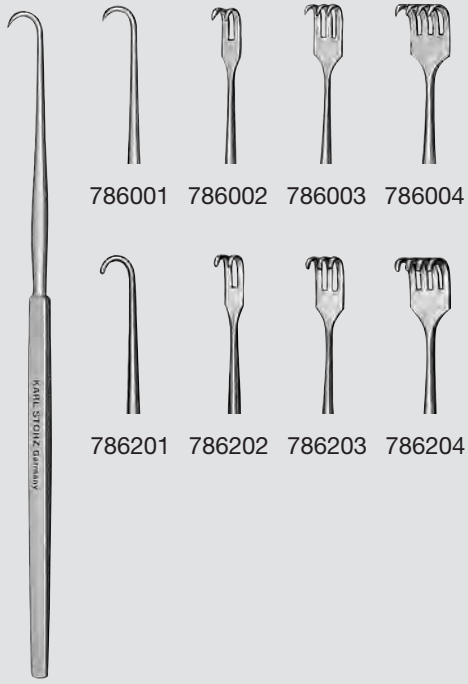
782520

782520 **Indirect Laryngeal Forceps,** to apply needle electrodes, for electromyographic examination of the vocal cords, with ratchet, with cleaning connector, working length 17 cm

8-11



785005 – 785009





786500

785005	BRÜNINGS **Life-Saving Tube,** outer diameter 5 mm, length 20 cm
785007	**Same,** outer diameter 7 mm
785009	**Same,** outer diameter 9 mm
786001	**Retractor,** sharp, 1 prong, length 17 cm
786002	**Same,** 2 prongs
786003	**Same,** 3 prongs
786004	**Same,** 4 prongs
786201	**Retractor,** blunt, 1 prong, length 17 cm
786202	**Same,** 2 prongs
786203	**Same,** 3 prongs
786204	**Same,** 4 prongs
786500	SCHÖNBORN **Thymus Retractor,** width 5 mm, length 20.5 cm

3-99



403575



404075
404090



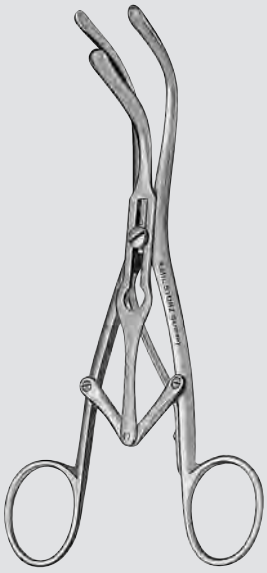
786600

403575	KILLIAN-STRUYCKEN **Nasal Speculum**, standard model, blade length 75 mm, length 13.5 cm
404075	**Nasal Speculum,** with fiber optic light carrier, blade length 75 mm, length 13.5 cm
404090	**Same,** blade length 90 mm
786600	WEERDA **Tracheal Speculum,** length 19 cm

11-03

Please note:
LED Battery Light Sources for use with 404075 and 404090 see page 261

Components/Spare Parts see chapter 16



786800



786900



787000

786800	LABORDE **Tracheal Dilator,** length 15 cm, three-bladed
786900	**Same,** two-bladed
787000	KOCHER **Probe,** length 16.5 cm

11-03



789500



789610

789500 KILLIAN **Laryngectomy Scissors,** double action, length 21.5 cm

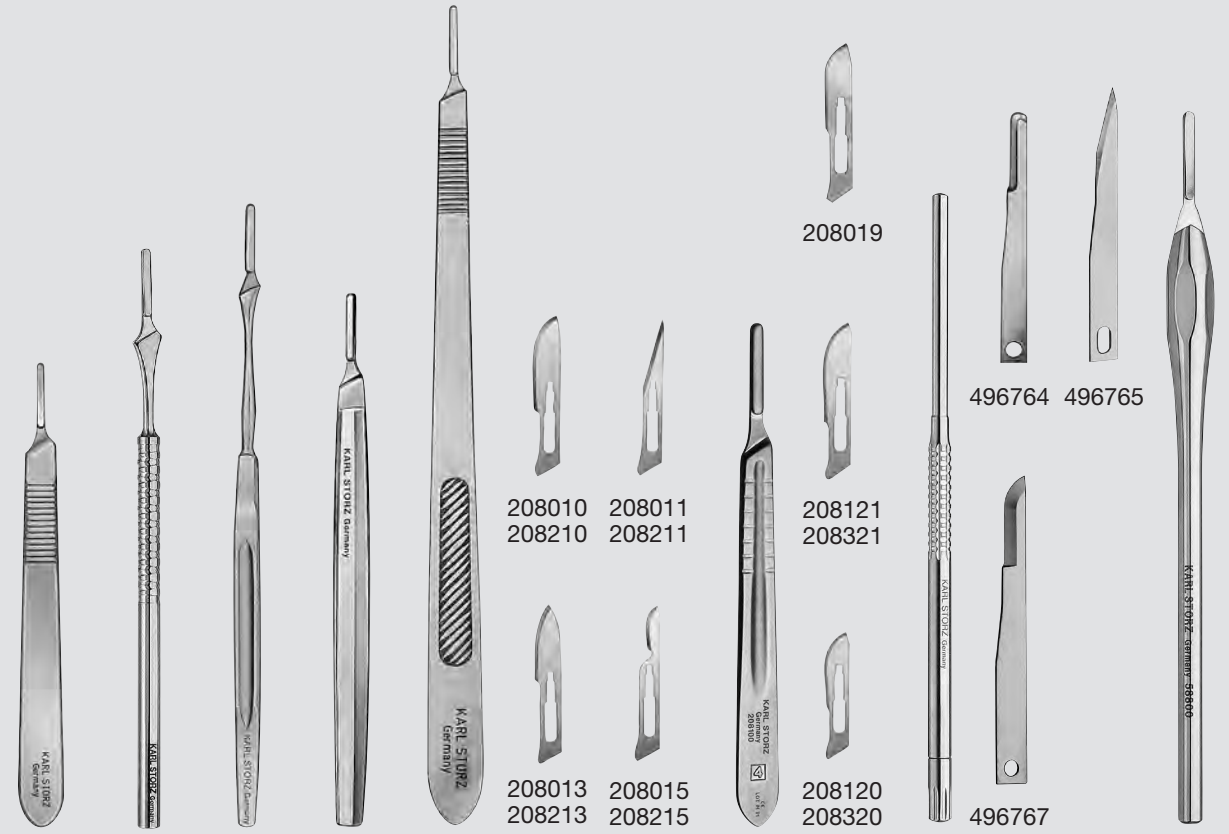
789610 **Forceps,** for parotidectomy, KIEL model, angled, length 17 cm

11-03



HOSPITAL SUPPLIES
SCALPELS, SCISSORS, FORCEPS
NEEDLE HOLDERS, RETRACTORS
MISCELLANEOUS

Scalpels and Handles



208000	**Surgical Handle,** Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15	
208001	**Round Surgical Handle,** Fig. 3, length 15 cm, for Blades 208010 – 15, 208210 – 15	
211804	FISCH **Dual Purpose Scalpel Handle,** elevator on one side, scalpel handle no. 7 on the other side, length 16 cm	
496400	MASING **Surgical Handle,** length 14 cm, for Blades 208010 – 15, 208210 – 15	
748000	**Surgical Handle,** Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15	
748100	**Surgical Handle,** Fig. 3L, length 21 cm, for Blades 208010 – 15, 208210 – 15	NEW
208010	**Blade,** Fig. 10, non-sterile, package of 100	
208011	**Same,** Fig. 11	
208013	**Same,** Fig. 13	
208015	**Same,** Fig. 15	
208210	**Blade,** Fig. 10, sterile, package of 100	
208211	**Same,** Fig. 11	
208213	**Same,** Fig. 13	
208215	**Same,** Fig. 15	
208100	**Surgical Handle,** Fig. 4, length 13.5 cm, for Blades 208019, 208120 – 21, 208320 – 21	
208120	**Blade,** for Handle 208100, Fig. 20, non-sterile, package of 100	
208121	**Same,** Fig. 21	
208019	**Blade,** Fig. 19, sterile, package of 100	
208320	**Blade,** for Handle 208100, Fig. 20, sterile, package of 100	
208321	**Same,** Fig. 21	
496550	**Surgical Handle,** for miniature blades, round, length 16.5 cm, for Blades 496764 – 65	
496764	**Miniature Blade,** Fig. 64, round, sterile, package of 25	
496765	**Same,** Fig. 65, pointed	
496767	**Same,** Fig. 67, concentrated	
58800	**Surgical Handle,** straight, length 14 cm, for Blades 208010 – 15, 208210 – 15	NEW

10-95$_5$

Scissors



790501
790801



790502
790802



790503
790803

790501	**Scissors,** straight, sharp/sharp, length 13 cm
790502	**Same,** sharp/blunt
790503	**Same,** blunt/blunt
790801	**Scissors,** straight, sharp/sharp, length 14.5 cm
790802	**Same,** sharp/blunt
790803	**Same,** blunt/blunt



791001
791201



791002
791202



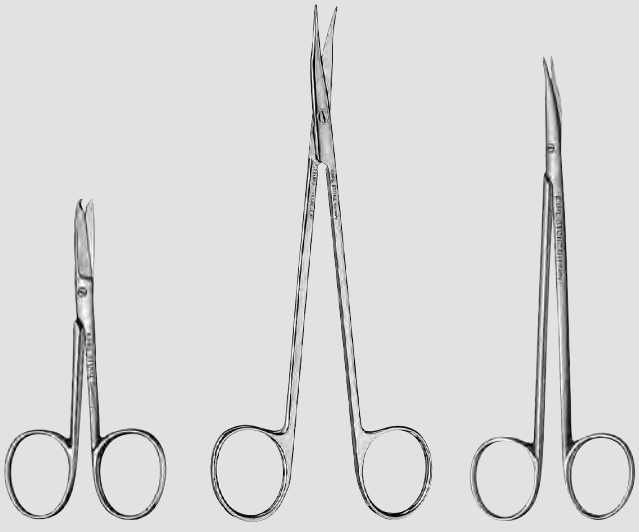
791003
791203

791001	**Scissors,** curved, sharp/sharp, length 13 cm
791002	**Same,** sharp/blunt
791003	**Same,** blunt/blunt
791201	**Scissors,** curved, sharp/sharp, length 14.5 cm
791202	**Same,** sharp/blunt
791203	**Same,** blunt/blunt

11-03



790902	**Scissors,** with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
791302	**Same,** curved
791500	**Stitch Scissors,** straight, sharp/sharp, length 12.5 cm
791600	**Same,** curved
791618	**Ligature Scissors,** with tungsten carbide inserts, curved, lower blade serrated, length 18 cm, color code: one black handle ring, one gold-plated handle ring



791709	SPENCER **Stitch Scissors,** length 9 cm
791803	JAMESON **Scissors,** curved, pointed, delicate tips, length 15.5 cm
791813	REYNOLDS **Scissors,** curved, delicate tips, length 13 cm
791815	**Same,** length 15 cm
791818	**Same,** length 18 cm

11-03$_2$



791903
791905



792003
792005



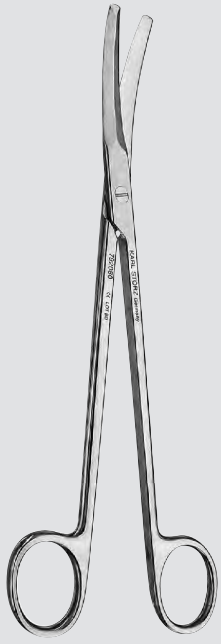
792013



792026



792071



792080

791903	MAYO **Scissors,** straight, length 15 cm
791905	**Same,** length 17 cm
792003	MAYO **Scissors,** curved, length 15 cm
792005	**Same,** length 17 cm
792013	**Same,** with tungsten carbide inserts
792026	MAYO-LEXER **Scissors,** with tungsten carbide inserts, curved, narrow blades, length 16 cm
792071	TOENNIS **Dissecting Scissors,** fine model, straight, blunt/blunt, length 18 cm
792080	POTTS-SMITH **Dissecting Scissors,** curved, blunt/blunt, length 19 cm

11-03$_2$

Scissors

Scissors with Ultimate Cutting Quality

“The Diamond Standard®” Scissors

Special Features:

- **Scissors with ultimate cutting quality**
- **Very fine-toothed upper blade prevents slipping of cut material**
- **Razor-sharp lower blade ensures easy and efficient cutting**
- **Color code: one gold-plated handle ring**
- **Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring**

Scissors with titanium nitride coating

Special Features:

- **Enhanced gliding properties**
- **Increased tool life**
- **More durable surface**
- **Color code: copper**
- **Some models are available with tungsten carbide inserts**



790802 DS



790902 DS



791002 DS
791202 DS



791003 DS
791003 DST

790802 DS	**Scissors,** straight, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring
790902 DS	**Scissors,** with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring
791002 DS	**Scissors,** curved, sharp/blunt, length 13 cm, color code: one gold-plated handle ring
791003 DS	**Same,** blunt/blunt
791003 DST	**Same,** with titanium-nitride coating, color code: copper
791202 DS	**Scissors,** curved, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring

11-03

Scissors

Scissors with Ultimate Cutting Quality



791302 DS
791302 DST



791815 DS

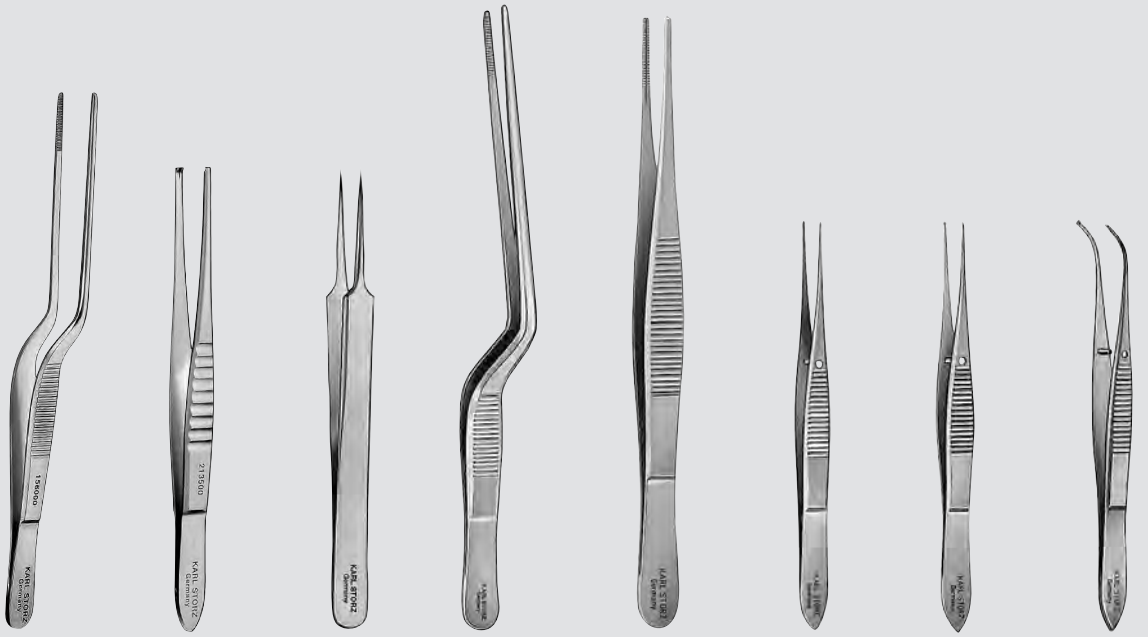


792013 DS
792013 DST

791302 DS	**Scissors,** with tungsten carbide inserts, curved, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring
791302 DST	**Same,** with titanium-nitride coating, color code: copper
791815 DS	REYNOLDS **Dissecting Scissors,** curved, small tips, length 15 cm, color code: one gold-plated handle ring
792013 DS	MAYO **Dissecting Scissors,** with tungsten carbide inserts, curved, length 15 cm, color code: one black handle ring, one gold-plated handle ring
792013 DST	**Same,** with titanium-nitride coating, length 14.5 cm, color code: copper

11-03

Dressing and Tissue Forceps

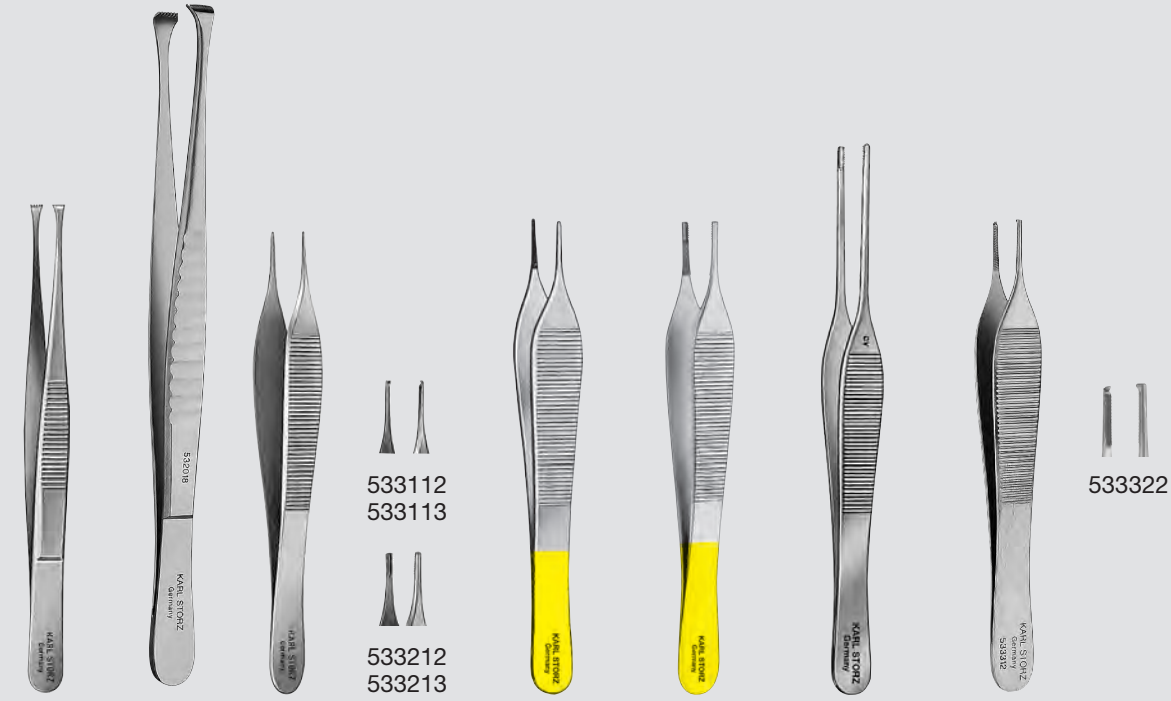


156000 213500 214500 426516 530416 530710 530910 530911

156000	LUCAE **Ear Forceps,** bayonet-shaped, length 14.5 cm
213500	**Tissue Forceps,** 1 x 2 teeth, length 11.5 cm
214500	**Jeweler Forceps,** fine, pointed, length 11 cm
426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
530416	"ATRAUMA" **Atraumatic Tissue Forceps,** length 16 cm
530710	**Dressing Forceps,** delicate, length 10 cm
530910	**Tissue Forceps,** delicate, straight, 1 x 2 teeth, length 10 cm
530911	**Same,** curved

11-03

Dressing and Tissue Forceps



532013 532018 533012 533013 533112 533113 533212 533213 533022 533214 533215 533312 533322

	532013	**Tissue Forceps,** straight, with 7 x 8 fine teeth, length 13 cm
NEW	532018	STÖVER **Tissue Forceps,** straight, with 7 x 8 fine teeth, length 18 cm
	533012	ADSON **Dressing Forceps,** serrated, length 12 cm
	533013	**Same,** micro-model
	533022	**Same,** tungsten carbide inserts
	533112	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm
	533113	**Same,** micro-model
	533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
	533213	**Same,** micro-model
	533214	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm
	533215	GLANZ **Forceps,** atraumatic, fine side grasping teeth, with extra long tips for better view and work in the depth, length 15 cm
	533312	ADSON **Tissue Forceps,** serrated, 1 x 2 teeth, length 12 cm
	533322	ADSON **Tissue Forceps,** serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm

11-03$_2$

Dressing Forceps



792302
792402
792602
750001

792301
792401
792601
750000



792303
792403
792603



792314
792318



792320

792301	**Dressing Forceps,** standard width, length 13 cm
792302	**Same,** medium
792303	**Same,** narrow
792314	**Dressing Forceps,** tungsten carbide inserts, width 1.8 mm, length 14.5 cm
792318	**Same,** length 18 cm
792320	**Atraumatic Tissue Forceps,** tungsten carbide inserts, serrated, length 20 cm
792401	**Dressing Forceps,** standard width, length 14.5 cm
792402	**Same,** medium
792403	**Same,** narrow
792601	**Dressing Forceps,** standard width, length 16 cm
792602	**Same,** medium
792603	**Same,** narrow
750000	**Forceps,** serrated, width 4 mm, length 20 cm
750001	**Same,** width 1.8 mm

11-03$_2$

Forceps



793215



793216



793220



793225



793918

793215	HELMS **Forceps,** pointed, atraumatic, for suturing and grasping of delicate tissue, with long, slender front part for greater depth of field, length 15 cm
793216	GILLIES **Tissue Forceps,** serrated, 1 x 2 teeth, length 15.5 cm
793220	WAUGH **Tissue Forceps,** serrated, 1 x 2 teeth, length 20 cm
793225	**Same,** length 25 cm
793918	WAUGH **Tissue Forceps,** 1 x 2 teeth, length 18 cm

3-07

Tissue Forceps



793302
793402
793602
750111

793301
793401
793601
750112



793303
793303 F
793403
793603

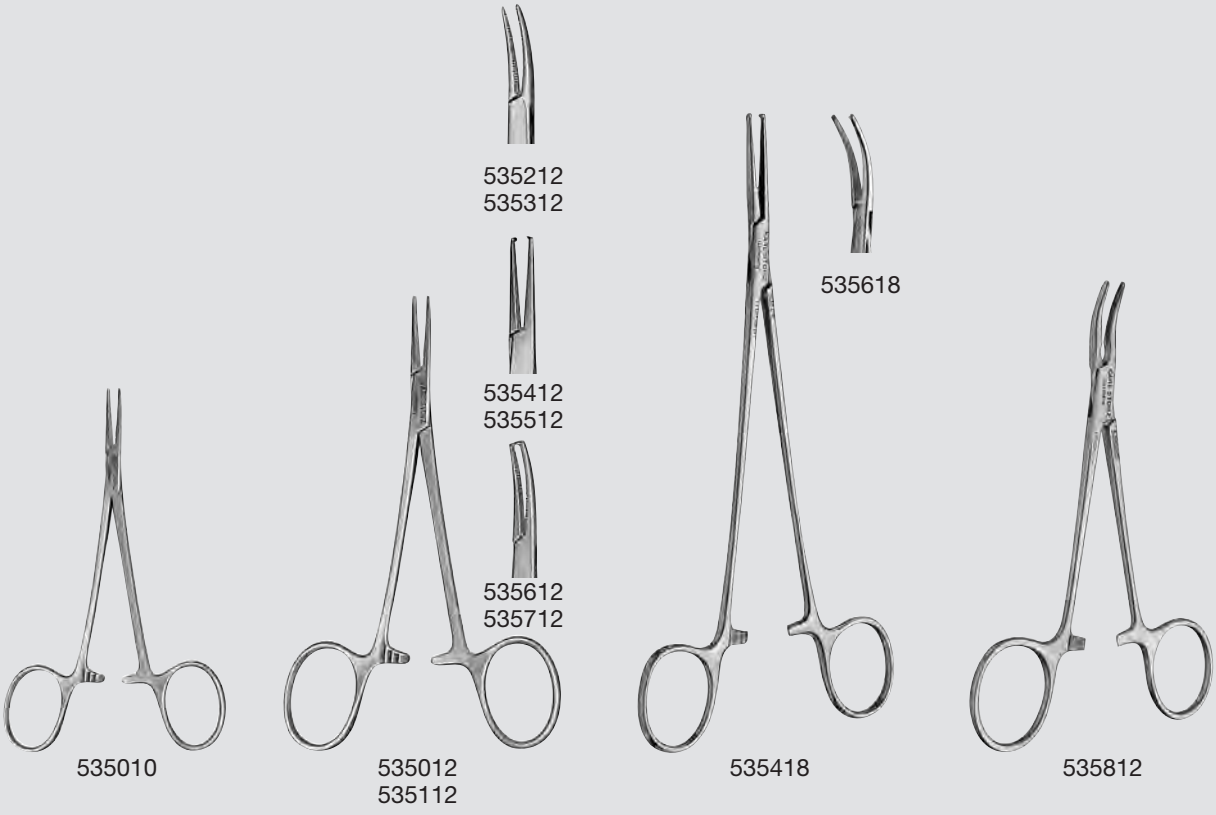


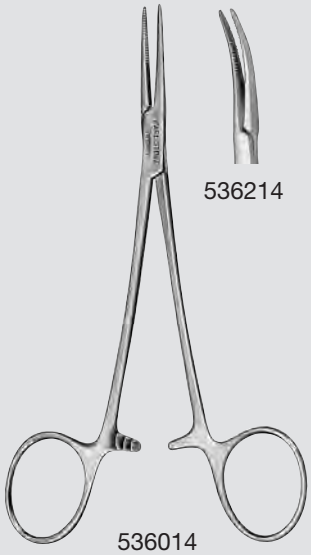
750123

793301	**Tissue Forceps,** 1 x 2 teeth, standard width, length 13 cm
793302	**Same,** medium
793303	**Same,** narrow
793303 F	**Same,** slender, soft spring
793401	**Tissue Forceps,** 1 x 2 teeth, standard width, length 14.5 cm
793402	**Same,** medium
793403	**Same,** narrow
793601	**Tissue Forceps,** 1 x 2 teeth, standard width, length 16 cm
793602	**Same,** medium
793603	**Same,** narrow
750111	**Tissue Forceps,** 1 x 2 teeth, width 2 mm, length 20 cm
750112	**Same,** width 3.5 mm
750123	**Tissue Forceps,** 2 x 3 teeth, width 4.5 mm, length 20 cm
750134	**Tissue Forceps,** 3 x 4 teeth, width 4.5 mm, length 20 cm

11-03$_2$

Artery Forceps





535010	**Baby “Mosquito” Forceps,** straight, extra slender, length 10 cm
535012	HALSTEAD **“Mosquito” Artery Forceps,** straight, length 12.5 cm
535112	**Same,** micro-model
535212	HALSTEAD **“Mosquito” Artery Forceps,** curved, length 12.5 cm
535312	**Same,** micro-model
535412	HALSTEAD **“Mosquito” Artery Forceps,** straight, 1 x 2 teeth, length 12.5 cm
535512	**Same,** micro-model
535612	**Same,** curved
535712	**Same,** micro-model, curved
535418	HALSTEAD **“Mosquito” Artery Forceps,** straight, 1 x 2 teeth, length 18 cm
535618	**Same,** curved
535812	DE BAKEY **“Mosquito” Artery Forceps,** atraumatic, curved, length 12 cm
536014	**Artery Forceps,** PROVIDENCE model, delicate, straight, length 14 cm
536214	**Same,** curved

1-91₄

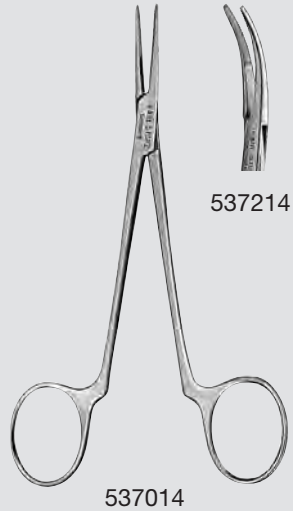
Artery Forceps


536514
536414


536814
536816


536909


536914
536916


537014

537214


537314


537222


539330


539327

536414	CRILE **Artery Forceps,** straight, length 14 cm
536514	**Same,** curved
536814	KELLY **Artery Forceps,** straight, length 14 cm
536816	**Same,** length 16 cm
536909	**Dissecting and Ligature Forceps,** straight, smooth jaws, length 9.5 cm
536914	KELLY **Artery Forceps,** curved, length 14 cm
536916	**Same,** length 16 cm
537014	**Dissecting Forceps,** straight, without ratchet, length 14 cm
537214	**Same,** slightly curved
537314	**Same,** strongly curved
537222	**Artery Forceps,** slightly curved, without ratchet, length 22.5 cm
539330	**Bulldog Clamp,** curved, length 5 cm
539327	DIEFENBACH **Bulldog Clamp,** curved, length 4 cm

11-03$_2$

Artery Forceps


789610


789614


794014 – 794020

794214 – 794220


794228


794514 – 794520

794814 – 794818

789610	**Forceps,** for parotidectomy, KIEL model, angled, length 17 cm
789614	**Parotid Spreading Forceps,** curved, fine, length 14 cm
794014	ROCHESTER-PEAN **Artery Forceps,** straight, length 14 cm
794016	**Same,** length 16 cm
794018	**Same,** length 18 cm
794020	**Same,** length 20 cm
794214	ROCHESTER-PEAN **Artery Forceps,** curved, length 14 cm
794216	**Same,** length 16 cm
794218	**Same,** length 18 cm
794220	**Same,** length 20 cm
794228	ADSON **Artery Forceps,** curved 90°, slender, length 18 cm
794514	OCHSNER-KOCHER **Artery Forceps,** straight, 1 x 2 teeth, length 14 cm
794516	**Same,** length 16 cm
794518	**Same,** length 18 cm
794520	**Same,** length 20 cm
794814	OCHSNER-KOCHER **Artery Forceps,** curved, 1 x 2 teeth, length 14 cm
794816	**Same,** length 16 cm
794818	**Same,** length 18 cm

1-91$_3$



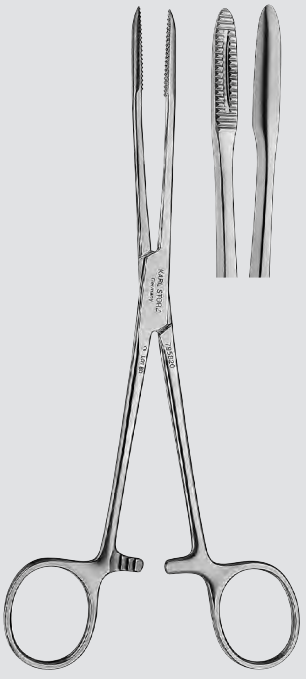
795015
795016



795115



795720



795820
795826



795890

795015	ALLIS **Forceps,** 4 x 5 teeth, length 15 cm
795016	**Same,** 5 x 6 teeth
795115	BRAUN **Hook Forceps,** 4 x 4 teeth, length 15.5 cm
795720	GROSS-MAIER **Dressing and Sponge Holding Forceps,** straight, with groove, without ratchet, length 20 cm
795820	GROSS **Dressing and Sponge Holding Forceps,** straight, with ratchet, length 20 cm
795826	MAIER **Dressing and Sponge Holding Forceps,** straight, with ratchet, length 26.5 cm
795890	**Foreign Body Forceps,** slightly curved, serrated, with ratchet, length 21 cm

3-07$_1$

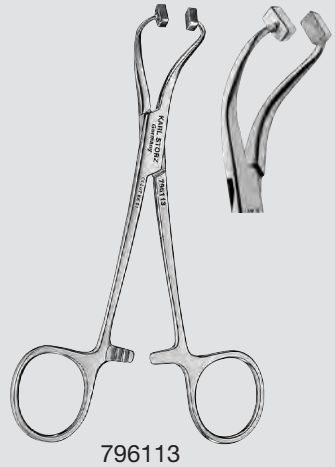
Towel Forceps



796008 –
796013



796109



796113



796209



796413

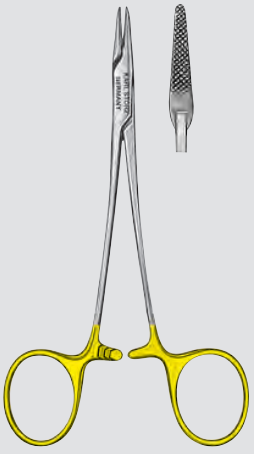


796699

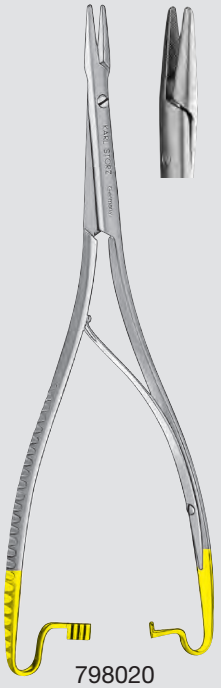
796008	BACKHAUS **Towel Forceps,** length 9 cm
796011	**Same,** length 11 cm
796013	**Same,** length 13 cm
796109	**Towel Forceps,** with serrated inserts, length 9.5 cm, for paper cover sheets
796113	**Towel Forceps,** with serrated inserts, length 13 cm, for paper cover sheets
796209	SCHÄDEL **Towel Forceps,** length 9 cm
796413	EDNA-LORNA **Towel Forceps,** serrated, non-perforating, length 13 cm
796699	**Safety Pin,** for holding ring handle instruments, length 14 cm

3-99$_3$

Needle Holders



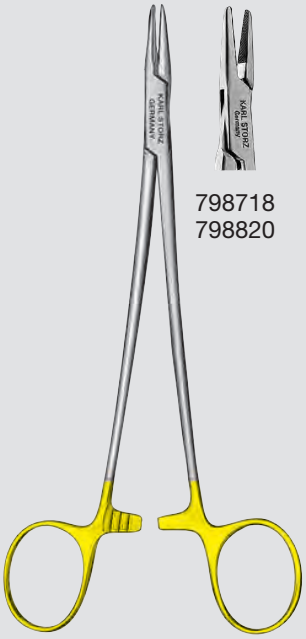
516013
516015



798020



798418



798718
798820

798618

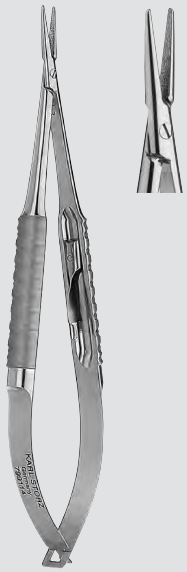


799016 800001 800002 800005

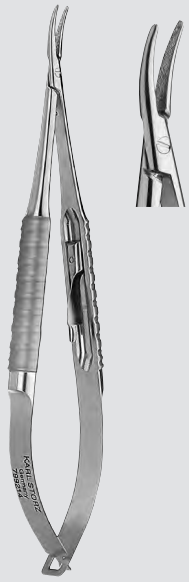
516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
516015	**Same,** length 15 cm
798020	MATHIEU **Needle Holder,** tungsten carbide jaws, slender, length 20 cm
798418	HEGAR **Needle Holder,** slender, length 18 cm
798618	**Same,** tungsten carbide inserts
798718	HEGAR-MAYO **Needle Holder,** tungsten carbide inserts, robust, length 18 cm
798820	HEGAR **Needle Holder,** tungsten carbide inserts, robust, length 20 cm
799016	DRAF **Micro Needle Holder,** extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm
800001	DESCHAMPS **Ligature Needle,** curved to right, length 20 cm
800002	**Same,** curved to left
800005	FISCH **Aneurysm Needle,** curved, length 20 cm

8-874

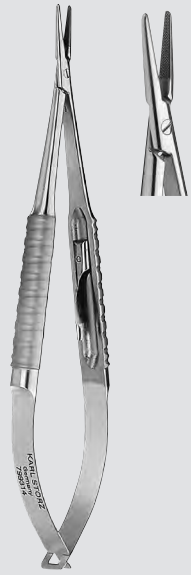
BARRAQUER **Micro Instruments** NEW



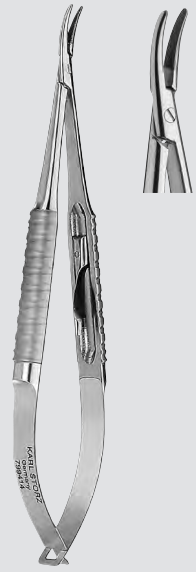
799114



799214



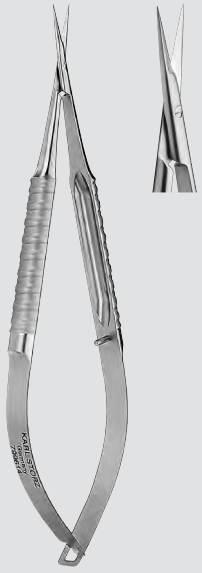
799314



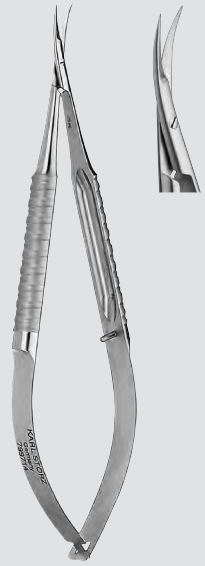
799414

799114	BARRAQUER **Micro Needle Holder,** with round spring handle, straight, smooth-coated jaws, with ratchet, length 14 cm
799118	**Same,** length 18 cm
799214	BARRAQUER **Micro Needle Holder,** with round spring handle, curved, smooth-coated jaws, with ratchet, length 14 cm
799216	**Same,** length 16 cm
799218	**Same,** length 18 cm
799314	BARRAQUER **Micro Needle Holder,** with round spring handle, straight, serrated, tungsten carbide jaws, with ratchet, length 14 cm
799316	**Same,** length 16 cm
799414	BARRAQUER **Micro Needle Holder,** with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm
799418	**Same,** length 18 cm

8-11



799614



799714



799814



799914

799614	**Micro Scissors,** with round spring handle, straight, serrated cutting edge, length 14 cm
799616	**Same,** length 16 cm
799618	**Same,** length 18 cm
799714	**Micro Scissors,** with round spring handle, curved, serrated cutting edge, length 14 cm
799716	**Same,** length 16 cm
799718	**Same,** length 18 cm
799814	**Micro Ring Forceps,** with round spring handle, straight, coated, length 14 cm
799818	**Same,** length 18 cm
799914	**Micro Forceps,** with round spring handle, straight, coated, length 14 cm
799916	**Same,** length 16 cm

8-11

Retractors



786004



800204



786001



786002



786003



786004



786201



786202



786203



786204



800201



800202



800203



800204

786001	**Retractor,** sharp, 1 prong, length 17 cm
786002	**Same,** 2 prongs
786003	**Same,** 3 prongs
786004	**Same,** 4 prongs
786201	**Retractor,** blunt, 1 prong, length 17 cm
786202	**Same,** 2 prongs
786203	**Same,** 3 prongs
786204	**Same,** 4 prongs
800201	**Retractor,** extra fine, sharp, 1 prong, length 12 cm
800202	**Same,** 2 prongs
800203	**Retractor,** extra fine, sharp, 3 prongs, length 13 cm
800204	**Retractor,** extra fine, sharp, 4 prongs, length 13 cm

3-99₂





800401



800402



800403



800404



800406



800411



800422



800424



800502



800503



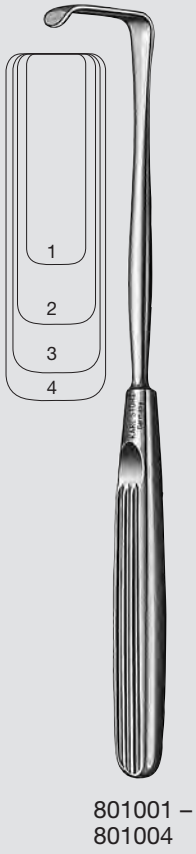
800504



800506

800401	VOLKMANN **Retractor,** sharp, 1 prong, length 21 cm
800402	**Same,** 2 prongs
800403	**Same,** 3 prongs
800404	**Same,** 4 prongs
800406	**Same,** 6 prongs
800411	VOLKMANN **Retractor,** sharp, 1 prong, long curve for cheekbone, length 21 cm
800422	VOLKMANN **Retractor,** semisharp, 2 prongs, size 8.5 x 8 mm, length 22 cm
800424	VOLKMANN **Retractor,** semisharp, 4 prongs, length 21 cm
800502	VOLKMANN **Retractor,** blunt, 2 prongs, length 21 cm
800503	**Same,** 3 prongs
800504	**Same,** 4 prongs
800506	**Same,** 6 prongs

3-99$_3$



801001 –
801004





801020



801022

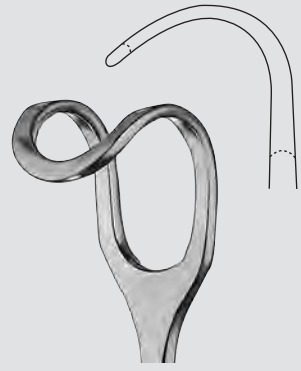


801025





801201



801202

801001	LANGENBECK **Retractor,** size 1, 25 x 7.5 mm, length 22 cm
801002	**Same,** size 2, 31 x 9 mm
801003	**Same,** size 3, 37 x 10.5 mm
801004	**Same,** size 4, 40 x 12 mm
801020	LANGENBECK-GREEN **Retractor,** with flat handle, 10 x 4 mm, length 16 cm
801022	**Same,** 16 x 6 mm
801025	**Same,** 24 x 6 mm
801201	MIDDELDORPF **Retractor,** with grid handle, small, size 1, 15 x 15 mm, length 20 cm
801202	**Same,** medium, size 2, 20 x 20 mm

3-993

801403



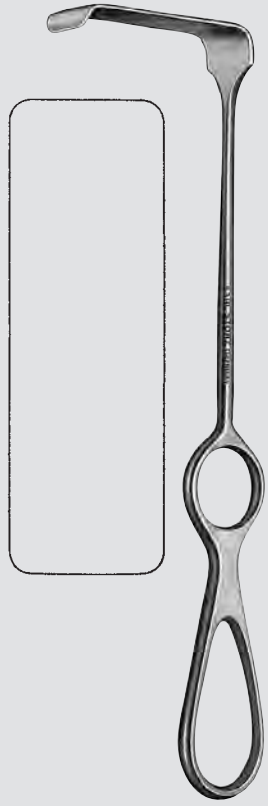
801404



801414



801600



801700



801800



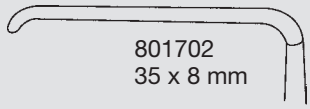
58147

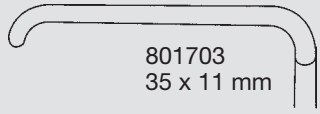
801403	ISRAEL **Retractor,** blunt, 3 prongs, size 36 x 30 mm, length 22 cm
801404	**Same,** 4 prongs, size 40 x 40 mm, length 24 cm
801414	GLANZ **Retractor,** blunt, 4 prongs, curved backwards, size 30 x 12 mm, length 21 cm, for retraction of the jugular vein during throat surgery
801600	LANGENBECK **Retractor,** oval blade, size 60 x 20 mm, length 21.5 cm
801700	**Same,** rectangular blade
801800	LANGENBECK **Retractor,** size 33 x 14 mm, length 21.5 cm
58147	**Orbital Retractor,** angled 80°, with scale, with flat handle, size 40 x 8 mm, length 16 cm

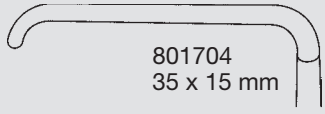
3-99$_3$

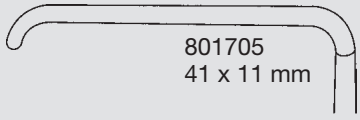
Retractors

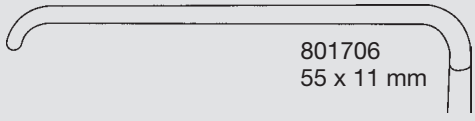


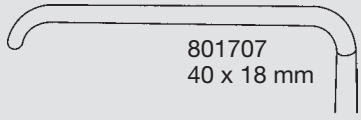


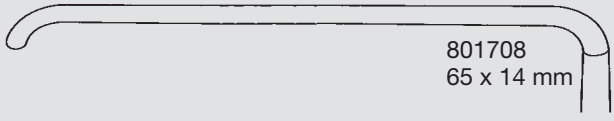














801701 –
801706



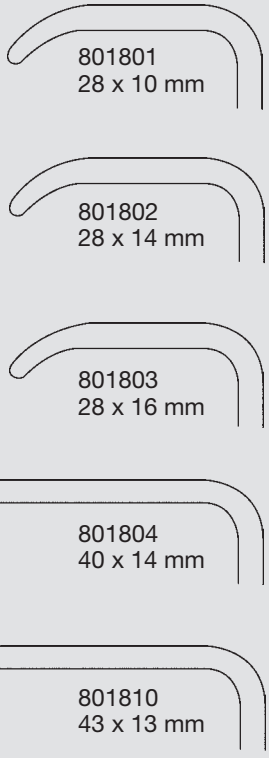
801707
801708

801701	KOCHER-LANGENBECK **Retractor,** size 25 x 6 mm, length 21.5 cm
801702	**Same,** size 35 x 8 mm
801703	**Same,** size 35 x 11 mm
801704	**Same,** size 35 x 15 mm
801705	**Same,** size 41 x 11 mm
801706	**Same,** size 55 x 11 mm
801707	KOCHER **Retractor,** size 40 x 18 mm, length 23 cm
801708	KOCHER-LANGENBECK **Retractor,** size 65 x 14 mm, length 21.5 cm

3-99$_{I}$



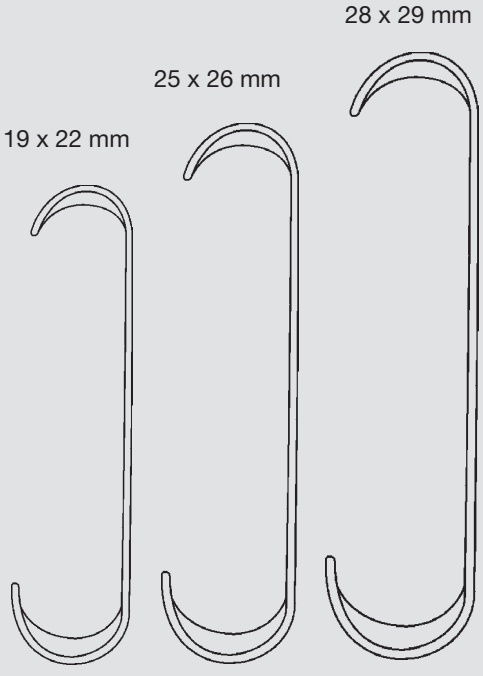
801801 –
801810



801801	LANGENBECK **Retractor,** size 28 x 10 mm, length 21 cm
801802	**Same,** size 28 x 14 mm
801803	**Same,** size 28 x 16 mm
801804	**Same,** size 40 x 14 mm
801810	**Same,** size 43 x 13 mm



801901 –
801903



801901	ROUX **Retractor,** 19 x 22 mm and 23 x 30 mm, length 14.5 cm
801902	ROUX **Retractor,** 25 x 26 mm and 28 x 38 mm, length 15.5 cm
801903	ROUX **Retractor,** 28 x 29 mm and 33 x 45 mm, length 16.5 cm

3-99$_3$



797114 797214 797314 797338 – 797344 797514 797518

797114	**Myrtle Leaf Probe,** diameter 1.5 mm, length 14.5 cm
797214	**Bulbous Probe,** diameter 1.5 mm, length 14.5 cm
797314	**Grooved Director,** length 14.5 cm
797338	**Redon Guide Needle,** angled, with lancet tip, 8 Fr.
797340	**Same,** 10 Fr.
797342	**Same,** 12 Fr.
797344	**Same,** 14 Fr.
797514	LISTER **Bandage Scissors,** length 14 cm
797518	**Same,** length 18 cm

3-99₂

Holders for Endoscopes and Suction Tubes NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Secure, defined resting place during surgical interventions**
- **Time-saving due to continuous access to endoscopes/suction holders in specific, fixed position**
- **In ideal cases allows surgeons independent access to instruments**
- **Holders can be easily mounted to an instrument table**



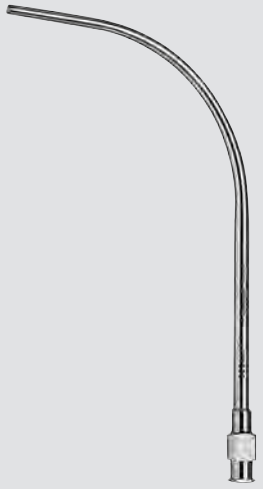
8997 E



8997 K

8997 E	**Endoscope Holder,** for mounting to the instrument table, for secure and optimized storage of endoscopes up to diameter 5 mm
8997 K	**Suction Tube Holder,** for mounting to the instrument table, for secure and optimized storage of suction tubes

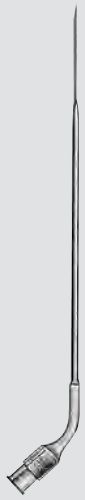
8-11


771506


810502


810503


810505


810506


810802



810805



810806



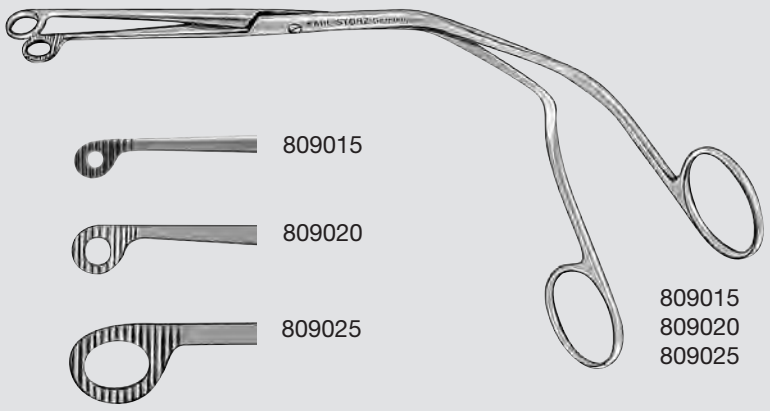
810830



810810
810820
810840

771506	**Larynx Cannula,** LUER-Lock, length 13 cm
810502	**Needle, Tonsil,** LUER-Lock, straight, long
810503	**Same,** 90° forward angle
810505	**Needle, Septum,** LUER-Lock, bayonet-shaped
810506	**Same,** angular
810802	**Cup Medicine,** 25 cm^3, diameter 60 mm, height 28 mm
810805	**Cup Medicine,** 50 cm^3, diameter 57 mm, height 47 mm
810806	**Cup Medicine,** 60 cm^3, diameter 70 mm, height 33 mm
810810	**Cup Medicine,** 100 cm^3, diameter 80 mm, height 30 mm
810820	**Cup Medicine,** 200 cm^3, diameter 100 mm, height 50 mm
810830	**Cup Medicine,** 300 cm^3, diameter 95 mm, height 65 mm
810840	**Cup Medicine,** 400 cm^3, diameter 130 mm, height 65 mm

3-99$_2$



809015	MAGILL **Forceps,** for the introduction of endo-tracheal tubes, for infants and small children, length 15 cm
809020	**Same,** for children, length 20 cm
809025	**Same,** for adults, length 25 cm

3-99$_3$



810803



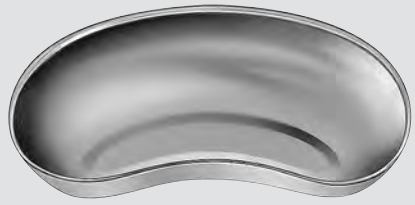
810850



815500



815200 –
815213



820517 –
820527

810803	**Cup Medicine,** stainless steel, diameter 65 mm, height 20 mm
810850	**Cup Medicine,** with handle, 350 cm^3, diameter 70 mm, height 90 mm
815200	**Jar,** stainless steel, diameter 5 cm, height 17.5 cm
815213	**Same,** height 13 cm
815500	**Lamp, Alcohol,** glass, with lateral changing hole, 150 cm^3
820517	**Kidney-Shaped Dressing Tray,** stainless steel, length 17 cm
820525	**Same,** length 25 cm
820527	**Same,** length 27.5 cm

3-99$_3$

BEHRBOHM/LEITHÄUSER NEW
ENT Basic Examination Set

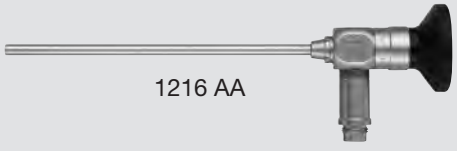
Special Features:

- **Enables basic ENT examinations and function tests**
- **All instruments are stored securely in a special leather pouch**



826201

826201 **ENT Diagnosis Set,** for outpatient basic ENT treatments
including:
Leather Bag for ENT Diagnosis Set, with divided main compartment and 2 detachable side pockets
Nystagmus Spectacles, small model without illumination
LED Penlight, burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)
Tuning Fork, A[1]-440, with stand, small model
Tongue Depressor, wooden, width 19 mm, length 16 cm, package of 100



1216 AA



11301 D4



121300

1216 AA **HOPKINS® Straight Forward Telescope 0°,** for oto-nasopharyngoscopy, diameter 4 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated,
color code: green

11301 D4 **Battery Light Source LED for Endoscopes,** with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection,** with 2 Photo Batteries 121306 P

121300 HEINE **Otoscope,** otoscope head with fiber optic light transmission incorporated
including:
Ear Specula, outer diameter 2.5 – 5 mm
Battery Handle
2x **1.5 Volt Battery**
Spare Lamp

8-11

Please note: Image for 826201 also contains optional accessories.

Components/Spare Parts see chapter 16

ENT Trolley for Visits



826101

826101 **ENT Trolley for Visits,** aluminium case, silver, weight: 5.5 kg, with spacious compartments for documents and notebook, inner dimensions (w x h x d): 420 x 360 x 190 mm

Recommended contents:

094120 **LED Headlight,** light model, **with white light,** rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance

122003 HARTMANN **Ear Speculum,** standard model, outer diameter 3 mm, length 3.6 cm

2x 122004 **Same,** outer diameter 4 mm
3x 122005 **Same,** outer diameter 5 mm
3x 122006 **Same,** outer diameter 6 mm
122007 **Same,** outer diameter 7.5 mm

150100 STACKE **Ear Probe,** silver, length 10.5 cm

10x 151011 **Cotton Applicator,** standard model, triangular serrated, diameter 1.1 mm, working length 13 cm

2x 152301 **Ear Hook,** without ball end, size 1, length 15.5 cm

2x 152202 WAGENER **Ear Hook,** with ball end, size 2, length 15.5 cm

2x 153001 WEBER-LOCH **Ear Curette,** size 1, length 14.5 cm

2x 153310 BUCK **Ear Curette,** blunt, size 0, length 14.5 cm

2x 153301 **Same,** size 1

5x 156000 LUCAE **Ear Forceps,** bayonet-shaped, length 14.5 cm

162500 STRÜMPEL **Ear Forceps,** working length 8 cm

5x 400500 HARTMANN **Nasal Speculum** for adults, length 13 cm

402000 HALLE-TIECK **Nasal Speculum,** for infants, length 13 cm

403555 KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 55 mm, length 13.5 cm

423700 REUTER **Epistaxis Balloon Catheter,** sterile

10x 740000 BRÜNINGS **Tongue Depressor,** length 19 cm

4x 767901 **Laryngeal Mirror,** with handle, size 1
6x 767906 **Same,** size 6

785005 BRÜNINGS **Life-Saving Tube,** outer diameter 5 mm, length 20 cm

785007 **Same,** outer diameter 7 mm

791202 **Scissors,** curved, sharp/blunt, length 14.5 cm

792402 **Dressing Forceps,** medium, length 14.5 cm

793402 **Tissue Forceps,** 1 x 2 teeth, medium, length 14.5 cm

15006 B "ULTRA STOP" **Antifog Solution,** 25 ml, pipette bottle

1216 AA **HOPKINS® Straight Forward Telescope 0°,** for oto-nasopharyng-oscopy, diameter 4 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

11301 D4 **Battery Light Source LED for Endoscopes,** with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection,** with 2 Photo Batteries 121306 P

8-11

Accessories for Oto-Rhino-Laryngoscopy

Antifog Solution



15006 B



15006 C



15006 D

15006 B	"ULTRA STOP" **Antifog Solution,** 25 ml, pipette bottle
15006 C	"ULTRA STOP" **Antifog Solution,** 30 ml, sterile, pierce bottle
15006 D	"ULTRA STOP" **Antifog Solution,** 15 ml, atomizer bottle

3-99



BIPOLAR AND UNIPOLAR COAGULATION

TAKE-APART® Bipolar Forceps NEW

For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV

bipolar



462020

462020 **TAKE-APART®** CASTELNUOVO **Bipolar Forceps,** with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning

including:

Bipolar Ring Handle
Outer Sheath
Inner Sheath
Forceps Insert



462023

462023 **TAKE-APART® Bipolar Forceps,** with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning

including:

Bipolar Ring Handle
Outer Sheath
Inner Sheath
Forceps Insert

8-11

Components/Spare Parts see chapter 16

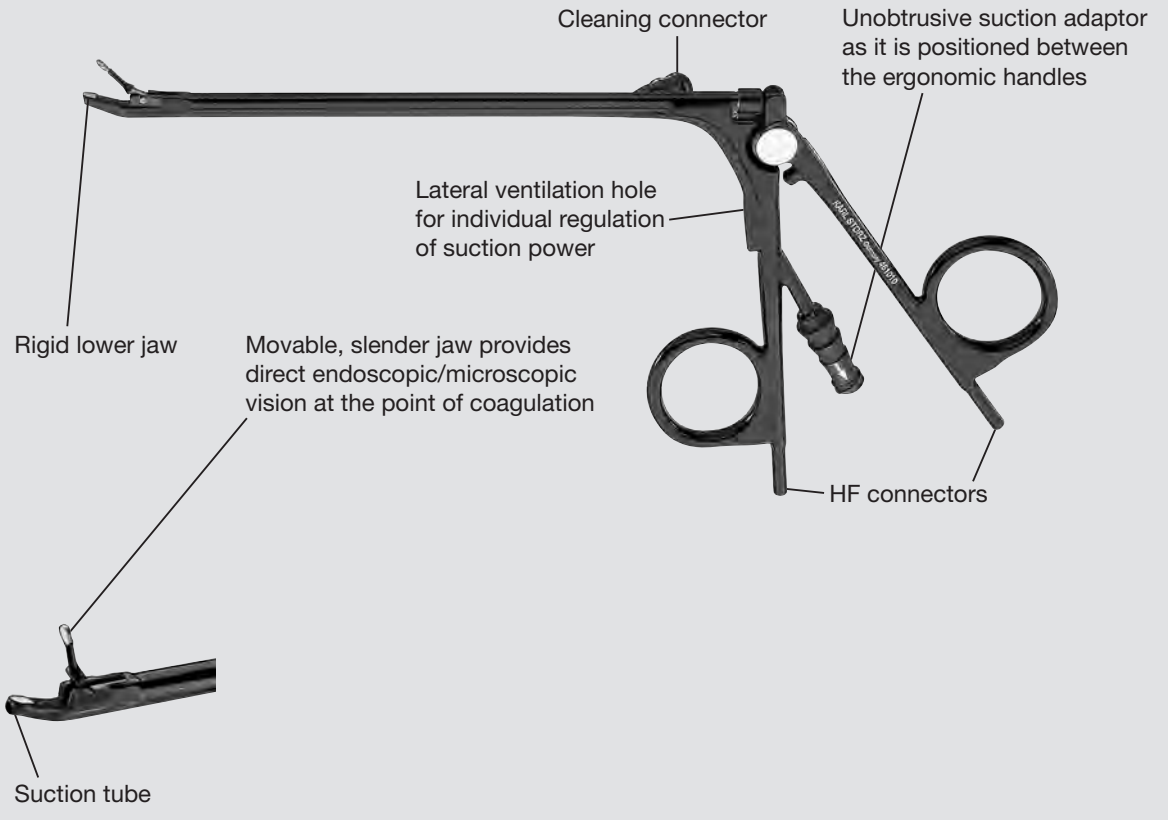
STAMMBERGER **Bipolar Suction Forceps**

KARL STORZ — ENDOSKOPE

bipolar

Special Features:

- **Design similar to standard paranasal grasping forceps**
- **Integrated suction channel**
- **Individual suction power regulation**
- **Bipolar coagulation**
- **Insulated except for small coagulation area on the instrument tip**
- **Single action jaws**
- **Distance between cautery poles may be varied, enabling punctual and extensive coagulation**
- **Special design of the movable jaw provides direct endoscopic/ microscopic vision at the point of coagulation**
- **Two instrument heads: angled 15° and 45° to the instrument sheath**
- **Slim design enables good availability of previously hard to reach regions for cauterization**



3-07₂

STAMMBERGER **Bipolar Suction Forceps**

KARL STORZ — ENDOSKOPE

bipolar

Indications/Applications:

- **Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)**
- **Skull base surgery**
- **Oozing hemorrhage from the mucosa edges**
- **Pituitary gland surgery**
- **Vascular processes, i.e. nasopharyngeal fibroma**
- **Epistaxis**
- **Rendu-Osler-Weber disease**
- **Secondary hemorrhage, i.e. from adenotomes in the nasopharynx**
- **Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)**
- **Turbinate cauterization**



461010



461010 STAMMBERGER **Bipolar Suction Forceps,** 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015 STAMMBERGER **Bipolar Suction Forceps,** 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

3-07$_1$

Bipolar High Frequency Cords see pages 426-428

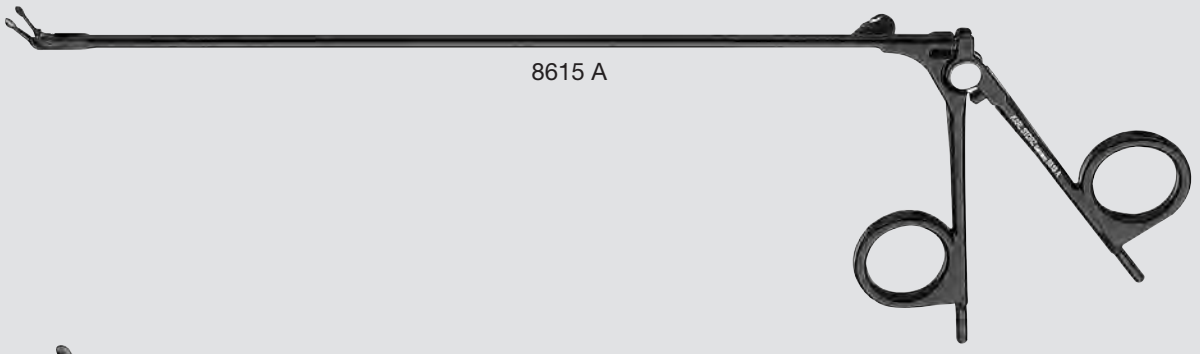
Bipolar Forceps

KARL STORZ — ENDOSKOPE

bipolar

Special Features:

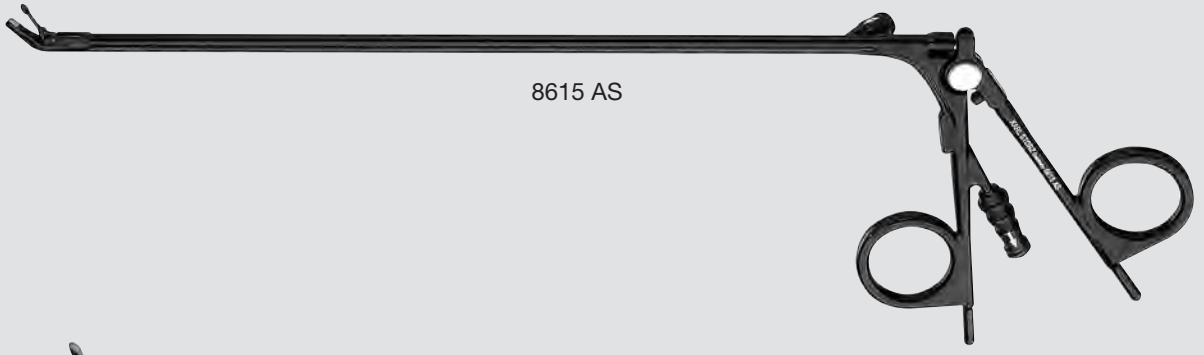
- **Bipolar coagulation**
- **Insulated except for small coagulation area on the instrument tip**
- **Single action jaws**
- **Distance between cautery poles may be varied, enabling punctual and extensive coagulation**
- **With and without suction**
- **Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation**
- **Slim design enables good availability of previously hard to reach regions for cauterization**



8615 A



8615 A **Bipolar Forceps,** jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS



8615 AS **Bipolar Suction Forceps,** jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

1-08

Bipolar High Frequency Cords see pages 426-428

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

bipolar





841116 **Bipolar Coagulation Forceps,** insulated, straight, pointed, length 16 cm



841216 **Same,** blunt, tip 1 mm, length 16 cm

841216 G **Same,** blunt, **with silver tip,** tip 1 mm



841219 **Same,** blunt, tip 1 mm, length 19 cm

841219 G **Same,** blunt, **with silver tip,** tip 1 mm, length 19 cm



842016 **Bipolar Coagulation Forceps,** insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm



842116 **Bipolar Coagulation Forceps,** insulated, angled tip, tip 0.5 mm, length 16 cm



842216 **Bipolar Coagulation Forceps,** insulated, angled tip, blunt, tip 1 mm, length 16 cm

842216 G **Same, with silver tip**



842219 **Same,** blunt, tip 2 mm, length 19 cm

842219 G **Same,** blunt, **with silver tip,** tip 2 mm, length 19 cm



842319 **Same,** length 19 cm

842319 G **Same, with silver tip,** length 19 cm

3-995

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

bipolar



843016 **Bipolar Coagulation Forceps,** insulated, angular, very delicate, tip 0.2 mm, length 16 cm



843016 F **Same,** grip insulated, front part not insulated, pointed



843116 **Bipolar Coagulation Forceps,** insulated, angular, pointed, length 16 cm



843219 **Bipolar Coagulation Forceps,** insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm



844116 **Bipolar Coagulation Forceps,** insulated, bayonet-shaped, pointed, length 16 cm



844216 **Same,** blunt, tip 1 mm

844216 G **Same,** blunt, **with silver tip,** tip 1 mm



844119 **Same,** blunt, tip 2 mm, length 19 cm



844219 **Same,** blunt, tip 1 mm, length 19 cm

844219 G **Same,** blunt, **with silver tip,** tip 1 mm, length 19 cm



844319 **Same,** slender, tip 0.5 mm, length 19 cm

3-99$_{5}$

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

bipolar



844320 **Bipolar Coagulation Forceps,** insulated, bayonet-shaped, blunt, with integrated suction channel and cut-off hole, tip 1.4 mm, length 20 cm



844321 **Same,** tip 2 mm, length 20 cm



844421 **Bipolar Coagulation Forceps,** insulated, bayonet-shaped, tip 0.3 mm, length 21 cm



844423 **Same,** length 23 cm



844521 **Same,** blunt, tip 0.7 mm, length 21 cm



844523 **Same,** tip 0.7 mm, length 23 cm



844621 **Same,** blunt, tip 1 mm, length 21 cm



844623 **Same,** blunt, tip 1.2 mm, length 23 cm



844721 **Same,** blunt, tip 2 mm, length 21 cm



845219 **Bipolar Coagulation Forceps,** insulated, angled tip, bayonet-shaped, blunt, tip 2 mm, length 19 cm

845219 G **Same, with silver tip**

11-03$_3$

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

bipolar



845518

Bipolar Coagulation Forceps, insulated, for nasopharynx, tip curved 60°, blunt, tip 2 mm, length 18 cm



845721

Bipolar Coagulation Forceps, insulated, for nasopharynx and adenoidectomy, tip with long 90° curve, with integrated suction channel, with cut-off hole, length 21 cm



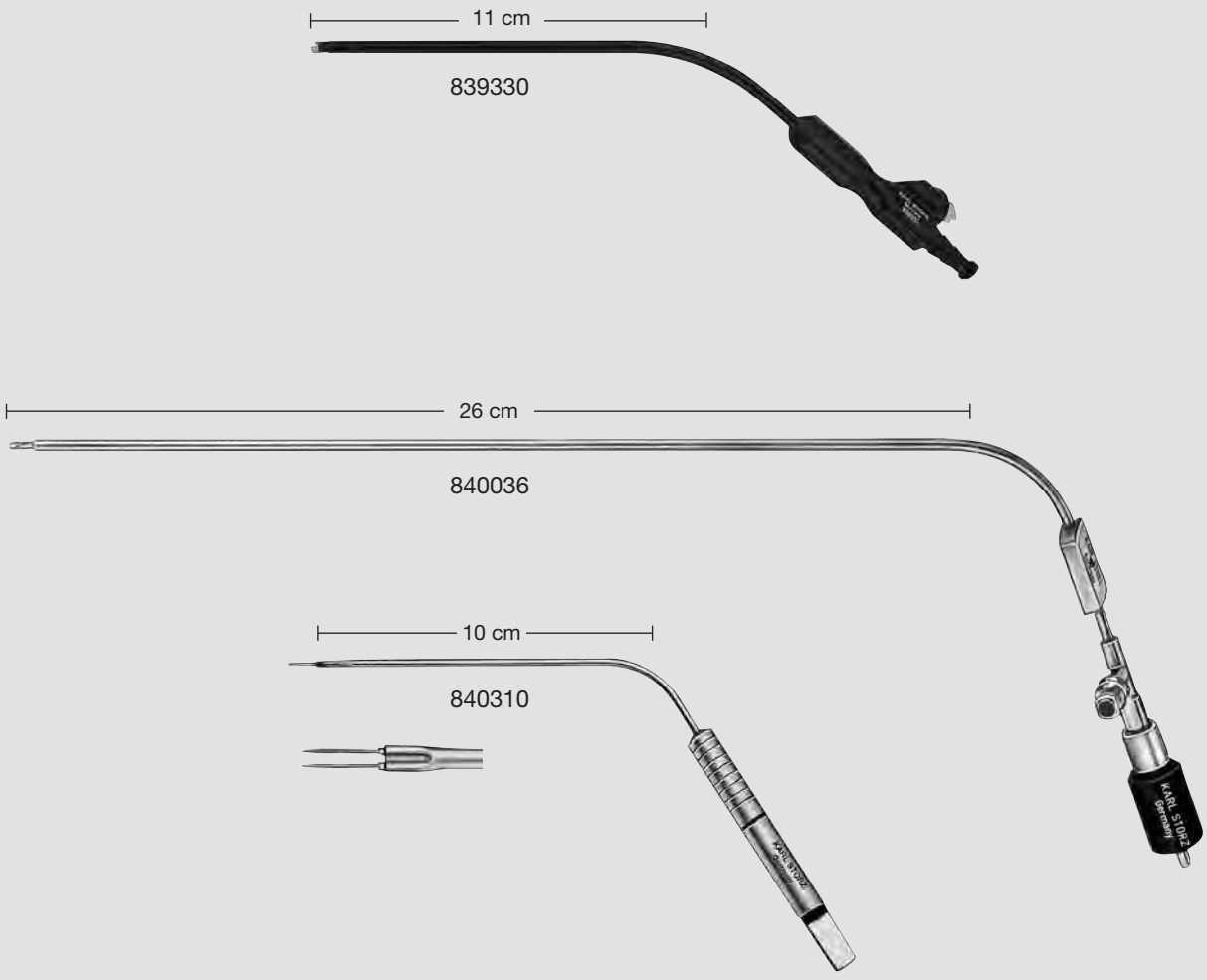
845821

Bipolar Coagulation Forceps, insulated, for oral cavity and tonsillectomy, tip with short 45° curve, with integrated suction channel, with cut-off hole, length 21 cm

3-99$_3$

Bipolar Coagulation

bipolar



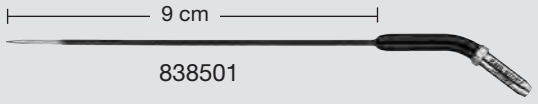
NEW 839330 BRINER **Bipolar Suction Cannula,** angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

840036 **Bipolar Coagulation Electrode,** straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV

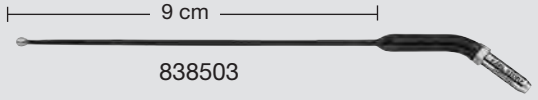
840310 **Bipolar Needle,** for submucosa coagulation of the inferior turbinate, pointed, angular, working length 10 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

3-99$_3$

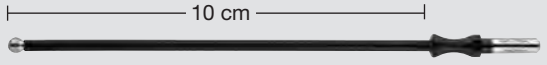
unipolar



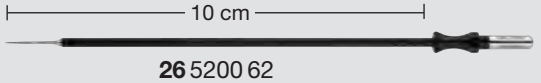
838501



838503



26 5200 60



26 5200 62

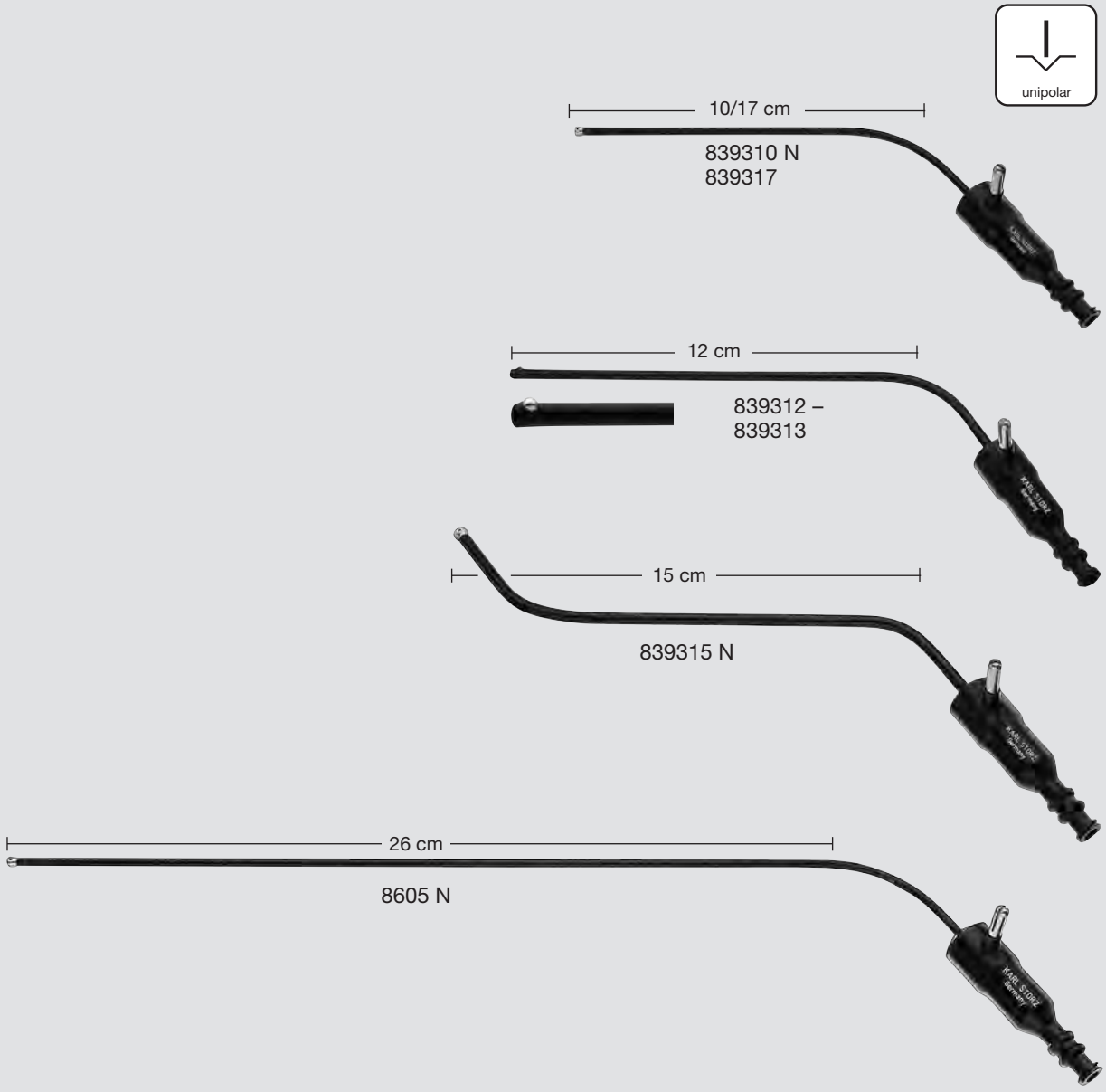


26 5200 46

838501	**Needle Electrode,** for sub mucosa diathermy of the inferior turbinate, working length 9 cm
838503	**Ball Electrode,** for epistaxis, working length 9 cm
26 5200 60	**Ball Electrode,** straight, diameter 4 mm, working length 10 cm
26 5200 62	**Needle Electrode,** straight, working length 10 cm
26 5200 46	**Electrode Handle,** without buttons, with integrated connecting cable, length 300 cm

8-11

Unipolar Coagulation



839310 N	**Suction Cannula,** for nose, straight, outer diameter 3 mm, working length 10 cm
839312	SIMMEN **Suction Cannula,** for nose and epistaxis, angular, insulated, malleable, distal with not insulated horn, outer diameter 3.5 mm, working length 12 cm, for use with Unipolar High Frequency Cords 26005 M/MW, 26004 M/MW, 26002 M, 26006 M
839312 A	**Same,** outer diameter 4 mm
839313	**Same,** outer diameter 4.5 mm
839315 N	**Suction Cannula,** for nasopharynx, curved upwards, malleable, outer diameter 4 mm, working length 15 cm
839317	**Coagulation Suction Tube,** angular, outer diameter 3 mm, working length 17 cm
8605 N	KLEINSASSER **Suction and Coagulation Cannula,** outer diameter 3 mm, working length 26 cm

8-11



HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB

AUTOCON® 200

AUTOCON® 50

AUTOCON® II 400 SCB, AUTOCON® 200/50

Special Features

KARL STORZ — ENDOSKOPE

Special Features:	AUTOCON® II 400 SCB	AUTOCON® 200	AUTOCON® 50
Degree of coagulation (effect) can be preselected in several steps: The degree of coagulation measures extent of coagulation depth	●	●	●
Soft coagulation and/or standard coagulation: coagulation with unmodulated HF voltage (Up < 200 V); the coagulation electrode can be positioned in direct contact with the tissue without damaging deeper layers of tissue through carbonisation	●	●	●
Forced coagulation: coagulation with modulated HF voltage (Up > 500 V); to reach deeper coagulation zones, electric arcs are generated between the active coagulation electrode and the tissue. Damage to deeper layers of tissue has to be accepted.	●	●	●
Autostart function: manual adjustment of operating time limit for bipolar coagulation	●	–	–
Voltage-regulated cutting	●	●	●
Service port for software updates and HF functionality upgrades	●	–	–
Separate papillo-cut and gastro-cut functions enable fractionated cutting with regulated HF current at different cutting speeds for flexible endoscopy	●	–	–
Autostart function for bipolar coagulation: Automatic activation of coagulation current as soon as coagulation electrode touches tissue with both branches	●	●	–
Activation of HF functions possible via footswitch or manual control switch	●	●	●
Bipolar resection with KARL STORZ bipolar electrotomes	●	–	–
Bipolar application with NaCl irrigation solution	●	–	–
Connecting sockets for unipolar and bipolar applications can be selected according to individual requirements	●	–	–
100 applications with text can be stored	●	–	–
Convenient use via 6.5" Touch Screen	●	–	–
Switchover function enables switching between two modes within a user program via a footswitch from the sterile area	●	–	–
Compatible with KARL STORZ Communication Bus (KARL STORZ-SCB)	●	–	–
Interdisciplinary use	●	–	–
Spray coagulation: Coagulation with modulated HF voltage (Up > 500 V); very long arcs enable coagulation of large and bleeding areas of tissue without contact to tissue	●	–	–
Arc-controlled cutting, unipolar	●	–	–

11-05₁

AUTOCON® II 400 SCB

Specifications

KARL STORZ — ENDOSKOPE

HF-Modes	Effects	P max. at 500 Ohm	V_p max. at 500 Ohm	Crest-Factor	Arc Control	Voltage Control
Unipolar						
TOP-Cut	8	300	950	1.4	●	–
POWER-Cut	8	300	740	1.4	–	●
C-Cut	8	200	1450	3.0	–	●
LAP-C-Cut	8	200	1450	3.0 – 3.8	–	●
Gastro-Cut	4	200	880	1.4	–	●
Papillo-Cut	4	200	880	1.4	–	●
Standard Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Forced Coag	4	120	1800	6.0	–	●
Spray Coag	2	120	4300	7.4	–	●
Bipolar						
Bipolar-Cut	8	100	740	1.4	–	●
Saline-C-Cut	8	370	770	1.4	–	●
Saline-Time-C-Cut	8 time 0.1-1 sec.	370	770	1.4	–	●
Saline Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Saline-Time-Coag	8 time 0.1-1 sec.	200 (at 50 Ohm)	190	1.4	–	●
Bipolar Soft Coag	8	120 (at 75 Ohm)	190	1.4	–	●
Bipolar Soft with Auto-Stop	8	120 (at 75 Ohm)	190	1.4	–	●
Bi-Vascular-Safe	8	120 (at 75 Ohm)	190	1.4	–	●

Specifications:

Safety Systems	- Automatic Self-Test - Maldosage - Neutral Electrode Safety System (dynamic, two-part, one- and two-part NE) - LF/HF Leakage Current Monitor - Activation Time - Deactivable HF

Power Supply	**20** 5352 20-11x: 230 VAC, 50/60 Hz **20** 5352 20U11x: 115 VAC, 50/60 Hz
Dimensions w x h x d	448 x 164 x 345 mm
Weight	10 kg
Certified to	IEC 601-1, CE acc. to MDD

11-05

AUTOCON® II SCB 400

High Frequency Surgery Unit,
Recommended System Configurations

KARL STORZ — ENDOSKOPE



AUTOCON® II 400 SCB,
power supply 220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

AUTOCON® II 400 SCB, Set	AUTOCON® II 400 SCB	Socket Position 1	2	3	4
Standard					
20 5352 01-111	**20** 5352 20-111	Bipolar	Bipolar	Unipolar 3-pin and Erbe	Neutral Electr. 6.3 mm jack
20 5352 01-112	**20** 5352 20-112	Bipolar US-2-pin	Bipolar US-2-pin	Unipolar 3-pin and Bovie	Neutral Electr. 2-pin
Bipolar					
20 5352 01-113	**20** 5352 20-113	Bipolar	Bipolar	Bipolar Multifunction	Blind Socket
20 5352 01-114	**20** 5352 20-114	Bipolar US-2-pin	Bipolar US-2-pin	Bipolar Multifunction	Blind Socket
High-End					
20 5352 01-115	**20** 5352 20-115	Bipolar	Bipolar Multifunction	Unipolar 3-pin and Erbe	Neutral Electr. 6.3 mm jack
20 5352 01-116	**20** 5352 20-116	Bipolar US-2-pin	Bipolar Multifunction	Unipolar 3-pin and Bovie	Neutral Electr. 2-pin

11-05

Optional Accessories for AUTOCON® II 400 SCB see page 424
Components/Spare Parts see chapter 16

AUTOCON® II 400 SCB

System Components

KARL STORZ — ENDOSKOPE

Three-Pedal Footswitch



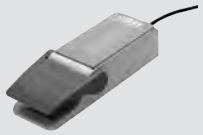
20 017831

Two-Pedal Footswitch



20 017830

One-Pedal Footswitch



20 017832

UNIT SIDE

PATIENT SIDE



SCB®

Bipolar High Frequency Cord



847000 E

Unipolar High Frequency Cord



26 5200 45

Handle



26 5200 43

Unipolar High Frequency Cord



26005 M

Connecting Cable



27806
27806 A

Bipolar Coagulating Forceps



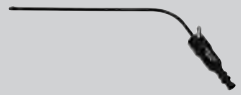
841116

Knife Electrode



26 5200 36

Insulated Suction Cannula



839312

Neutral Electrode



27805

11-05

AUTOCON® 200

High Frequency Surgery Unit,
Recommended System Configurations



20 5225 01 **AUTOCON® 200,** power supply 200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

20 5225 01-010 **AUTOCON® 200,**
with ENDOCUT function,
power supply 200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

20 5225 01 C **AUTOCON® 200,** power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

20 5225 01C010 **AUTOCON® 200,**
with ENDOCUT function,
power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

Specifications:

HF Rated Power	**- Cutting** unipolar: 200 Watt/500 Ohm **- Coagulation** unipolar soft: 120 Watt/125 Ohm unipolar standard: 120 Watt/350 Ohm bipolar: 120 Watt/125 Ohm
Max. Voltage	**- Cutting** unipolar: Vp=600 Volt **- Coagulation** unipolar soft: Vp=190 Volt unipolar standard: Vp=1300 Volt bipolar: Vp=190 Volt
Output Control	**- Cutting** unipolar: automatic voltage control **- Coagulation** unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control

Degree of Coagulation	**Cutting** 4 steps
Autostart	**Coagulation** bipolar
Autostop	**Coagulation** unipolar soft
Safety Systems	- permanent power control - maldosage - neutral electrode, safety system - automatic self-test
Power Supply	100-120 VAC or 200-240 VAC, 50/60 Hz
Dimensions w x h x d	305 x 164 x 345 mm
Weight	7.7 kg
Certified to	IEC 601-1, CE acc. to MDD

11-05$_2$

Optional Accessories for AUTOCON® 200 see page 424
Components/Spare Parts see chapter 16

AUTOCON® 200

System Components

KARL STORZ — ENDOSKOPE

Two-Pedal Footswitch



20 013330

UNIT SIDE



PATIENT SIDE

Connecting Cable



27806

Neutral Electrode



860021 E

Bipolar High Frequency Cord



847000 E

Unipolar High Frequency Cord



26 520045

Handle



26 520043

Handle with Cable, unipolar



26 520046

Unipolar High Frequency Cord



26005 M

Bipolar Coagulating Forceps



843116

Knife Electrode



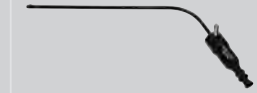
26 520036

Knife Electrode



26 520036

Nasal Needle Electrode



839312

11-05

AUTOCON® 50

High Frequency Surgery Unit,
Recommended System Configuration

KARL STORZ — ENDOSKOPE



20 5205 01 **AUTOCON® 50,** power supply 100/120/230/240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

Specifications:

HF Rated Power	**- Cutting** unipolar: 50 Watt/500 Ohm **- Coagulation** unipolar soft: 50 Watt/200 Ohm unipolar standard: 50 Watt/500 Ohm bipolar: 50 Watt/200 Ohm
Max. Voltage	**- Cutting** unipolar: Vp=600 Volt **- Coagulation** unipolar soft: Vp=190 Volt unipolar standard: Vp=900 Volt bipolar: Vp=190 Volt
Output Control	**- Cutting** unipolar: automatic voltage control **- Coagulation** unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control

Degree of Coagulation	**Cutting** 2 steps
Autostop	**Coagulation** unipolar soft
Safety Systems	- maldosage - neutral electrode, safety system - automatic self-test
Power Supply	100/120/230/240 VAC, 50/60 Hz
Dimensions w x h x d	305 x 110 x 260 mm
Weight	4.6 kg
Certified to	IEC 601-1, CE acc. to MDD

11-05

Optional Accessories for AUTOCON® 50 see page 424
Components/Spare Parts see chapter 16

AUTOCON® 50

System Components

KARL STORZ — ENDOSKOPE

One-Pedal Footswitch



20 013130

Two-Pedal Footswitch



20 013330

UNIT SIDE



PATIENT SIDE

Connecting Cable



27806

Neutral Electrode



860021 E

Bipolar High Frequency Cord



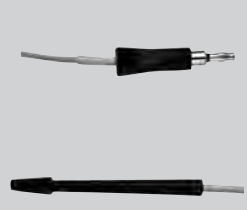
847002 E

Bipolar High Frequency Cord



847000 E

Handle with Cable, unipolar



26 520046

Unipolar High Frequency Cord



26005 M

Bipolar Suction Forceps



461010

Bipolar Coagulating Forceps



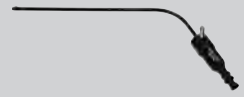
841116

Knife Electrode



26 520036

Nasal Needle Electrode



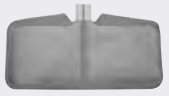
839312

11-05

Optional Accessories

for AUTOCON® II 400 SCB and AUTOCON® 200/50

KARL STORZ — ENDOSKOPE

			for use with		
			AUTOCON® II 400 SCB	AUTOCON® 200	AUTOCON® 50
	**20** 0178 31	**Three-Pedal Footswitch,** with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB	●	–	–
	**20** 0178 30	**Two-Pedal Footswitch,** for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	–	–
	**20** 0178 32	**One-Pedal Footswitch,** for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	–	–
	**20** 0133 30	**Two-Pedal Footswitch,** for controlling the coagulation and cutting function	–	●	●
	**20** 0131 30	**One-Pedal Footswitch,** for controlling the coagulation function	–	●	●
	27805	**Neutral Electrode,** of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm², for use with Connecting Cable 27806	●	●	●
	860021 E	**Neutral Electrode,** of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm², for use with Connecting Cable 27806	–	●	●
	27806	**Neutral Electrode Connecting Cable,** for Neutral Electrodes 27805 and 860021 E, length 400 cm	-111 -115	●	●
	27806 UR	**Neutral Electrode Connecting Cable,** for Neutral Electrode 27805	-112 -116	–	–
	27806 US	**Neutral Electrode Connecting Cable,** for Neutral Electrode 27802	-112 -116	–	–
	27802	**Neutral Electrode,** for single use, contact surface divided into two, A = 169 cm², package of 50, Connecting Cable 27801 required	●	●	●
	27801	**Connecting Cable,** for connecting Neutral Electrode 27802, length 500 cm	-111 -115	●	●
	**26** 5200 43	**Electrode Handle,** with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable **26** 5200 45 required)	●	●	●
	**26** 5200 45	**High Frequency Cable,** for Electrode Handle **26** 5200 43, length 400 cm	-111 -115	●	●
	**26** 5200 46	**Electrode Handle,** without buttons, with integrated connecting cable, length 300 cm	-111 -115	●	●

11-05₂

Surgery Set

Accessories

unipolar



20 5300 08 **Surgery Electrodes Set**
including:

Container with Lid and Sterilization Insert, for
16 electrodes with diameter 4 mm



Wire Snare, 5 mm



Same, 10 mm



Ribbon Snare, 10 mm



KIRSCHNER **Spatula Electrode,**
straight



MAGENAU **Knife Electrode,**
angled downwards



Same, lancet-shaped



Ball Electrode, 2 mm



Same, 4 mm



Same, 6 mm



Needle Electrode



Flat Electrode, 8 x 10 mm



Same, 10 x 15 mm

6-95$_2$

For use with Electrode Handles 26 5200 43 and 26 5200 46
Components/Spare Parts see chapter 16

Unipolar High Frequency Cords

unipolar

KARL STORZ Instrument	High Frequency Surgery Unit		
		26002 M	**Unipolar High Frequency Cord,** with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
		26004 M	**Unipolar High Frequency Cord,** with 4 mm plug for models Berchtold and Martin, length 300 cm
		26005 M	**Unipolar High Frequency Cord,** with 5 mm plug, length 300 cm, for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC
		26006 M	**Unipolar High Frequency Cord,** with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

Bipolar High Frequency Cords

bipolar

KARL STORZ Instrument	High Frequency Surgery Unit		
		26176 LE	**Bipolar High Frequency Cord,** for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
		26176 LM	**Bipolar High Frequency Cord,** for Martin and Berchtold coagulators, length 300 cm
		26176 L	**Bipolar High Frequency Cord,** with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm
		26176 LA	**Bipolar High Frequency Cord,** with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
		26176 LV	**Bipolar High Frequency Cord,** for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm

1-94$_3$

Please note: All high frequency cords of this page are delivered with a length of 300 cm. If a length of 500 cm is requested please add letter **L** to the part number, e. g. 26002 M**L,** 26176 LV**L.**

Bipolar High Frequency Cords

KARL STORZ Instrument	High Frequency Surgery Unit		
		847000 E	**Bipolar High Frequency Cord,** length 300 cm, for AUTOCON® II 400 SCB systems (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® systems (50, 200, 350), Erbe-Coagulator, T and ICC series and KARL STORZ bipolar coagulation forceps
		847000	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug to KARL STORZ Coagulator 26020 XA/XB for KARL STORZ bipolar coagulation forceps, length 300 cm
		847000 A	**Bipolar High Frequency Cord,** length 300 cm, for KARL STORZ Coagulator 260020 XA/XB, Bircher, Bovie, Keymend, Mallis, Valleylab, Neomed, Bard and KARL STORZ bipolar coagulation forceps
		847000 M	**Bipolar High Frequency Cord,** length 300 cm, for KARL STORZ AUTOCON® systems (50, 200, 400), for Martin and Berchtold coagulators, Aesculap coagulator (latest version) and KARL STORZ bipolar coagulation forceps
		847000 V	**Bipolar High Frequency Cord,** length 300 cm, for KARL STORZ AUTOCON® II 400 SCB systems (112, 114, 116, 122, 125), Valleylab coagulators and KARL STORZ bipolar coagulation forceps

Please note:
All high frequency cords on this page are delivered with a length of 300 cm only.

Bipolar High Frequency Cords

bipolar

KARL STORZ Instrument	High Frequency Surgery Unit		
		847002 E	**Bipolar High Frequency Cord,** for KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), AUTOCON® II 400 SCB system (111, 113, 115) and Erbe coagulator, T and ICC series, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm
		847002 M	**Bipolar High Frequency Cord,** for Martin and Berchtold coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm
		847002 A	**Bipolar High Frequency Cord,** with 2x 4 mm banana plug for KARL STORZ coagulator 26020 XA/XB, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm
		847002 V	**Bipolar High Frequency Cord,** for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm

KARL STORZ Instrument	Standard Forceps Bipolar Cords		
		847002 U	**Bipolar Universal High Frequency Cord,** one side with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, other side with standard pin for connection to all current forceps bipolar cords, length 40 cm

for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V see page 427

High Frequency Surgery Units see pages 415-424

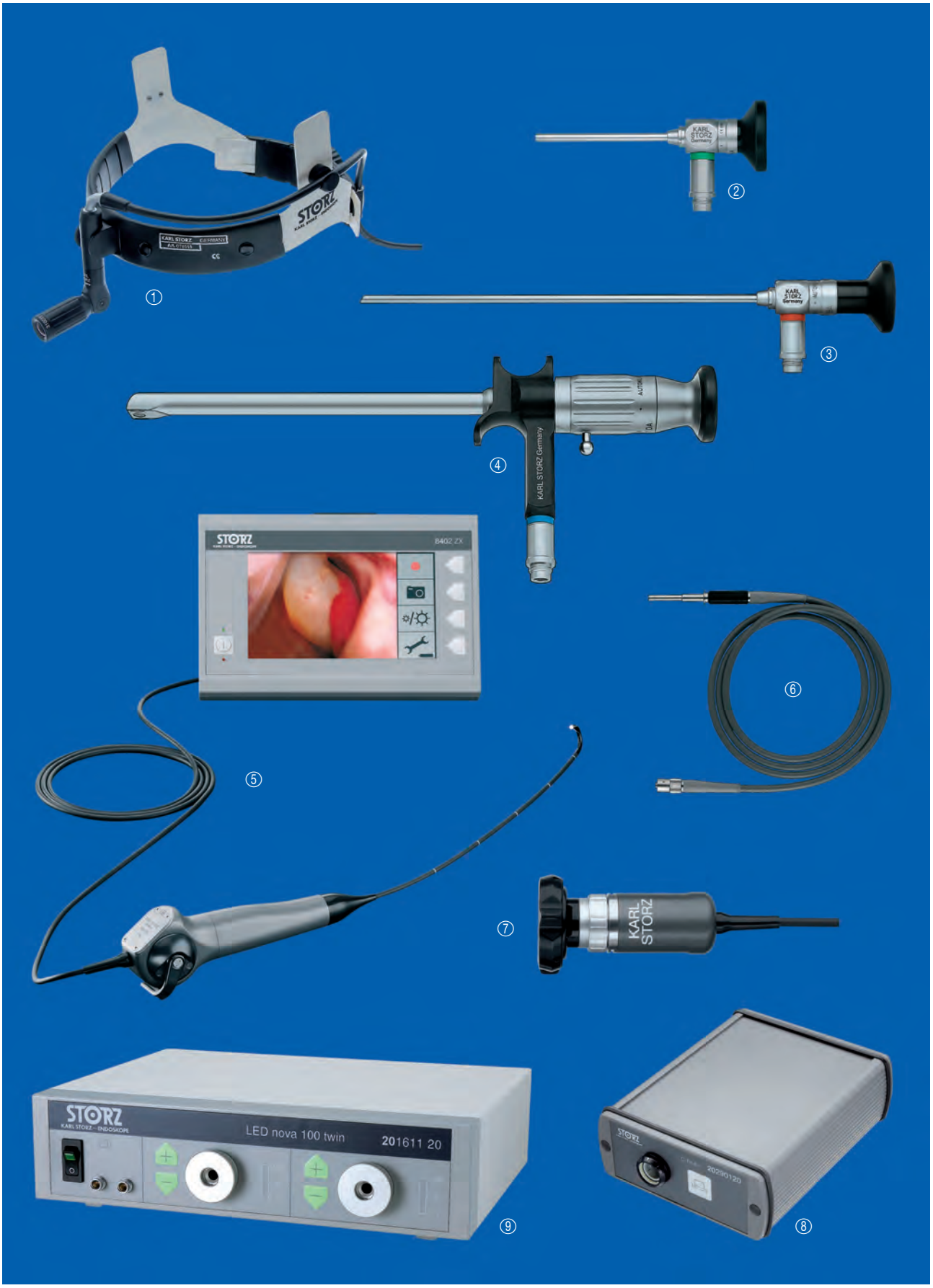
11-05



RECOMMENDED SETS FOR ENT

ENT Basic Set I,
Endoscopes and Illumination

KARL STORZ — ENDOSKOPE



11-03

ENT Basic Set I, Endoscopes and Illumination

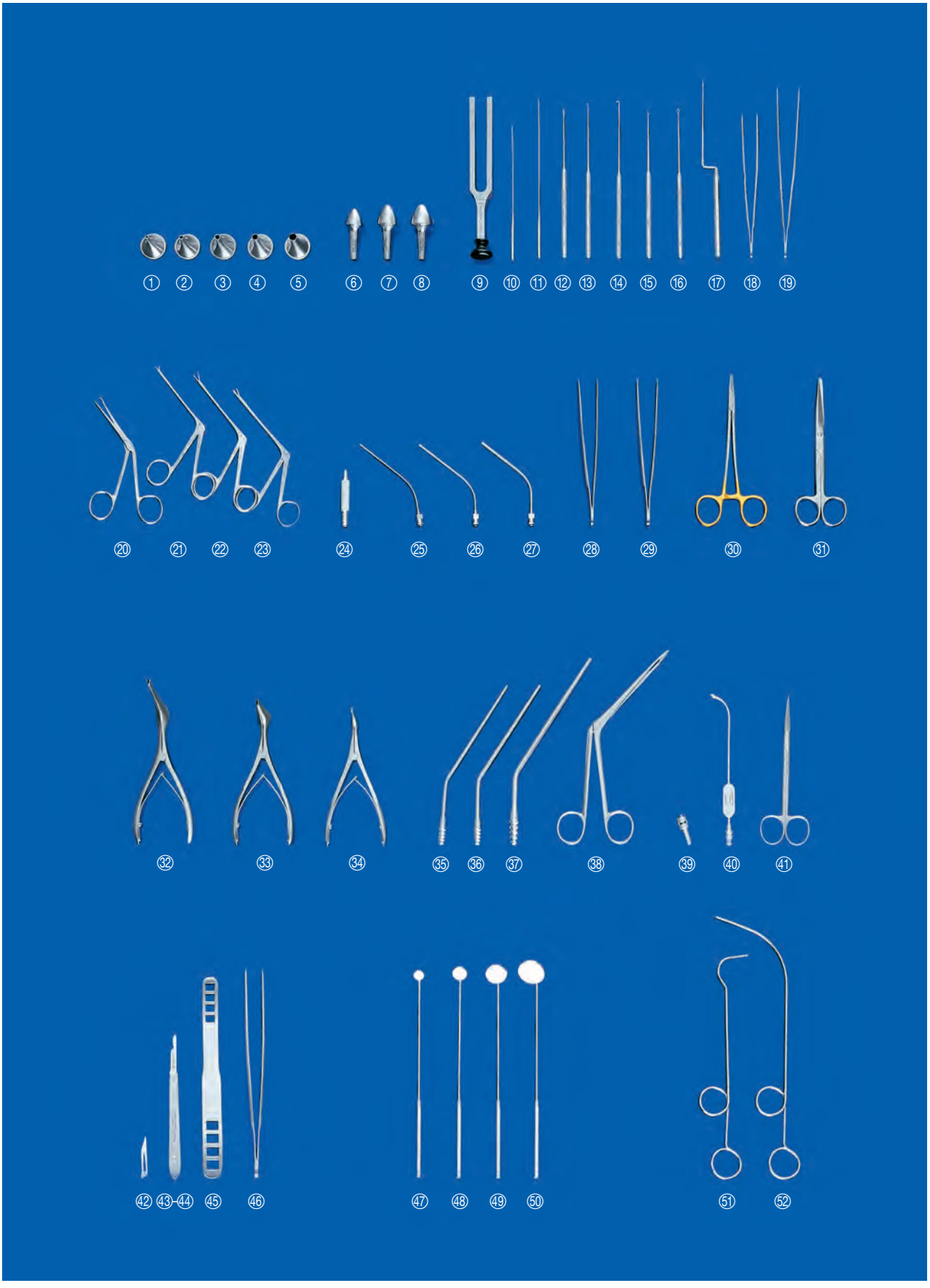
KARL STORZ — ENDOSKOPE

①	310010	**Headlight,** light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source including: **Headband** **Clip with Band**
②	1215 AA	**Tele-Otoscope** with **HOPKINS® Straight Forward Telescope 0°,** diameter 4 mm, length 6 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
③	7230 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
④	8707 DA	**Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable,** fiber optic light transmission incorporated, color code: blue
⑤	11101 CMM	**CMOS Video-Rhino-Laryngoscope with Monitor,** Direction of view: 0° Angle of view: 85° Working length: 30 cm Outer diameter: 3.7 mm Deflection up/down: 140°/140° **Following accessories included:** 11101 CMK **CMOS Video Rhino-Laryngoscope KIT** 8402 ZX **Monitor for CMOS Endoscopes**
⑥	495 NL	**Fiber Optic Light Cable,** diameter 3.5 mm, length 180 cm
⑦	**20** 2901 32	**C-CAM® Camera Head, 8-pin,** one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with 8402 ZX
⑧	**20** 2901 01	**C-HUB® Camera Control Unit,** for use with C-CAM® **20** 2901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, Interfaces: USB 2.0, S-Video output (NTSC), power socket including: **C-HUB® Power Supply** **S-Video (Y/C) Connecting Cable** **USB Connecting Cable**
⑨	**20** 1611 01	**Cold Light Fountain LED NOVA 100 twin,** with two LED lamps and two light outlets, power supply 110 – 240 VAC, 50/60 Hz including: **Mains Cord**

11-03

ENT Basic Set II, Instrument Set

KARL STORZ — ENDOSKOPE



8-94₂

ENT Basic Set II, Instrument Set

KARL STORZ — ENDOSKOPE

①	2x	122003	HARTMANN **Ear Specula,** outer diameter 3 mm
②	5x	122004	**Same,** outer diameter 4 mm
③	10x	122005	**Same,** outer diameter 5 mm
④	10x	122006	**Same,** outer diameter 6 mm
⑤	2x	122007	**Same,** outer diameter 7.5 mm
⑥		142418	**Nasal Tip,** metal, size 18 mm
⑦		142420	**Same,** size 20 mm
⑧		142422	**Same,** size 22 mm
		142000	POLITZER **Air Bag** (not illustrated)
⑨		126000	**Tuning Fork,** A^{1}-440 with stand
⑩	10x	151011	**Cotton Applicators,** diameter 1.1 mm, working length 13 cm
⑪	5x	417013	**Same,** diameter 1.3 mm, length 15 cm
⑫		152600	ZAUFAL **Curved Spatula,** length 14.5 cm
⑬	5x	152301	**Ear Hooks,** without ball end, size 1, length 15.5 cm
⑭	2x	152202	WAGENER **Ear Hooks,** with ball end, size 2, length 15.5 cm
⑮	2x	153310	BUCK **Ear Curettes,** blunt, size 0, length 14.5 cm
⑯	2x	153301	**Same,** size 1
⑰		155200	**Ear Knife,** screw handle, bayonet-shaped, working length 8 cm
⑱	10x	156000	LUCAE **Ear Forceps,** length 14.5 cm
⑲	5x	426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
⑳		158800	HARTMANN **Ear Dressing Forceps,** extra delicate, working length 6 cm
㉑		221100	HARTMANN **Ear Forceps,** extra delicate, serrated, working length 8 cm
㉒		161000	HARTMANN **Ear Forceps,** serrated, working length 8 cm
㉓		162500	STRÜMPEL **Ear Forceps,** working length 8 cm
㉔	2x	204200	FISCH **Adaptors,** for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER-cone, length 5.5 cm
㉕	3x	204315	**Suction Tubes,** straight, LUER-Lock, flexible, outer diameter 1.5 mm, length 10 cm
㉖	6x	204320	**Same,** outer diameter 2 mm
㉗	3x	204325	**Same,** outer diameter 2.5 mm
㉘		792401	**Dressing Forceps,** length 14.5 cm
㉙		793401	**Tissue Forceps,** 1 x 2 teeth, standard width, length 14.5 cm
㉚		516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
㉛		790802	**Scissors,** straight, sharp/blunt, length 14.5 cm
㉜		403575	KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 75 mm, length 13.5 cm
㉝	20x	400500	HARTMANN **Nasal Speculum,** for adults, length 13 cm
㉞	5x	400600	**Same,** for children
㉟	2x	203830	**Suction Tubes,** conical, outer diameter 3 mm
㊱	2x	203835	**Same,** outer diameter 3.5 mm
㊲		203845	**Same,** outer diameter 4.5 mm
㊳		428001	HARTMANN **Nasal Dressing Forceps,** light model
㊴		600007	**LUER-Lock Tube Connector,** male, tube diameter 6 mm
㊵	2x	586025	v. EICKEN **Antrum Cannulas,** LUER-Lock, long curve, outer diameter 2.5 mm, length 12.5 cm
㊶		511414	JOSEPH **Scissors,** curved, length 14 cm
㊷		208211	**Blade,** Fig. 11, sterile, package of 100
㊸		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
㊹		208215	**Blade,** Fig. 15, sterile, package of 100
㊺	20x	740000	BRÜNINGS **Tongue Depressors,** length 19 cm
㊻		750000	**Forceps,** serrated, length 20 cm
		815200	**Jar,** made of stainless steel, diameter 5 cm, height 17.5 cm (not illustrated)
㊼	5x	767900	**Laryngeal Mirror,** with removable hexagonal handle, size 0
㊽	8x	767902	**Same,** size 2
㊾	12x	767906	**Same,** size 6
㊿	5x	767908	**Same,** size 8
(51)		726000	**Postnasal Applicator,** working length 22 cm
(52)		770800	PELTESON **Cotton Applicator,** working length 27 cm
		138805	FRENZEL **Nystagmus Spectacles,** black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V (not illustrated)
		138964	**Spare Lamp,** 4 Volt, for 138805 (not illustrated)
	2x	820525	**Kidney-Shaped Dressing Tray,** stainless steel, length 25 cm (not illustrated)

8-94$_{2}$

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**
39740 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Myringotomy Set




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⑤⑥⑦⑧



⑨–⑩



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8-941

Myringotomy Set

①	122005	HARTMANN **Ear Speculum,** outer diameter 5 mm
②	122006	**Same,** outer diameter 6 mm
③	122007	**Same,** outer diameter 7.5 mm
④	221100	HARTMANN **Ear Forceps,** extra delicate, serrated, working length 8 cm
⑤	153301	BUCK **Ear Curette,** blunt, size 1, length 14.5 cm
⑥	223300	PLESTER **Sickle Knife**
⑦	224303	WULLSTEIN **Needle,** slight curve, length 16.5 cm
⑧	225208	**Pick 90°,** size 0.8 mm
⑨	204200	FISCH **Adaptor,** for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm
⑩	204310	**Suction Tube,** straight, LUER-Lock, malleable, outer diameter 1 mm, length 10 cm
⑪	204313	**Same,** outer diameter 1.3 mm
⑫	204315	**Same,** outer diameter 1.5 mm
⑬	204320	**Same,** outer diameter 2 mm
⑭	230100	TÜBINGEN **Ventilation Tube,** made of precious metal and gold-plated, sterile, package of 10
⑮	239620	**Instrument Rack,** for 5 instruments, size 195 x 100 mm, with holder for ear specula
⑯	239020	**Metal Case,** perforated, 200 x 100 x 40 mm (w x d x h), for 239620

As required:

⑰	1218 AA	**Tele-Otoscope,** with **HOPKINS® Straight Forward Telescope 0°,** diameter 3 mm, length 6 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

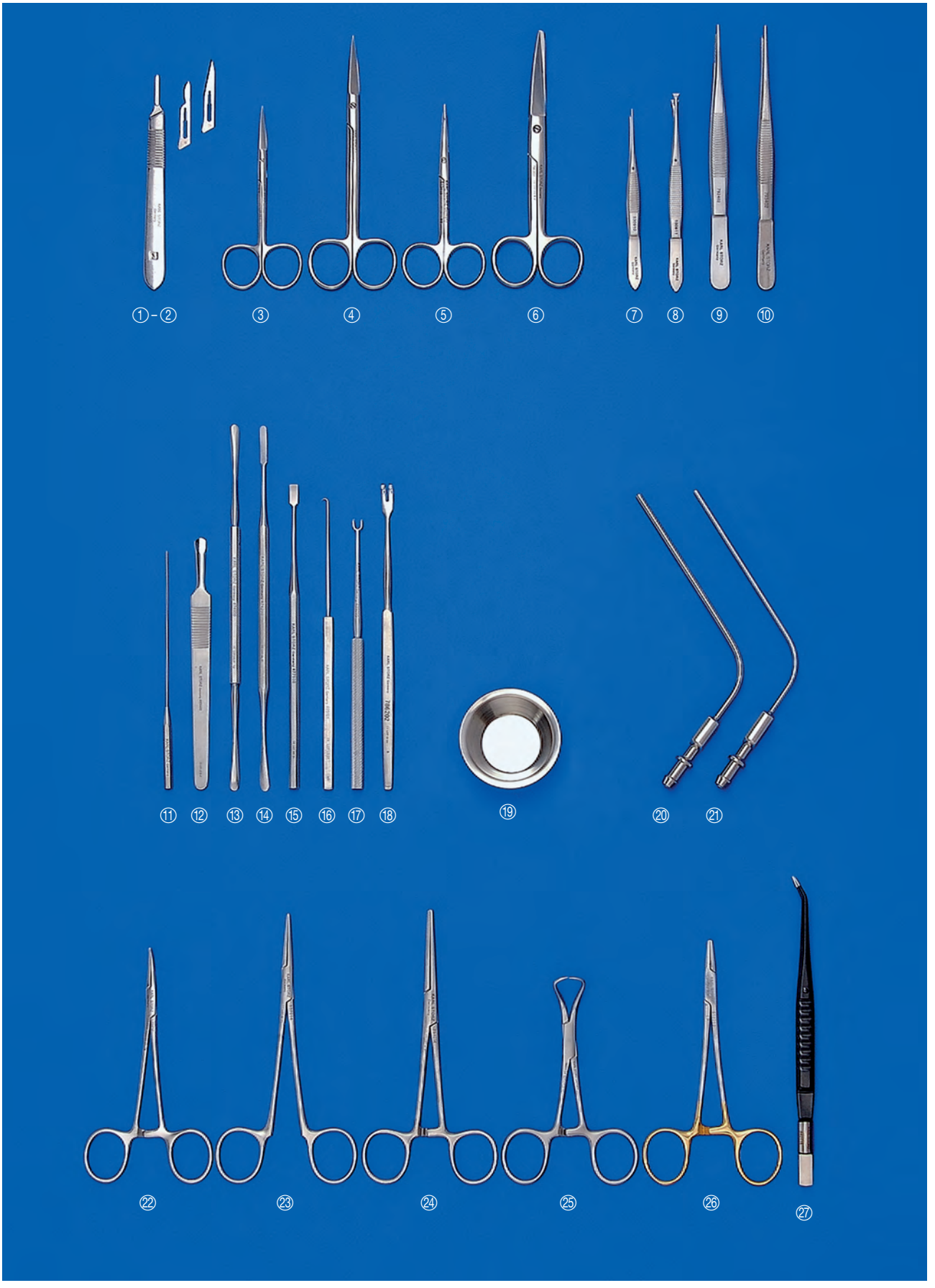
Accessories recommended for containers (not illustrated):

39502 MB **Wire Tray for MiniSet Container for Cleaning, Sterilization and Storage**
39781 A **MiniSet Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94₂

Otoplasty Set



8-94$_3$

Otoplasty Set

①		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
②		208015	**Blade,** Fig. 15, non-sterile, package of 100
		208011	**Blade,** Fig. 11, non-sterile, package of 100 (not illustrated)
③		511210	**Scissors,** extra delicate, curved, length 10 cm
④		511414	JOSEPH **Scissors,** curved, length 14 cm
⑤		513410	COTTLE **Scissors,** curved, length 10.5 cm
⑥		791202	**Scissors,** curved, sharp/blunt, length 14.5 cm
⑦		530910	**Tissue Forceps,** delicate, 1 x 2 teeth, length 10 cm
⑧		530811	**Tissue Forceps,** 7 x 8 fine teeth, length 11 cm
⑨		792402	**Dressing Forceps,** length 14.5 cm
⑩		793402	**Tissue Forceps,** length 14.5 cm
⑪		151011	**Cotton Applicator,** triangular serrated, working length 13 cm
⑫		493000	COTTLE **Nasal Knife,** rounded edge, length 14 cm
⑬		474000	FREER **Elevator,** double-ended, length 20 cm
⑭		474200	FREER-JOSEPH **Elevator,** double-ended, length 20 cm
⑮		477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
⑯		499101	**Hook,** one prong, large curve, length 16.5 cm
⑰		499205	JOSEPH **Double Hook,** sharp, width 5 mm, length 15 cm
⑱		786202	**Retractor,** blunt, 2 prongs, length 17 cm
⑲		810802	**Cup Medicine,** 25 ccm
⑳		204810	FERGUSON **Suction Tube,** 10 Fr.
㉑		204808	**Same,** 8 Fr.
㉒	6x	535212	HALSTEAD **“Mosquito” Artery Forceps,** curved
㉓		537014	**Dissecting Forceps,** straight, without ratchet, length 14 cm
㉔		794014	ROCHESTER-PEAN **Artery Forceps,** straight, length 14 cm
㉕	6x	796011	BACKHAUS **Towel Forceps,** length 11 cm
㉖		516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
㉗		842116	**Bipolar Coagulation Forceps,** length 16 cm

Accessories recommended for containers (not illustrated):

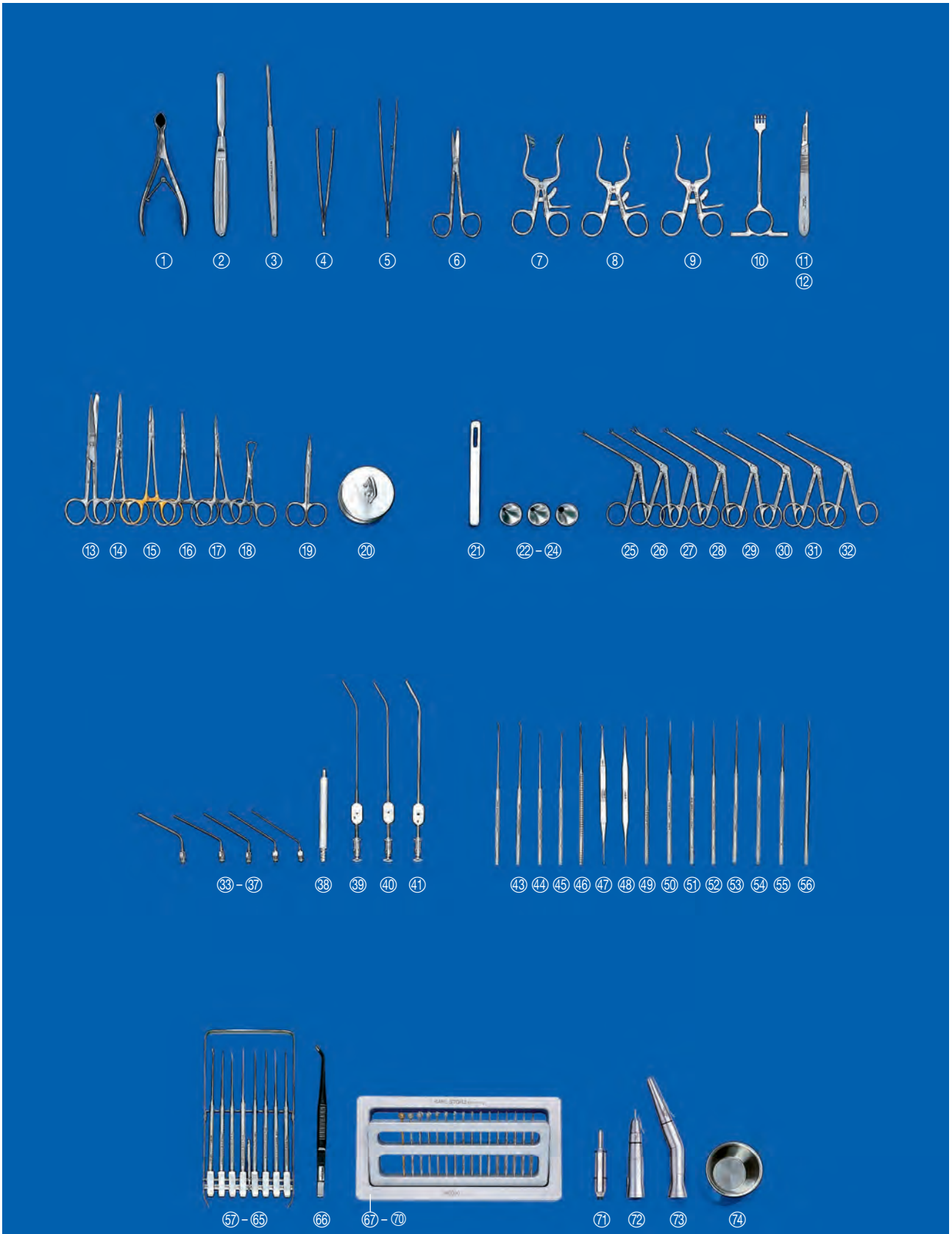
39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**
39740 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_3$

PLESTER **Basic Set for Ear Micro Surgery**

KARL STORZ — ENDOSKOPE



8-94₂

PLESTER **Basic Set for Ear Micro Surgery**

KARL STORZ — ENDOSKOPE

①		400500	HARTMANN **Nasal Speculum,** length 13 cm
②		213008	PLESTER **Elevator,** width 8 mm
③		212803	LEMPERT **Elevator,** width 3 mm
④		213500	**Tissue Forceps,** 1 x 2 teeth, length 11.5 cm
⑤		214000	WULLSTEIN **Forceps,** serrated, length 15 cm
⑥		213200	**Scissors,** curved, sharp/blunt, length 12 cm
⑦	2x	220211	PLESTER **Retractors,** 2 x 2 prongs
⑧		220411	**Same,** left side with full blade
⑨		220511	**Same,** right side with full blade
⑩		220700	WILLIGER **Retractor,** 4 prongs, sharp
⑪	2x	208000	**Surgical Handle,** Fig. 3, length 12.5 cm
⑫		208015	**Blade,** Fig. 15, non-sterile, package of 100
		208011	**Same,** Fig. 11 (not illustrated)
		208010	**Same,** Fig. 10 (not illustrated)
⑬		791202	**Scissors,** curved, pointed/blunt, length 14.5 cm
⑭		794014	ROCHESTER-PEAN **Artery Forceps**
⑮		516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
⑯		535012	HALSTEAD **"Mosquito" Artery Forceps,** straight
⑰	2x	535212	**Same,** curved
⑱	6x	796008	BACKHAUS **Towel Forceps,** length 8 cm
⑲		227600	GUILFORD-WRIGHT **Wire Cutter,** length 10 cm
⑳		227800	SCHUKNECHT **Wire Bending Die**
㉑	6x	223000	**TEFLON Instrument Guard,** for micro instruments
㉒		122005	HARTMANN **Ear Speculum,** outer diameter 5 mm
㉓		122006	**Same,** outer diameter 6 mm
㉔		122007	**Same,** outer diameter 7.5 mm
㉕		221100	HARTMANN **Ear Forceps,** extra delicate
㉖		221200	FISCH **Ear Forceps,** extra delicate, pointed
㉗		161000	HARTMANN **Ear Forceps,** serrated, working length 8 cm
㉘		221409	WULLSTEIN **Ear Forceps,** oval cupped jaws, 0.9 mm
㉙		162020	HARTMANN **Ear Forceps,** round cupped jaws, diameter 2 mm
㉚		222600	BELLUCCI **Scissors,** delicate standard model
㉛		222800	HOUSE-DIETER **Malleus Nipper**
㉜		227400	McGEE **Wire Crimper**
㉝	4x	204007	**Suction Tubes,** angular, outer diameter 0.7 mm
㉞	4x	204010	**Same,** outer diameter 1 mm
㉟	4x	204013	**Same,** outer diameter 1.3 mm
㊱	4x	204015	**Same,** outer diameter 1.5 mm
㊲	4x	204020	**Same,** outer diameter 2 mm
㊳		204001	**Suction Handle,** with cut-off hole, length 10 cm
㊴		204405	PLESTER **Suction Tube,** 5 Fr.
㊵		204407	**Same,** 7 Fr.
㊶		204409	**Same,** 9 Fr.
㊷		152301	**Ear Hook,** without ball end, size 1, length 15.5 cm
㊸		223803	**Seeker,** with ball end, angled 45°, size 3
㊹		153420	BUCK **Ear Curette,** sharp, size 00
㊺		153410	**Same,** size 0
㊻		224600	PLESTER **Hook,** to abrade the underside of the tympanic membrane
㊼	2x	224001	HOUSE **Curette,** large
㊽	2x	224002	**Same,** small
㊾		225008	HEERMANN **Hook,** retrograde
㊿		225405	**Pick 45°,** size 0.5 mm
(51)		223400	KLEY **Knife,** footplate
(52)	2x	224802	**Hooks,** footplate, 0.2 mm, length 16 cm
(53)	2x	224806	PLESTER **Hooks,** footplate, 0.6 mm, length 16 cm
(54)		226600	FISCH **Perforator**
(55)		224400	PLESTER **Guiding Fork**
(56)		225410	**Pick 45°,** size 1 mm
(57)	2x	223100	PLESTER **Round Knives,** vertical
(58)	2x	226820	**Round Knives 45°,** diameter 2 mm
(59)	2x	223300	PLESTER **Sickle Knife**
(60)	2x	224303	WULLSTEIN **Needles,** slightly curved, length 16.5 cm
(61)		225204	**Pick 90°,** size 0.4 mm, length 16 cm
(62)		225206	**Same,** size 0.6 mm
(63)		225208	**Same,** size 0.8 mm
(64)		225210	**Same,** size 1 mm
(65)		239600	**Rack for 8 Instruments,** 195 x 100 mm
		239212	**Magnet Instrument Rack,** 180 x 95 mm (not illustrated)
		239900	**Instrument Tray,** perforated, 195 x 100 mm (not illustrated)
		239200	**Magnet Instrument Rack,** 280 x 190 mm (not illustrated)
	2x	239000	**Metal Cases,** 300 x 200 x 50 mm, for 239200, 239212, 239600 and 239900 (not illustrated)
(66)		842216	**Bipolar Coagulating Forceps,** length 16 cm
		847000 E	**Bipolar High Frequency Cord,** for Bipolar Forceps 842216, to KARL STORZ AUTOCON® Coagulator and Erbe Coagulator (not illustrated)
(67)		280030	**Rack,** for 36 straight shaft burrs
(68)		261000	**Tungsten Carbide Shaft Burrs,** set of 15
(69)		262000	**Diamond Straight Shaft Burrs,** set of 15
(70)		265060	**Diamond Straight Shaft Burr,** oblong, cylindrical, diameter 6 mm
		40 7016 20-1	**UNIDRIVE® S III ENT SCB** (not illustrated)
(71)		**20** 7110 33	**High Performance EC Micro Motor II**
		20 711173	**Connecting Cable** (not illustrated)
(72)		252490	**INTRA Handpiece,** straight
(73)		252475	**Same,** angled
		280052	**Universal Spray,** for fast, smooth and thorough cleaning and lubrication, for INTRA drill handpieces and EC motors, package of 6 sprayers and 1 Spray Diffuser 280052 C – HAZARDOUS GOODS – UN 1950 (not illustrated)
(74)		810802	**Cup Medicine,** 25 ccm

Accessories recommended for containers (not illustrated):

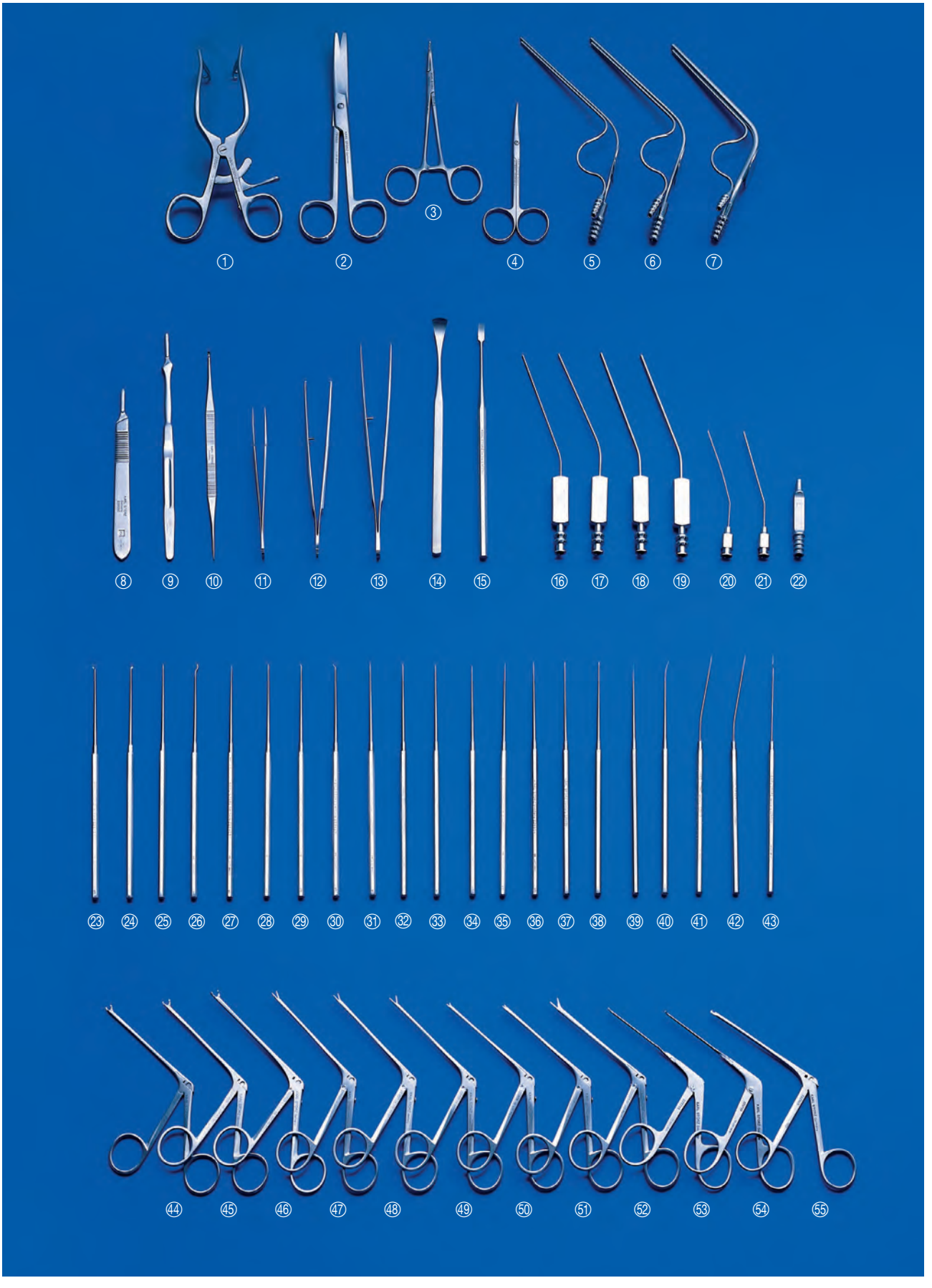
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

8-94$_2$

FISCH **Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy**

KARL STORZ — ENDOSKOPE



11-03

FISCH **Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy**

KARL STORZ — ENDOSKOPE

①	2x	220213	FISCH **Retractors,** 2 x 2 prongs, length 13 cm
②		792003	MAYO **Dissecting Scissors,** curved, length 15 cm
③		535312	HALSTEAD **"Mosquito" Artery Forceps,** micro-model, curved, length 12.5 cm
④		213410	FISCH **Scissors,** extra delicate, curved, sharp/sharp, length 10.5 cm
⑤		206300	FISCH **Suction and Irrigation Tube,** conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
⑥		206600	FISCH **Suction and Irrigation Tube,** cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
⑦		206700	**Same,** outer diameter suction tube 1.9 mm, irrigation tube outer diameter 1.9 mm
⑧		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
⑨		211804	FISCH **Dual Purpose Scalpel Handle,** elevator on one side, scalpel handle no. 7 on the other side, length 16 cm
⑩		224003	HOUSE **Curette,** medium
⑪		214500 F	**Jeweler Forceps,** fine, pointed, soft spring, length 11 cm
⑫		793303 F	**Forceps,** 1 x 2 teeth, fine size, soft spring, length 13 cm
⑬		214000 F	WULLSTEIN **Forceps,** soft spring, length 15 cm
⑭		213011	FISCH **Elevator,** sharp, width 10 mm, length 16 cm
⑮		477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
⑯		204729	FISCH **Suction Tube,** outer diameter 1.2 mm
⑰		204730	**Same,** outer diameter 1.5 mm
⑱		204732	**Same,** outer diameter 2 mm
⑲		204733	**Same,** outer diameter 2.2 mm
⑳		204352	**Suction Tube,** angular, outer diameter 0.7 mm, working length 7 cm
㉑		204354	**Same,** outer diameter 1 mm
㉒		204250	FISCH **Adaptor,** with cut-off hole, LUER cone
㉓		226101	FISCH **Micro Raspatory,** single curved to right, length 16 cm
㉔		226102	**Same,** curved to left
㉕		226810	**Round Knife 45°,** diameter 1 mm, length 16 cm
㉖		226301	FISCH **Tenotome,** extra fine, length 16 cm
㉗		225405	**Pick 45°,** size 0.5 mm, length 16 cm
㉘		225410	**Same,** size 1 mm
㉙		225415	**Same,** size 1.5 mm
㉚		225425	**Same,** size 2.5 mm
㉛		225205	**Pick 90°,** size 0.5 mm, length 16 cm
㉜		225210	**Same,** size 1 mm
㉝		225215	**Same,** size 1.5 mm
㉞		225220	**Same,** size 2 mm
㉟		226600	FISCH **Manual Perforator,** diameter 0.3 mm, length 16 cm
㊱		226604	**Same,** diameter 0.4 mm
㊲		226605	**Same,** diameter 0.5 mm
㊳		226606	**Same,** diameter 0.6 mm
㊴		224812	FISCH **Hook,** footplate, curved upwards 90°
㊵		224813	**Same,** curved downwards 90°
㊶		226514	FISCH **Measuring Caliper,** angled shaft, diameter 0.4 mm, length 16 cm
㊷		226516	**Same,** diameter 0.6 mm
㊸		226500	FISCH **Measuring Rod,** length 16 cm
㊹		221409	WULLSTEIN **Ear Forceps,** extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm
㊺		221406	**Same,** oval cupped jaws, 0.6 mm
㊻		162020	HARTMANN **Ear Forceps,** round cupped jaws, diameter 2 mm
㊼		221100	HARTMANN **Ear Forceps,** extra delicate, serrated, working length 8 cm
㊽		221201	FISCH **Ear Forceps,** extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
㊾		221110	FISCH-HARTMANN **Ear Forceps,** extra delicate, smooth, 1 x 4.5 mm, working length 8 cm
㊿		222606	FISCH-BELLUCCI **Micro Scissors,** extra delicate, blade length 3 mm, with thin sheath, working length 8 cm
(51)		222603	FISCH-BELLUCCI **Micro Scissors,** extra delicate, blade length 3 mm, working length 8 cm
(52)		222501	FISCH-BELLUCCI **Scissors,** extra fine, blade length 7 mm, working length 8 cm
(53)		222710	FISCH **Crurotomy Scissors,** curved to right, working length 7.5 cm
(54)		222720	**Same,** curved to left
(55)		222801	FISCH-DIETER **Malleus Nipper,** width 0.8 mm, working length 8 cm
		239728	**Metal Tray,** for 20 straight ear micro instruments with octagonal Handle, 275 x 175 x 36 mm (not illustrated)

11-03

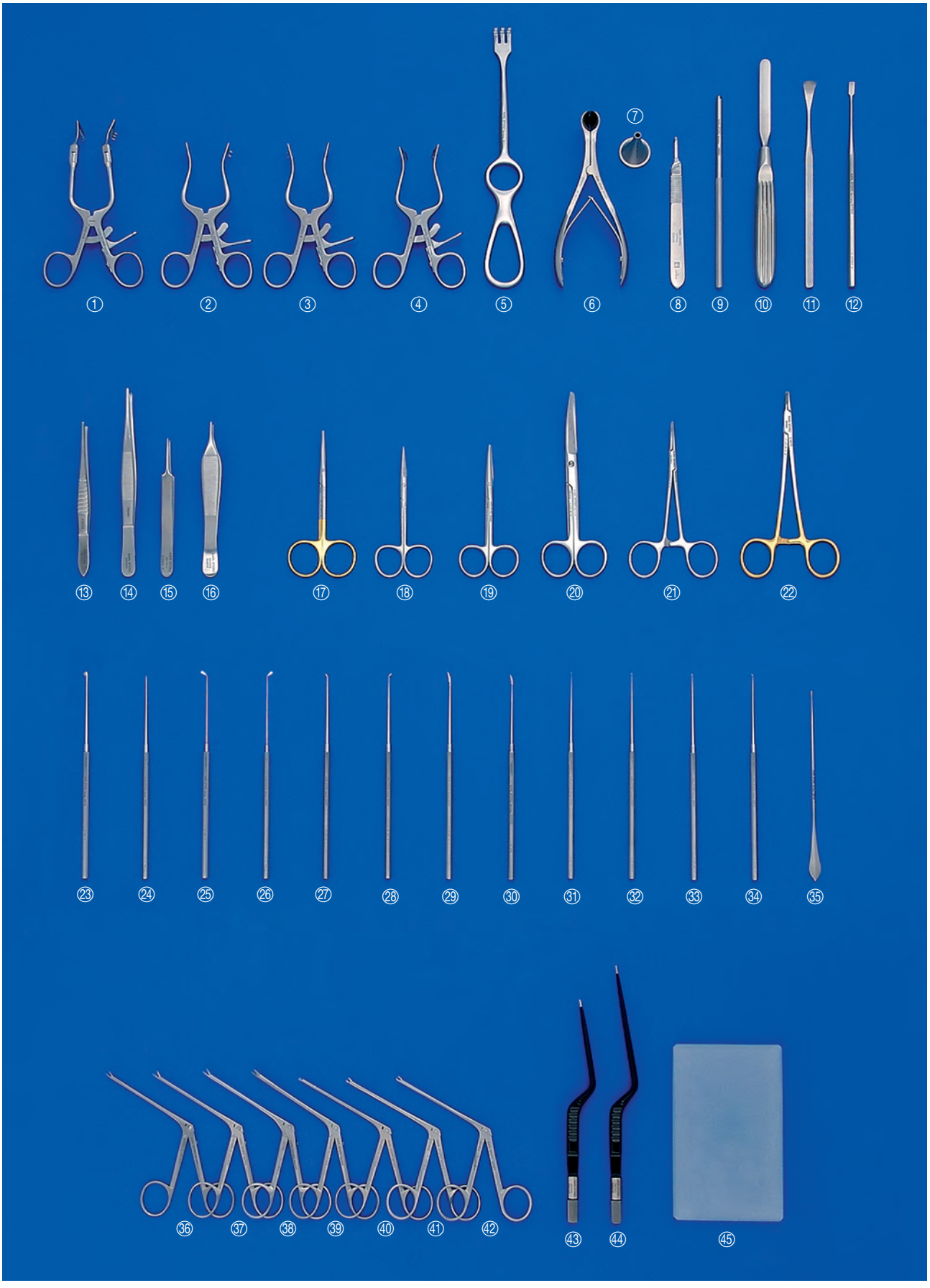
Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DALCHOW **Instrument Set for Pediatric Tympanoplasty**

KARL STORZ — ENDOSKOPE



3-07

DALCHOW **Instrument Set for Pediatric Tympanoplasty**

KARL STORZ — ENDOSKOPE

①	219714 K	DALCHOW **Retractor,** 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm
②	220421 K	**Same,** 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
③	220521 K	**Same,** 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
④	220211 K	**Same,** 2 x 2 prongs, length 11 cm
⑤	800503	VOLKMANN **Retractor,** blunt, 3 prongs, length 21 cm
⑥	400500	HARTMANN **Nasal Speculum,** length 13 cm
⑦	122005	HARTMANN **Ear Speculum,** outer diameter 5 mm
⑧	208000	**Surgical Handle,** Fig. 3, length 12.5 cm
⑨	496500	**Surgical Handle,** for miniature blades, round, length 15.5 cm
⑩	213008	PLESTER **Raspatory,** width 8 mm, length 18 cm
⑪	213011	FISCH **Raspatory,** width 10 mm, length 16 cm
⑫	477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
⑬	213500	**Tissue Forceps,** 1 x 2 teeth, length 11.5 cm
⑭	793401	**Tissue Forceps,** 1 x 2 teeth, standard width, length 14.5 cm
⑮	214500 F	**Jeweler Forceps,** fine, pointed, soft spring, length 11 cm
⑯	533012	ADSON **Dressing Forceps,** serrated, length 12 cm
⑰	512511	**Scissors,** with tungsten carbide inserts, blunt/blunt, curved, length 11 cm
⑱	511010	**Scissors,** extra delicate, straight, length 10 cm
⑲	513410	COTTLE **Scissors,** curved, length 10.5 cm
⑳	791202	**Dissecting Scissors,** curved, sharp/blunt, length 14.5 cm
㉑	535212	HALSTEAD **"Mosquito" Artery Forceps,** curved, length 12.5 cm
㉒	516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
㉓	223100	PLESTER **Round Knife,** vertical, standard size 3.5 x 2.5 mm, length 16 cm
㉔	226810	**Round Knife 45°,** diameter 1 mm, length 16 cm
㉕	226105	DALCHOW **Micro Raspatory,** single curved to right, width 1.5 mm, length 16 cm
㉖	226106	**Same,** single curved to left
㉗	226101	FISCH **Micro Raspatory,** single curved to right, length 16 cm
㉘	226102	**Same,** left
㉙	223300	PLESTER **Sickle Knife,** double-edged, standard model, slightly curved, length 16 cm
㉚	223302	PLESTER **Sickle Knife,** double-edged, medium curve, length 16 cm
㉛	225204	**Pick,** 90°, size 0.4 mm, length 16 cm
㉜	225206	**Same,** size 0.6 mm
㉝	225208	**Same,** size 0.8 mm
㉞	225210	**Same,** size 1 mm
㉟	797114	**Myrtle Leaf Probe,** diameter 1.5 mm, length 14.5 cm
㊱	221201	FISCH **Ear Forceps,** extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
㊲	221200	**Same,** pointed, 1 x 4.5 mm
㊳	221100	HARTMANN **Ear Forceps,** extra delicate, serrated, working length 8 cm
㊴	222600	BELLUCCI **Scissors,** delicate standard model, blade length 8 mm, working length 8 cm
㊵	222801	FISCH-DIETER **Malleus Nipper,** extra delicate, upbiting, width 0.8 mm, working length 8 cm
㊶	221406	WULLSTEIN **Ear Forceps,** extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm
㊷	221409	**Same,** 0.9 mm
㊸	844116	**Bipolar Coagulation Forceps,** insulated, bayonet-shaped, pointed, length 16 cm
㊹	844219	**Same,** blunt, width of tip 1 mm, length 19 cm
	847000 E	**Bipolar High Frequency Cord,** for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated)
㊺	231008	**Preparation Plate,** glass, 10 x 8 cm

Accessories recommended for containers (not illustrated):

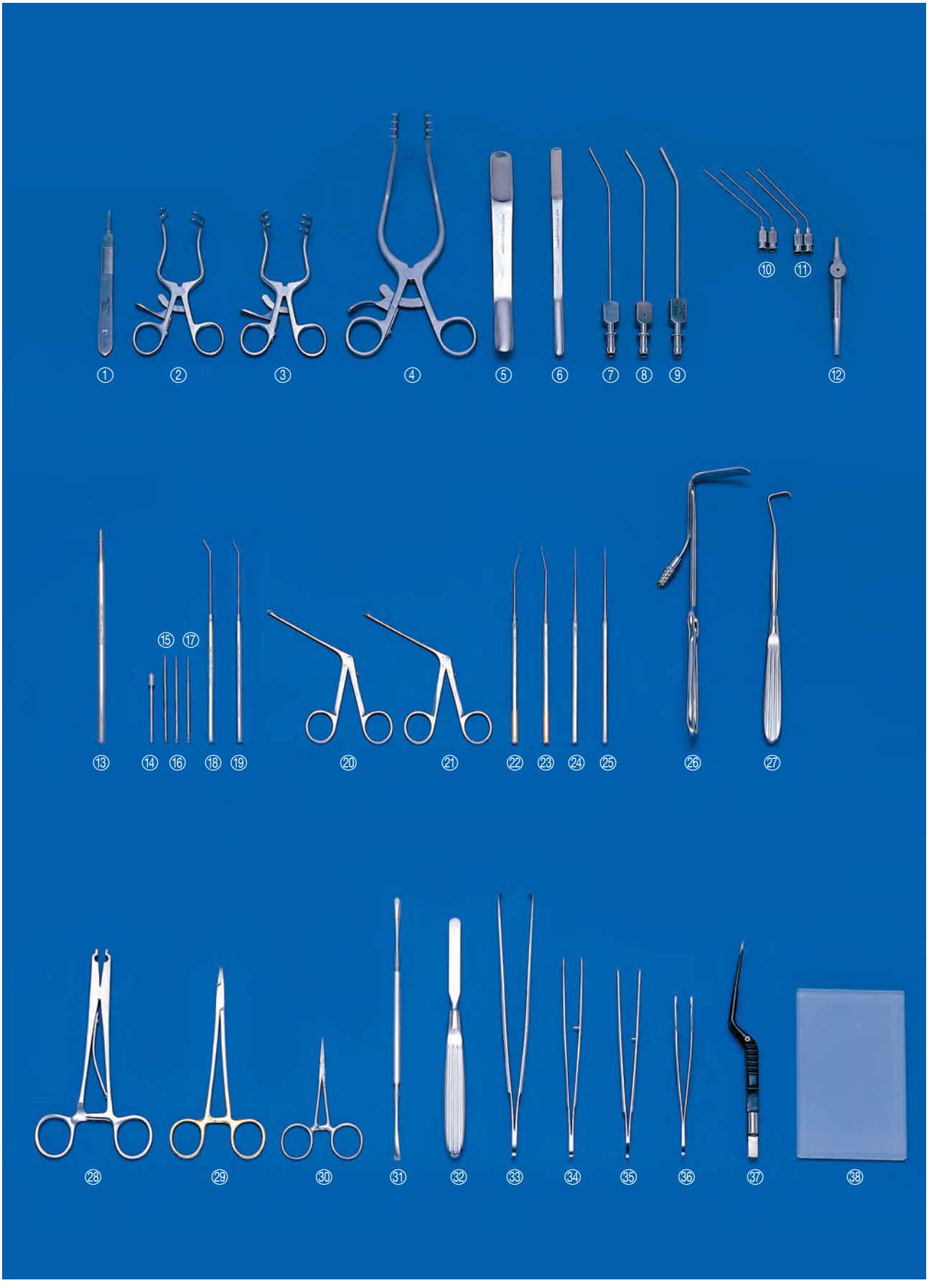
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39750 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

3-07$_3$

LENARZ **Supplement Set for Cochlear Implantation**

KARL STORZ — ENDOSKOPE



11-031

LENARZ **Supplement Set for Cochlear Implantation**

KARL STORZ — ENDOSKOPE

①	208000	**Surgical Handle,** Fig. 3, length 12.5 cm
②	220211	PLESTER **Retractor,** 2 x 2 prongs, length 11 cm
③	219511	WULLSTEIN **Retractor,** 3 x 3 prongs, length 11 cm
④	2x 214920	ANDERSON-ADSON **Retractor,** 4 x 4 prongs, sharp, curved, length 20 cm
⑤	662477	OLIVECRONA **Brain Spatula,** angled on both sides, concave, elastic, width 11 and 13 mm, length 18 cm
⑥	662476	**Same,** width 7 and 9 mm
⑦	204405	PLESTER **Suction Tube,** with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm
⑧	204407	**Same,** 7 Fr.
⑨	204409	**Same,** 9 Fr.
⑩	2x 204005	**Suction Tube,** angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm
⑪	2x 204007	**Same,** outer diameter 0.7 mm
⑫	204004	WULLSTEIN **Suction Handle,** with cut-off hole, LUER cone, length 10 cm, for Suction Tubes 204005 – 204025, 204305 – 204330
⑬	233110	**Octagonal Handle,** with LUER cone, straight, length 17 cm
⑭	262550	**Diamond Burr,** barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip for protection of the dura, with smooth shaft diameter 2.35 mm, length 44 mm
⑮	262506	**Diamond Burr,** shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm
⑯	262510	**Same,** diameter 1 mm
⑰	262514	**Same,** diameter 1.4 mm
⑱	223891	**Seeker,** extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm
⑲	223892	**Same,** with ball end diameter 1.5 mm
⑳	233212	**Forceps,** for insertion of cochlea electrodes, nucleus 24 contour, curved to left, working length 6 cm
㉑	233211	**Same,** curved to right
㉒	233105	**Micro Guiding Instrument,** for electrodes array, claw-shaped, tip angled downwards, length 16 cm
㉓	233106	**Same,** tip angled upwards
㉔	224802	**Footplate Hook,** 0.2 mm, length 16 cm
㉕	224806	PLESTER **Footplate Hook,** 0.6 mm, length 16 cm
㉖	801814	LENARZ **Retractor,** 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm
㉗	786500	SCHÖNBORN **Thymus Retractor,** width 5 mm, length 20.5 cm
㉘	799990	RANEY **Applying and Removing Forceps,** for scalp haemostasis clips, length 16 cm
	799995	RANEY **Scalp Haemostasis Clips,** package of 12 (not illustrated)
㉙	516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
㉚	536909	**Dissecting and Ligature Forceps,** straight, smooth jaws, length 9.5 cm
㉛	474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
㉜	213008	PLESTER **Raspatory,** width 8 mm, length 18 cm
㉝	662721	ALLIS **Forceps,** with fine teeth, length 20 cm
㉞	214000	WULLSTEIN **Forceps,** serrated, length 15 cm
㉟	792403	**Dressing Forceps,** narrow width, length 14.5 cm
㊱	533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㊲	844319	**Bipolar Coagulation Forceps,** insulated, bayonet-shaped, slender, tip 0.5 mm wide, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
	847000 E	**Bipolar High Frequency Cord,** for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated)
㊳	231008	**Preparation Plate,** glass, 10 x 8 cm

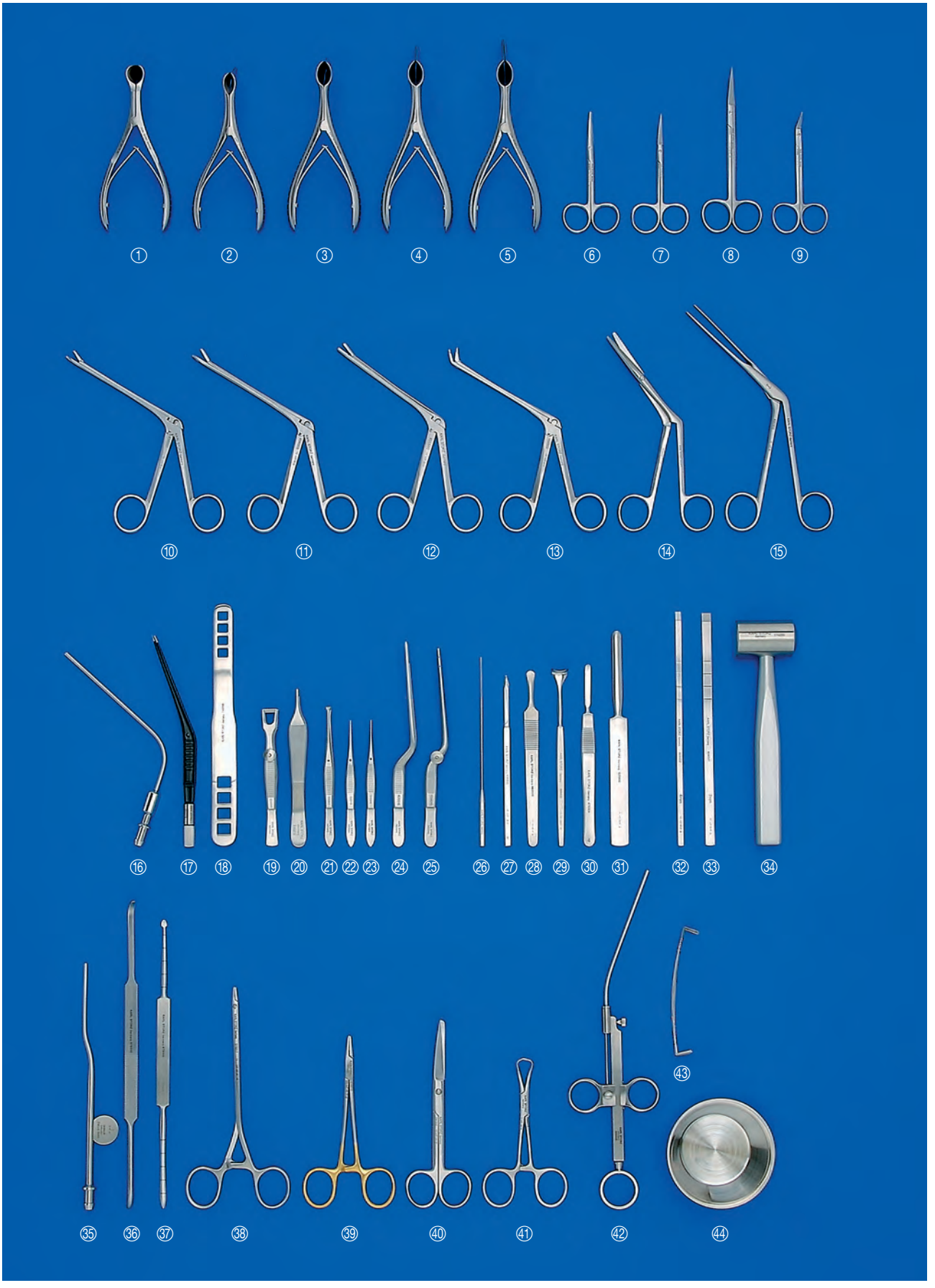
Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39740 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

11-03₂

Basic Set for Septum Surgery



8-942

Basic Set for Septum Surgery

①		400500	HARTMANN **Nasal Speculum,** for adults, length 13 cm
②		403655	COTTLE **Nasal Speculum,** blade length 55 mm, length 13 cm
③		403555	KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 55 mm, length 13.5 cm
④		403575	**Same,** blade length 75 mm
⑤		403590	**Same,** blade length 90 mm
⑥		513410	COTTLE **Scissors,** curved, length 10.5 cm
⑦		511210	**Scissors,** extra delicate, curved, length 10 cm
⑧		511414	JOSEPH **Scissors,** curved, length 14 cm
⑨		513200	WALTER **Scissors,** angled, length 10 cm
⑩		456001	BLAKESLEY **Nasal Forceps,** size 1
⑪		456003	**Same,** size 3
⑫		455500	TAKAHASHI **Nasal Forceps,** working length 9.5 cm
⑬		449002	HEYMANN **Nasal Scissors,** medium
⑭		456502	BLAKESLEY-WILDE **Nasal Forceps,** 45° upturned, size 2
⑮		430300	LUBET-BARBON **Nasal Dressing Forceps**
⑯		204809	FERGUSON **Suction Tube,** 9 Fr.
⑰		843116	**Bipolar Coagulating Forceps,** angular
		847000 E	**Bipolar High Frequency Cord,** for Coagulation Forceps 843116, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
⑱		740000	BRÜNINGS **Tongue Depressor,** length 19 cm
⑲		534500	COTTLE **Columella Clamp,** length 11 cm
⑳		533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㉑		530811	**Tissue Forceps,** 7 x 8 fine teeth, length 11 cm
㉒		530710	**Dressing Forceps,** delicate, length 10 cm
㉓		530910	**Same,** straight, 1 x 2 teeth
㉔		426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
㉕		534015	COTTLE **Lower Lateral Forceps,** bayonet-shaped
㉖	2x	417013	**Cotton Applicators,** triangular serrated, length 15 cm
㉗		496800	**Nasal Knife,** curved
㉘		493000	COTTLE **Nasal Knife,** rounded edge, length 14 cm
㉙		498400	COTTLE **Retractor**
㉚		478304	McKENTY **Raspatory,** width 4 mm
㉛		525800	**Elevator,** for reposition
㉜		484004	COTTLE **Chisel,** flat, width 4 mm
㉝		484007	**Same,** width 7 mm
㉞		174200	COTTLE **Metal Mallet**
㉟		479800	**Suction Raspatory,** with stylet
㊱		479200	COTTLE **Elevator,** double-ended
㊲		479000	MASING **Elevator,** double-ended
㊳		515017	**Needle Holder,** extra delicate, length 17 cm
㊴		516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
㊵		791202	**Scissors,** curved, sharp/blunt, length 14.5 cm
㊶	6x	796011	BACKHAUS **Towel Forceps,** length 11 cm
㊷		440000	KRAUSE **Nasal Snare,** length 25 cm
㊸		443500	**Nasal Snare Wire,** for 440000 – 441510, package of 25
㊹	2x	810810	**Cup Medicine,** 100 ccm

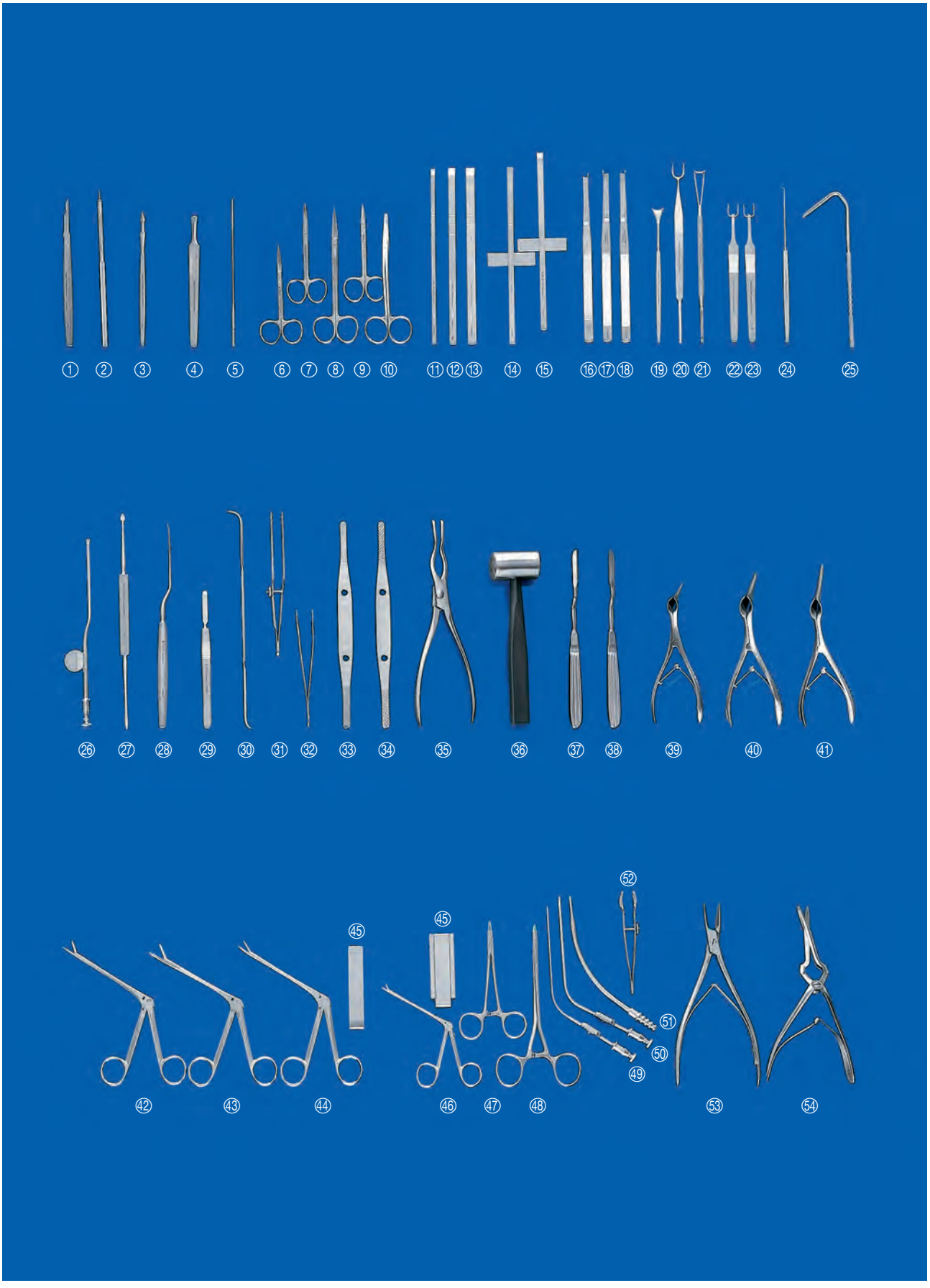
Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_3$

Basic Set for Rhinoplasty



8-942

Basic Set for Rhinoplasty

①		496400	MASING **Surgical Handle**
		208015	**Blade,** Fig. 15, non-sterile, package of 100 (not illustrated)
		208011	**Same,** Fig. 11 (not illustrated)
②		496500	**Surgical Handle,** for miniature blades, round, length 15.5 cm
		496764	**Miniature Blade,** Fig. 64, round, sterile, package of 24 (not illustrated)
③		496900	MASING **Nasal Knife**
④		493000	COTTLE **Nasal Knife,** rounded edge, length 14 cm
⑤	3x	417013	**Cotton Applicators,** triangular serrated, length 15 cm
⑥		511210	**Scissors,** extra delicate, curved, length 10 cm
⑦		513410	COTTLE **Scissors,** curved, length 10.5 cm
⑧		511414	JOSEPH **Scissors,** curved, length 14 cm
⑨		513200	WALTER **Scissors,** angled, length 10 cm
⑩		513700	FOMON **Dorsal Scissors,** angular, working length 6.5 cm
⑪		484004	COTTLE **Chisel,** flat, width 4 mm
⑫		484007	**Same,** width 7 mm
⑬		484009	**Same,** width 9 mm
⑭		484206	COTTLE **Crossbar Osteotome,** graduated, straight
⑮		484406	**Same,** curved
⑯		484800	MASING **Chisel,** straight
⑰		484700	**Same,** curved to left
⑱		484600	**Same,** curved to right
⑲		498400	COTTLE **Retractor**
⑳		505700	COTTLE **Retractor,** double-ended
㉑		505800	NEIVERT **Retractor,** double-ended, made of wire, length 18 cm
㉒		505100	COTTLE **Retractor,** 2 prongs, blunt prong on left
㉓		505000	**Same,** blunt prong on right
㉔		499101	**Hook,** one prong, sharp curve, length 16.5 cm
㉕		506400	AUFRICHT **Nasal Retractor**
㉖		479800	**Suction Elevator,** with stylet
㉗		479000	MASING **Elevator,** double-ended
㉘		478100	JOSEPH-MASING **Raspatory**
㉙		478305	McKENTY **Raspatory,** width 5 mm
㉚		479200	COTTLE **Elevator,** double-ended
㉛		534015	COTTLE **Lower Lateral Forceps,** bayonet-shaped
㉜		533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㉝		523600	**Nasal Rasp,** double-ended, fine
㉞		523700	**Nasal Rasp,** double-ended, coarse
㉟		528800	WALSHAM **Septum Straightening Forceps**
㊱		174200	COTTLE **Metal Mallet**
㊲		523000	JOSEPH **Saw,** bayonet-shaped, right
㊳		523100	**Same,** left
㊴		403655	COTTLE **Nasal Speculum,** blade length 55 mm, length 13 cm
㊵		403575	KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 75 mm, length 13.5 cm
㊶		403590	**Same,** blade length 90 mm
㊷		456001	BLAKESLEY **Nasal Forceps,** size 1
㊸		456003	**Same,** size 3
㊹		458000	WATSON-WILLIAMS **Nasal Forceps,** serrated
㊺		523900	COTTLE **Bone Crusher,** with clip
㊻		517000	MASING **Needle Holder,** ear forceps shape
㊼		516513	NEIVERT-MASING **Needle Holder,** length 13 cm
㊽		515017	**Needle Holder,** extra delicate, length 17 cm
㊾		529207	FRAZIER **Suction Tube,** outer diameter 7 Fr./2 mm, working length 10 cm, total length 17.5 cm
㊿		529209	**Same,** outer diameter 9 Fr./3 mm
(51)		529105	**Suction Tube,** curved, outer diameter 5 mm
(52)		534500	COTTLE **Columella Clamp,** length 11 cm
(53)		469000	KAZANIJAN **Nasal Hump Forceps,** length 20 cm
(54)		468000	JANSEN-MIDDLETON **Septum Forceps,** working length 10 cm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_3$

BERGHAUS **Instrument Set for Septo-Rhinoplasty**

KARL STORZ — ENDOSKOPE



10-08

BERGHAUS **Instrument Set for Septo-Rhinoplasty**

KARL STORZ — ENDOSKOPE

①	488002	COTTLE **Nasal Speculum,** extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm
②	488003	**Same,** blade length 55 mm
③	488004	**Same,** blade length 75 mm
④	488018	KILLIAN-CLAUS **Septum Chisel,** with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm
⑤	488010	RUBIN **Osteotome,** flat, straight, double-edged grinding, rounded corners, with finger grip for controlled osteotome guidance, special matt finish, width 10 mm, length 16.5 cm
⑥	488012	**Same,** width 12 mm
⑦	488014	**Same,** width 14 mm
⑧	488022	**Chisel,** with finger button, flat, special matt finish, width 2 mm, length 18 cm
⑨	488023	**Same,** width 3 mm
⑩	488024	**Same,** width 4 mm
⑪	488030	**Marking Instrument,** for nasal tip, with ball and half cup, straight, special matt finish, length 11 cm
⑫	488032	HEYMANN **Nasal Scissors,** medium size, special matt finish, working length 9.5 cm
⑬	488034	CRAIG **Septum Forceps,** straight, special matt finish, working length 9 cm
⑭	488041	BLAKESLEY **Nasal Forceps,** slender, straight, special matt finish, size 1, working length 11 cm
⑮	488038	RUBIN **Septum Morcelizer,** double action, straight, special matt finish, length 20 cm
⑯	488036	BECKER-CAPLAN **Septum Scissors,** double action, serrated, slender, special matt finish, working length 9.5 cm
⑰	488044	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, slender, special matt finish, length 16 cm
⑱	488045	ADSON-BROWN **Forceps,** micro-model, atraumatic, fine side grasping teeth, special matt finish, length 12 cm
⑲	488046	ADSON **Tissue Forceps,** atraumatic, fine side grasping teeth, special matt finish, length 15 cm
⑳	488047	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm
㉑	488049	KILNER **Scissors,** curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, special matt finish, length 13.5 cm
㉒	488048	KILNER **Scissors,** curved, sharp/sharp, special matt finish, length 13.5 cm
㉓	488050	KILNER **Scissors,** curved, flat end, blunt/blunt, special matt finish, length 15.5 cm
㉔	488054	AUFRICHT **Nasal Retractor,** with side protector, special matt finish, length 16.5 cm
㉕	488060	**Ala Double Hook,** with octagonal handle, with 2 sharp points, strongly curved, special matt finish, width 2 mm, length 16.5 cm
㉖	488056	KILNER **Ala Retractor,** two sharp points with button, special matt finish, width 10 mm, length 8.5 cm
㉗	488058	**Same,** width 13 mm
㉘	488084	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm
㉙	488085	**Same,** outer diameter 10 Fr.
㉚	488086	**Same,** outer diameter 12 Fr.
㉛	488065	BERGHAUS **Ala Guiding Set**
㉜	488070	JOSEPH **Elevator,** slightly curved, special matt finish, width 4 mm, length 17.5 cm
㉝	488071	**Same,** strongly curved, width 3.4 mm
㉞	488090	**Scalpel Handle,** No. 3, special matt finish, length 12.5 cm
㉟	488074	FREER **Elevator,** double-ended, sharp and blunt, special matt finish, length 20 cm
㊱	488078	**Nasal Rasp,** double-ended, coarse, special matt finish, length 21.5 cm
㊲	488076	AUFRICHT **Glabella Rasp,** double-ended, backward cutting, length 20.5 cm
㊳	488080	RYDER **Needle Holder**, tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm
㊴	439300	BERGHAUS **Metal Nasal Mirror**
	174200	COTTLE **Metal Mallet,** length 18 cm (not illustrated)
	231000	**Hone,** “ARKANSAS” oil stone, wedge-shaped, size 10 x 4 cm (not illustrated)

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

10-08

SIMMEN-BRINER **Special**
Nasal Instrument Set

KARL STORZ — ENDOSKOPE



11-03

SIMMEN-BRINER **Special**
Nasal Instrument Set

KARL STORZ — ENDOSKOPE

①		7230 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
②		723772	STAMMBERGER **Telescope Handle,** round
③		403835	COTTLE **Nasal Speculum,** with set screw, blade length 35 mm, length 13 cm
④		403855	**Same,** blade length 55 mm
⑤		403875	**Same,** blade length 75 mm
⑥		403390	KILLIAN-STRUYCKEN **Nasal Speculum,** with set screw, blade length 90 mm, length 15 cm
⑦		810506	**Septum Needle,** angular, LUER-Lock
⑧		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
⑨		208100	**Surgical Handle,** Fig. 4, length 13.5 cm
⑩		748000	**Surgical Handle,** Fig. 7, length 16.5 cm
⑪		474000	FREER **Elevator,** double-ended, length 20 cm
⑫		479000	MASING **Elevator,** double-ended, length 22.5 cm
⑬	2x	499001	KILNER-GILLIES **Hook,** one prong, small curve, length 17 cm
⑭		499210	JOSEPH **Double Hook,** sharp, width 10 mm, length 15 cm
⑮		791815	REYNOLDS **Dissecting Scissors,** curved, length 15 cm
⑯		511615	METZENBAUM-LAHEY **Scissors,** curved, length 15 cm
⑰	2x	533113	ADSON **Tissue Forceps,** micro-model, 1 x 2 teeth, length 12 cm
⑱		533112	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm
⑲		793301	**Tissue Forceps,** 1 x 2 teeth, standard width, length 13 cm
⑳		793403	**Tissue Forceps,** 1 x 2 teeth, narrow, length 14.5 cm
㉑	2x	533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㉒		792303	**Dressing Forceps,** narrow, length 13 cm
㉓		792301	**Dressing Forceps,** standard width, length 13 cm
㉔		534015	COTTLE **Lower Lateral Forceps,** with set screw, with teeth, length 15 cm
㉕		426620	GRÜNWALD **Nasal Dressing Forceps,** length 20 cm
㉖		455500	TAKAHASHI **Nasal Forceps,** working length 9.5 cm
㉗		456002	BLAKESLEY **Nasal Forceps,** size 2, working length 11 cm
㉘		456003	BLAKESLEY **Nasal Forceps,** size 3, working length 11 cm
㉙		449002	HEYMANN **Nasal Scissors,** working length 9.5 cm
㉚		488034	CRAIG **Septum Forceps,** working length 9 cm
㉛		204809	FERGUSON **Suction Tube,** 9 Fr.
㉜		204810	**Same,** 10 Fr.
㉝		204812	**Same,** 12 Fr.
㉞		204815	**Same,** 15 Fr.
㉟		479800 SB	**Suction Raspatory,** length 19.5 cm
㊱		486103 SB	**Osteotome,** flat, double-edged grinding, width 3 mm, length 19 cm
㊲		486104 SB	**Same,** width 4 mm
㊳		486107 SB	**Same,** width 7 mm
㊴		174200	COTTLE **Metal Mallet**
㊵		844219	**Bipolar Coagulating Forceps,** insulated, bayonet-shaped, blunt, tip 1 mm, length 19 cm
㊶		839330	BRINER **Bipolar Suction Cannula,** angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm
		847000 E	**Bipolar High Frequency Cord,** length 300 cm (not illustrated)
㊷		839312	SIMMEN **Insulated Suction Cannula,** distal with not insulated horn, outer diameter 3.5 mm
㊸		839312 A	**Same,** outer diameter 4 mm
㊹		839313	**Same,** outer diameter 4.5 mm
		26005 M	**Unipolar High Frequency Cord,** length 300 cm (not illustrated)
㊺		440000	KRAUSE **Nasal Snare,** length 25 cm
		443500	**Nasal Snare Wires,** diameter 0.3 mm, length 10 cm, package of 25 (not illustrated)
㊻		523900	COTTLE **Bone Crusher,** with clip
㊼	2x	794014	ROCHESTER-PEAN **Artery Forceps,** straight, length 14 cm
㊽	2x	535212	HALSTEAD **"Mosquito" Artery Forceps,** curved, length 12.5 cm
㊾	2x	794214	ROCHESTER-PEAN **Artery Forceps,** curved, length 14 cm
㊿	2x	535412	HALSTEAD **"Mosquito" Artery Forceps,** straight, 1 x 2 teeth, length 12.5 cm
(51)		516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
(52)		515117	**Same,** length 17 cm
(53)		791903	MAYO **Dissecting Scissors,** straight, length 15 cm
(54)		792003	**Same,** curved
(55)		748220	DUPLAY **Dressing and Sponge Holding Forceps,** length 21 cm
(56)	10x	796109	**Towel Forceps,** length 9.5 cm
		810805	**Cup Medicine,** 50 ccm, diameter 57 mm, height 47 mm (not illustrated)
		810810	**Cup Medicine,** 100 ccm, diameter 80 mm, height 30 mm (not illustrated)

Accessories recommended for containers (not illustrated):

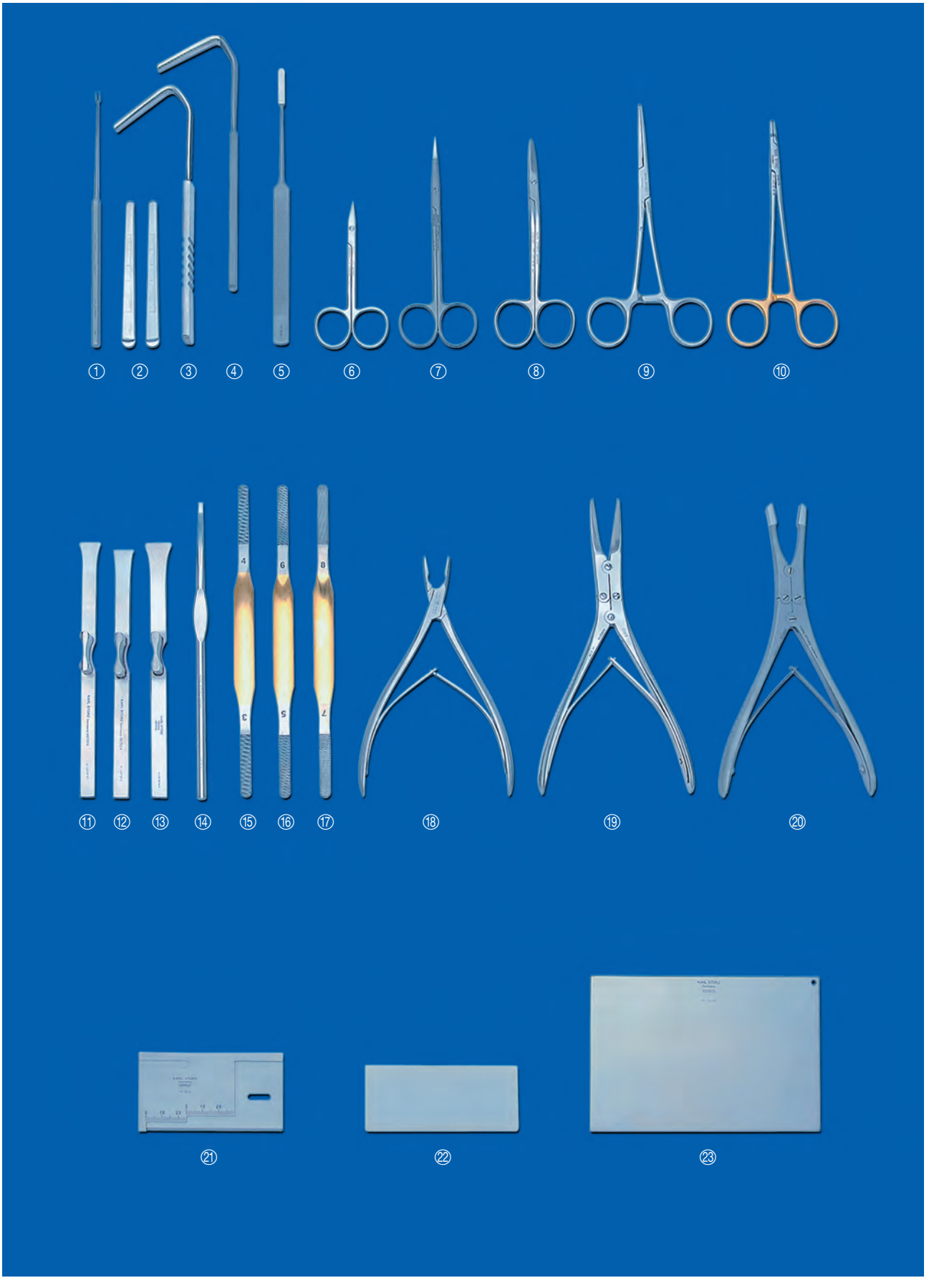
39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39751 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

11-03

SIMMEN-BRINER **Special Rhinoplasty Set**

KARL STORZ — ENDOSKOPE



11-03

SIMMEN-BRINER **Special Rhinoplasty Set**

KARL STORZ — ENDOSKOPE

①		488060	**Ala Double Hook,** with octagonal handle, with 2 sharp points, width 2 mm, length 16.5 cm
②	2x	477098	**Ala Dilator,** for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
③		506400	AUFRICHT **Nasal Retractor,** length 16.5 cm
④		488054	AUFRICHT **Nasal Retractor,** with side protector, length 16.5 cm
⑤		488070	JOSEPH **Raspatory,** slightly curved, width 4 mm, length 17.5 cm
⑥		489084	**Angular Scissors,** extra delicate, length 9.5 cm
⑦		488048	KILNER **Scissors,** curved, sharp/sharp, length 13.5 cm
⑧		513700	FOMON **Scissors,** curved, working length 6.5 cm
⑨		498822	AIACH **Cartilage Graft Forceps,** length 15 cm
⑩		516115	RYDER **Needle Holder,** extra delicate, length 15 cm
⑪		487012	RUBIN **Osteotome,** width of cut 12 mm, length 16.5 cm
⑫		487014	**Same,** width of cut 14 mm
⑬		487016	**Same,** width of cut 16 mm
⑭		486102 SB	**Osteotome,** width 2 mm, length 19 cm
⑮		523834	**Nasal Rasp,** tungsten carbide, Fig. 3 and 4
⑯		523856	**Same,** Fig. 5 and 6
⑰		523878	**Same,** Fig. 7 and 8
⑱		200600	LEMPERT **Rongeur,** straight, length 15.5 cm
⑲		469200	ROWLAND-MEYER **Nasal Hump Forceps,** double joint, curved blades, length 20 cm
⑳		488038	RUBIN **Septum Morcelizer,** straight, length 20 cm
㉑		498820	AIACH **Grid,** size 90 x 50 mm
㉒		231000	**Hone,** “ARKANSAS” oil stone, wedge-shaped, size 10 x 4 cm
㉓		523913	**Metal Tray,** size 10 x 15 cm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39740 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

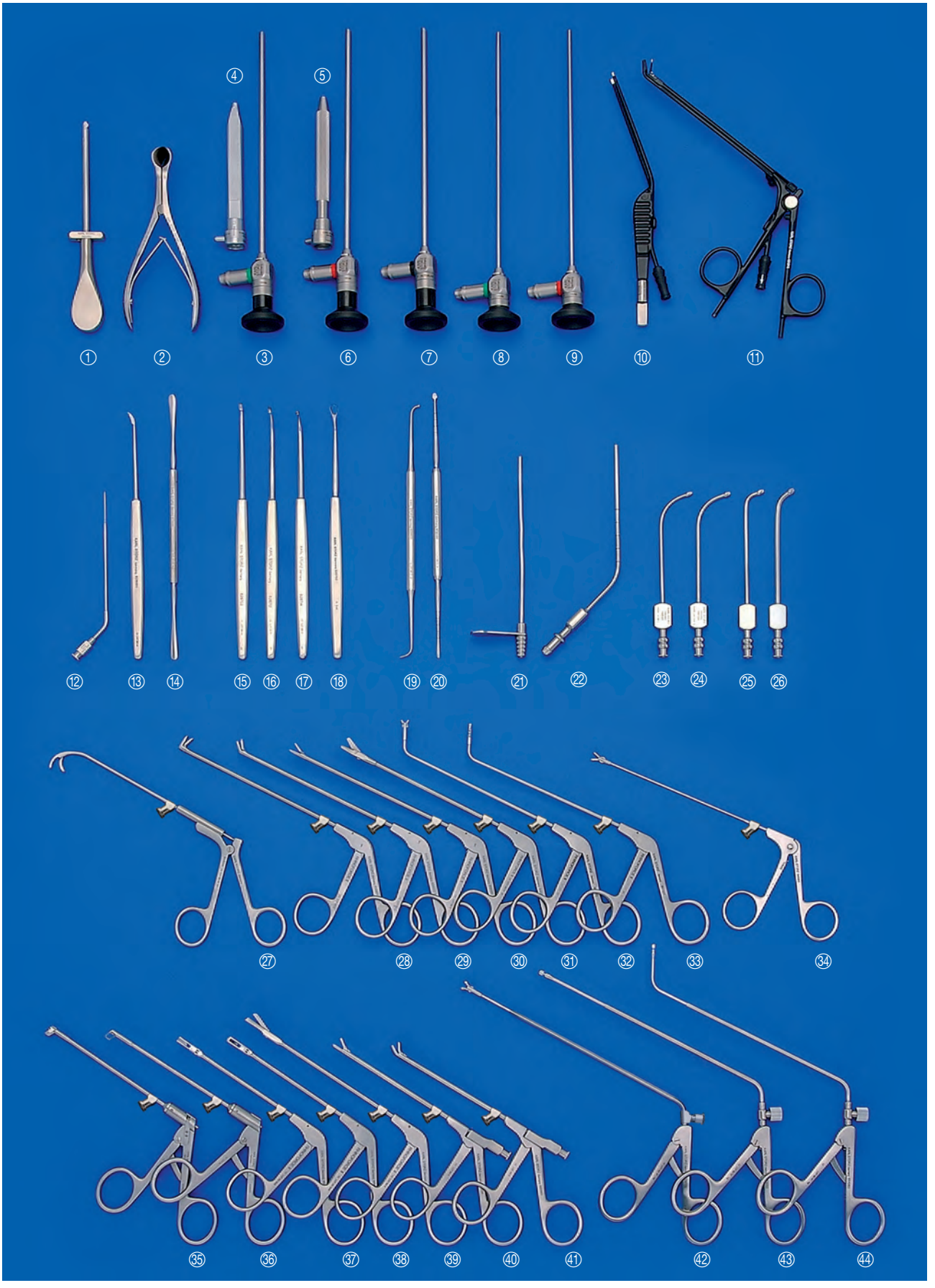
Further accessories for cleaning and sterilization see catalog HYGIENE

11-03

STAMMBERGER **Basic FESS Set**

for Endoscopic Diagnosis and Surgery of Nasal Sinuses and Anterior Skull Base (MESSERKLINGER Technique)

KARL STORZ — ENDOSKOPE



8-94₂

STAMMBERGER **Basic FESS Set**

for Endoscopic Diagnosis and Surgery of Nasal Sinuses and Anterior Skull Base (MESSERKLINGER Technique)

KARL STORZ — ENDOSKOPE

①		723005 A	**Trocar and Cannula for Sinoscopy,** fenestrated beak, outer diameter 5 mm
②		400500	HARTMANN **Nasal Speculum,** for adults, length 13 cm
③		7230 AA	**HOPKINS® II Straight Forward Telescope 0,** enlarged view, diameter 4 mm, length 18 cm
④		723770	STAMMBERGER **Handle,** flat
⑤		723772	**Same,** round
⑥		7230 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm
⑦		7230 FA	**HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm
⑧		7229 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 2.7 mm, length 18 cm
⑨		7229 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 2.7 mm, length 18 cm
	5x	723750 B	**Protection Tube for Telescopes** (not illustrated)
		15006 B	"ULTRA-STOP" **Antifog Solution,** 25 ml, pipette bottle (not illustrated)
		15006 C	**Same,** 30 ml, sterile pierce bottle (not illustrated)
⑩		843219	**Bipolar Coagulating Forceps,** with integrated suction channel for epistaxis, length 19 cm
		847000 E	**Bipolar High Frequency Cord,** length 300 cm (not illustrated)
⑪		461015	STAMMBERGER **Bipolar Suction Forceps,** 45° upturned, with suction channel, working length 12.5 cm
		847002 U	**Bipolar High Frequency Cord,** for connection to all current bipolar cables, length 40 cm (not illustrated)
⑫		810506	**Septum Needle,** angular, LUER-Lock
⑬		628001	**Sickle Knife,** pointed, length 19 cm
⑭		474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
⑮		628702	**Antrum Curette,** oblong, small, length 19 cm
⑯		628712	KUHN-BOLGER **Frontal Sinus Curette,** curved 55°
⑰		628714	**Same,** curved 90°
⑱		629703	**Antrum Curette,** forward cutting, small, length 19 cm
⑲		629820	**Probe,** double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
⑳		479100	COTTLE **Elevator,** length 20 cm
㉑		722925	**Suction Tube,** conical, malleable, outer diameter 2.5 mm
㉒		529309	FRAZIER **Suction Tube,** 9 Fr., working length 10 cm
㉓		586125	v. EICKEN **Antrum Cannula,** malleable, outer diameter 2.5 mm
㉔		586130	**Same,** outer diameter 3 mm
㉕		586231	v. EICKEN **Antrum Cannula,** outer diameter 3 mm
㉖		586241	**Same,** outer diameter 4 mm
㉗		653000	HEUWIESER **Antrum Grasping Forceps,** jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
㉘		456801 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 90° upturned, size 1, working length 13 cm
㉙		456501 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned, size 1, working length 13 cm
㉚		456001 B	BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight, size 1, working length 13 cm
㉛		449201	**RHINOFORCE® II Nasal Scissors,** straight, working length 13 cm
㉜		651010	STAMMBERGER **RHINOFORCE® II Forceps, cupped jaws,** vertical opening, 65° upturned, cupped jaws diameter 3 mm, working length 12 cm
㉝		651020	**Same,** horizontal opening
㉞		723033	**Biopsy and Grasping Forceps,** extra fine, with oval cupped jaws 3 x 5 mm, sheath diameter 1.5 mm, working length 14 cm
㉟		459052	STAMMBERGER **Antrum Punch,** left side downward and forward cutting
㊱		459051	**Same,** right side downward and forward cutting
㊲		459012	STAMMBERGER **RHINOFORCE® II Antrum Punch,** left side backward cutting, working length 10 cm
㊳		459011	**Same,** right side backward cutting
㊴		455010	STRUYCKEN **RHINOFORCE® II Nasal Cutting Forceps,** working length 13 cm
㊵		460001	STAMMBERGER **Suction Punch,** for biopsy and grasping, straight, with central suction channel, working length 10 cm
㊶		460501	**Same,** curved upwards
㊷		723029	**Biopsy and Grasping Forceps,** malleable, cupped jaws diameter 4 mm, working length 18 cm
㊸		651050	STAMMBERGER **Punch,** circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 4.5 mm, working length 18 cm
㊹		651060	STAMMBERGER **Punch,** circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, working length 17 cm

Accessories recommended for containers (not illustrated):

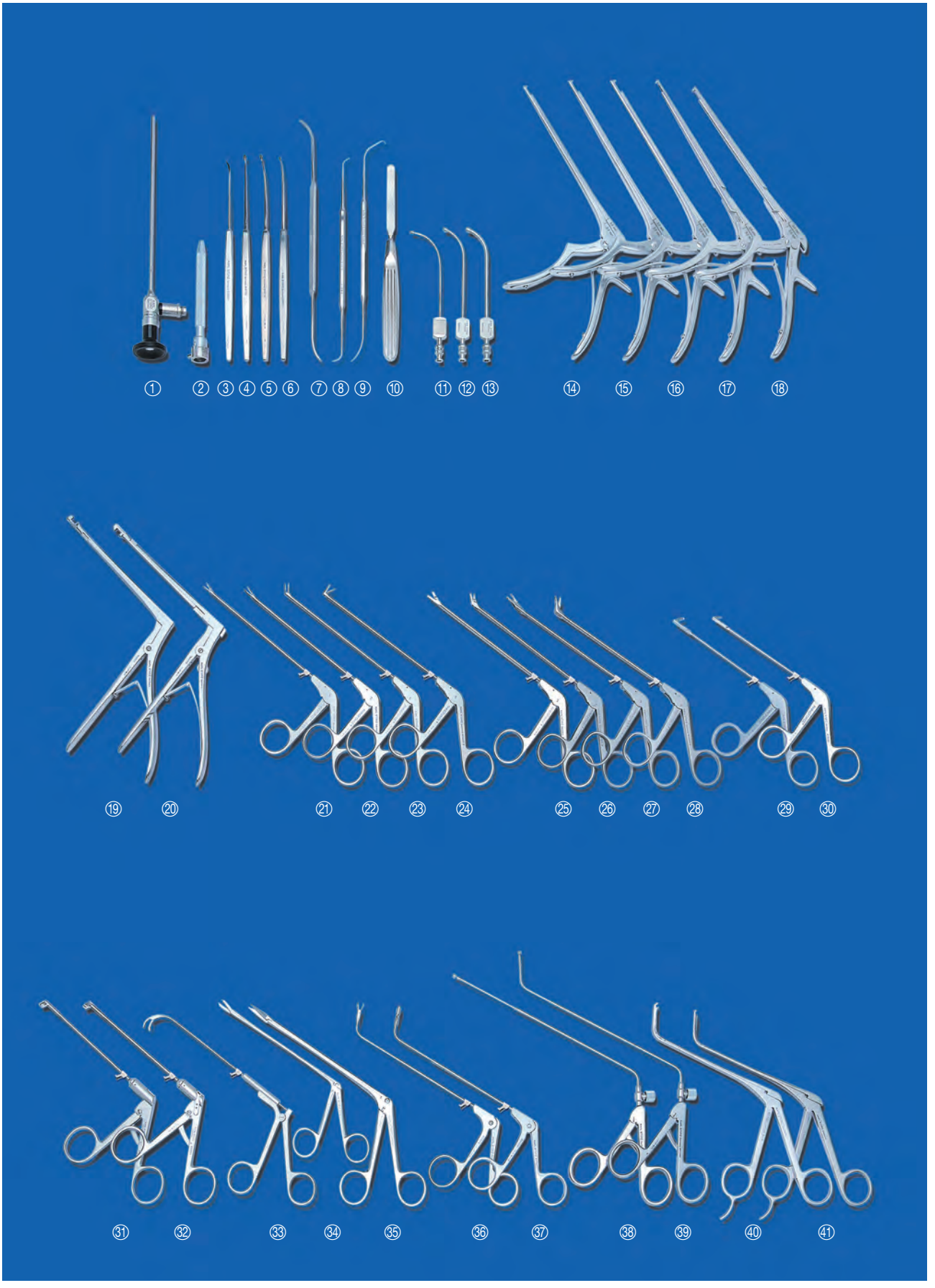
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_5$

SIMMEN-BRINER **Special**
Paranasal Sinus Set

KARL STORZ — ENDOSKOPE



11-03

SIMMEN-BRINER **Special**
Paranasal Sinus Set

KARL STORZ — ENDOSKOPE

①		7230 FLA	**HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** connection for fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black
②		723772	STAMMBERGER **Telescope Handle,** round
③		628001	**Sickle Knife,** pointed, length 19 cm
④		628702	**Antrum Curette,** length 19 cm
⑤		628712	KUHN-BOLGER **Frontal Sinus Curette,** curved 55°, length 19 cm
⑥		628714	**Same,** curved 90°
⑦		489010	**Elevator,** double-ended, strongly and slightly curved, length 22 cm
⑧		629820	**Probe,** double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
⑨		629824	CASTELNUOVO **Frontal Sinus Probe,** curved, double-ended, length 22 cm
⑩		213008	PLESTER **Elevator,** width 8 mm, length 18 cm
⑪	2x	586125	v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
⑫		586030	v. EICKEN **Antrum Cannula,** LUER-Lock, long curved, outer diameter 3 mm, length 12.5 cm
⑬		586040	**Same,** outer diameter 4 mm
⑭		662101	KERRISON **Bone Punch,** rigid, 90° upbiting, not through-cutting, size 1 mm, working length 17 cm
⑮		662102	**Same,** size 2 mm
⑯		662103	**Same,** size 3 mm
⑰		662112	**Same,** 90° downbiting, size 2 mm
⑱		662113	**Same,** 90° downbiting, size 3 mm
⑲		649001	HAJEK-KOFLER **Sphenoid Punch,** size 3.5 x 3.7 mm, working length 14 cm
⑳		649002	**Same,** 90° downbiting
㉑		456001 B	BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight, size 1, working length 13 cm
㉒		456002 B	**Same,** size 2
㉓		456501 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned, size 1, working length 13 cm
㉔		456801 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 90° upturned, size 1, working length 13 cm
㉕		451002 B	GRÜNWALD-HENKE **RHINOFORCE® II Nasal Forceps,** straight, through-cutting, tissue-sparing, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm
㉖		451502 B	**Same,** 45° upturned
㉗		452002 B	MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Forceps,** sharp, straight, through-cutting, extra delicate, tissue-sparing, 11.5 x 3.5 mm, size 2, working length 13 cm
㉘		452502 B	**Same,** 45° upturned
㉙		459010	STAMMBERGER **RHINOFORCE® II Antrum Punch,** upside backward cutting, working length 10 cm
㉚		459030	STAMMBERGER **RHINOFORCE® II Antrum Punch,** small pediatric size, upside backward cutting, working length 10 cm
㉛		459051	STAMMBERGER **Antrum Punch,** right side downward and forward cutting, working length 10 cm
㉜		459052	**Same,** left side downward and forward cutting
㉝		653000	HEUWIESER **Antrum Grasping Forceps,** jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
㉞		449251	ZÜRICH **Nasal Scissors,** straight, small model, cutting length 12 mm, working length 12 cm
㉟		449250	ZÜRICH **Nasal Scissors,** straight, large model, cutting length 18 mm, working length 14 cm
㊱		650212	**Forceps,** cupped jaws, vertical opening, 70° upturned, cupped jaws diameter 4 mm, working length 12 cm
㊲		650222	**Same,** horizontal opening
㊳		651055	STAMMBERGER **Punch,** circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, working length 18 cm
㊴		651060	STAMMBERGER **Punch,** circular cutting, 65° upturned, diameter 3.5 mm, working length 17 cm
㊵		651522	**Frontal Sinus Punch,** with link chain sheath 70° upturned, medium (standard size), jaws 3 x 3.5 mm, working length 13 cm
㊶		651521	**Same,** small, jaws 2.5 x 2 mm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

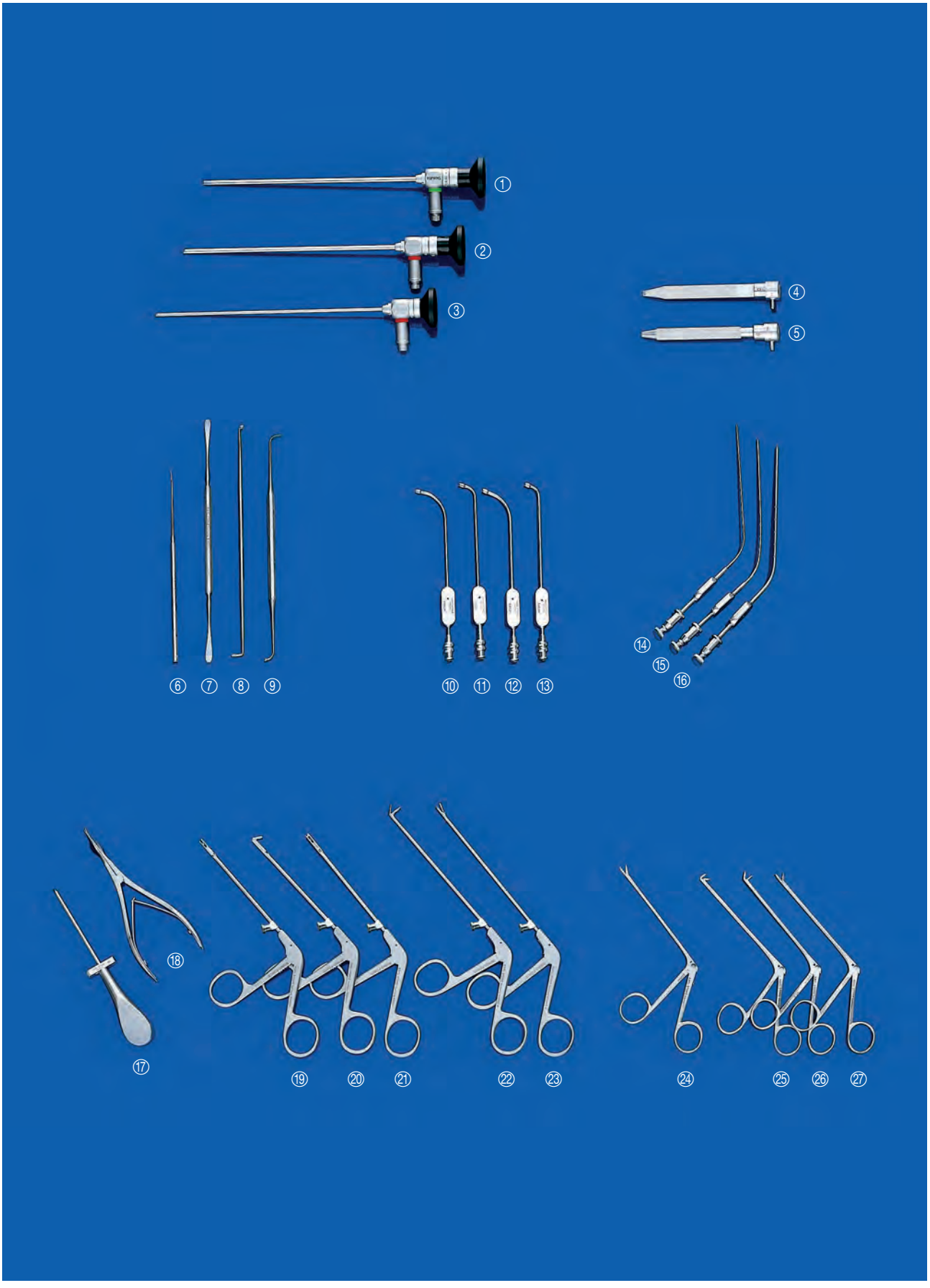
Further accessories for cleaning and sterilization see catalog HYGIENE

11-03

Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses and Anterior Skull Base (MESSERKLINGER Technique)

KARL STORZ — ENDOSKOPE



8-94₁

Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses and Anterior Skull Base (MESSERKLINGER Technique)

KARL STORZ — ENDOSKOPE

Pediatric Set recommended by Prof. WOLF and Prof. STAMMBERGER

①	7230 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
②	7230 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
③	7229 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
④	723770	STAMMBERGER **Handle,** flat, for use with HOPKINS® II Telescope 7230 AA
⑤	723772	**Same,** round, for use with HOPKINS® II Telescopes 7230 BA and 7229 BA
⑥	223300	PLESTER **Sickle Knife,** double-edged, standard model, slightly curved, length 16 cm
⑦	474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
⑧	628720	**Curette,** double-ended, oval, one side with short 45° curve, semisharp, diameter 2.2 mm, the other side with long 90° curve, sharp, diameter 2.7 mm, length 19 cm
⑨	629820	**Probe,** double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
⑩	586026	v. EICKEN **Antrum Cannula,** with cut-off hole, long curved, outer diameter 2.5 mm
⑪	586226	**Same,** short curved
⑫	586031	v. EICKEN **Antrum Cannula,** with cut-off hole, long curved, outer diameter 3 mm
⑬	586231	**Same,** short curved
⑭	529305	FRAZIER **Suction Tube,** with distance markings, 5 Fr.
⑮	529307	**Same,** 7 Fr.
⑯	529309	**Same,** 9 Fr.
⑰	723103 B	**Trocar for Sinoscopy,** oblique beak, outer diameter 3.3 mm, for use with HOPKINS® II Telescope 7229 BA
⑱	400600	HARTMANN **Nasal Speculum,** for children, length 13 cm
⑲	459032	STAMMBERGER **RHINOFORCE® II Antrum Punch,** small pediatric size, slender, left side backward cutting, with cleaning connector, working length 10 cm
⑳	459030	**Same,** upside backward cutting
㉑	459031	**Same,** right side backward cutting
㉒	456500 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned, size 0, with cleaning connector, working length 13 cm
㉓	456000 B	BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight, size 0, with cleaning connector, working length 13 cm
㉔	634826	BELLUCCI **Scissors,** straight, working length 12.5 cm
㉕	634825 B	STRÜMPEL **Forceps,** with oval, fenestrated cupped jaws, 90° upturned, working length 12.5 cm
㉖	634825 A	**Same,** 45° upturned
㉗	634824	**Same,** straight

Accessories recommended for containers (not illustrated):

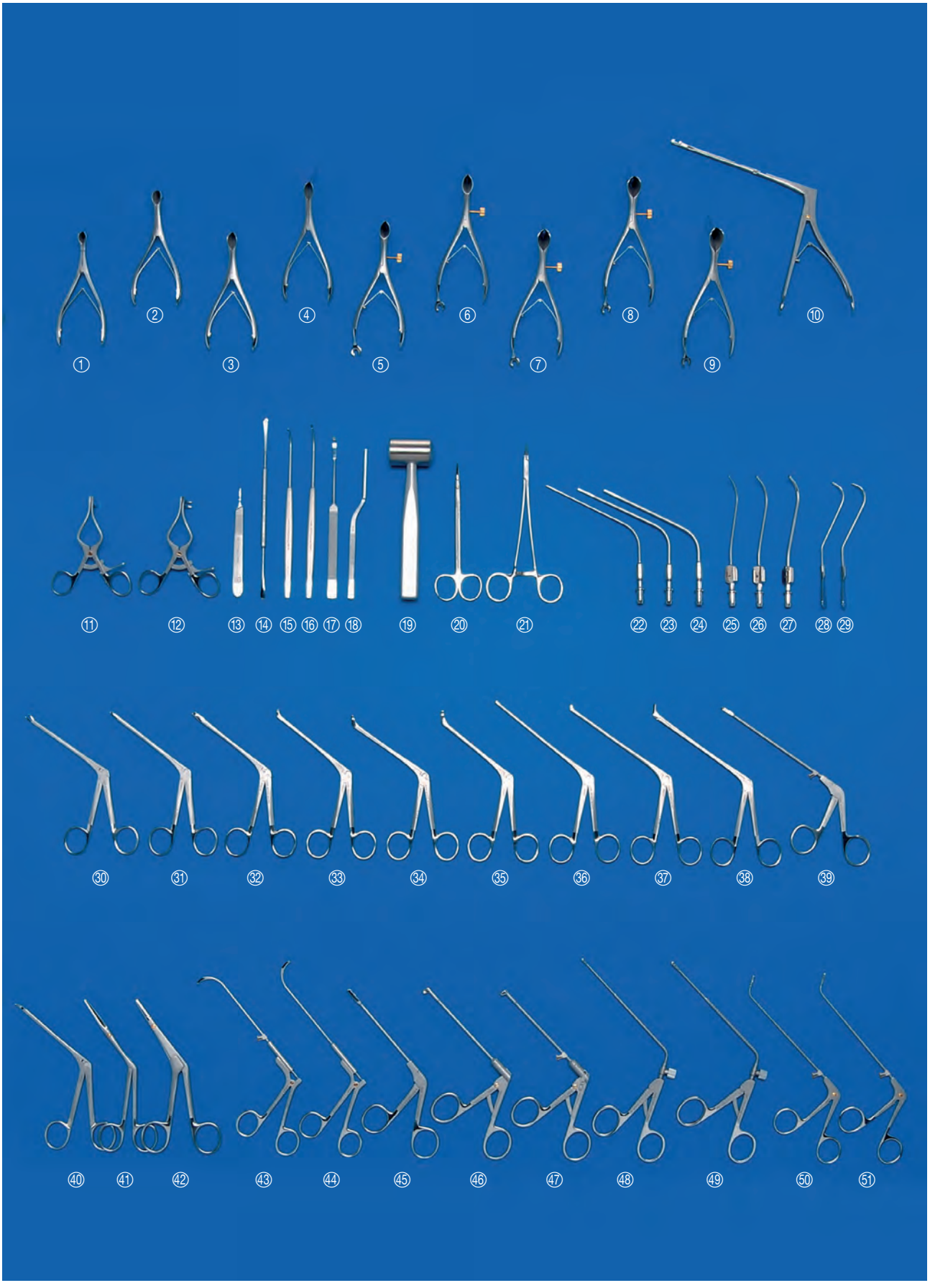
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39740 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_3$

BERGHAUS **Instrument Set for Microscopic Surgery of the Paranasal Sinuses**

KARL STORZ — ENDOSKOPE



10-08

BERGHAUS **Instrument Set for Microscopic Surgery of the Paranasal Sinuses**

KARL STORZ — ENDOSKOPE

①	488005	**Nasal Speculum,** for children, length 13 cm
②	488002	COTTLE **Nasal Speculum,** extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm
③	488003	**Same,** blade length 55 mm
④	488004	**Same,** blade length 75 mm
⑤	488001	KILLIAN-STRUYCKEN **Nasal Speculum,** with set screw and adaption for Flexible Tension Arm 723018, 75 mm, length 15 cm
⑥	488000	**Same,** 55 mm
⑦	488007	RUDERT **Nasal Speculum,** for adults, 15 cm, with set screw and adaption for Flexible Tension Arm 723018, left blade 65 mm long and 15 mm wide, right blade 50 mm long and with 3 mandrels
⑧	488006	**Same,** right blade 65 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels
⑨	488009	**Same,** left blade 75 mm long and 15 mm wide
	488008	**Same,** right blade 75 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels (not illustrated)
	723017	**Rotating Clamp** (not illustrated)
	723018	**Flexible Tension Arm** (not illustrated)
⑩	488160	HAJEK-KOFLER **Sphenoid Punch,** not through-cutting, reversible, size 3.2 mm x 4 mm, working length 17 cm
⑪	488102	PLESTER **Retractor,** 2 blades on left, full blade on right, length 11 cm
⑫	488101	**Same,** 2 prongs on right, full blade on left, length 11 cm
⑬	488090	**Scalpel Handle,** No. 3, special matt finish, length 12.5 cm
⑭	488074	FREER **Elevator,** double-ended, sharp and blunt, special matt finish, length 20 cm
⑮	488110	KUHN-BOLGER **Frontal Sinus Curette,** 90° curved, oval, forward cutting, length 19 cm
⑯	488111	**Same,** 55° curved
⑰	488071	JOSEPH **Elevator,** strongly curved, special matt finish, width 3.4 mm, length 17.5 cm
⑱	488018	KILLIAN-CLAUS **Septum Chisel,** with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm
⑲	174200	COTTLE **Metal Mallet,** length 18 cm
⑳	488050	KILNER **Scissors,** curved, flat end, blunt/blunt, special matt finish, length 15.5 cm
㉑	488080	RYDER **Needle Holder,** tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm
㉒	488084	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm
㉓	488085	**Same,** outer diameter 10 Fr.
㉔	488086	**Same,** outer diameter 12 Fr.
㉕	488117	**Suction Tube,** for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm
㉖	488118	**Same,** outer diameter 3 mm
㉗	488119	**Same,** outer diameter 4 mm
㉘	488114	RITTER **Frontal Sinus Bougie,** size 1, diameter 2.5 mm, length 14.5 cm
㉙	488115	**Same,** size 2, diameter 3 mm
㉚	488041	BLAKESLEY **Nasal Forceps,** slender, straight, special matt finish, size 1, working length 11 cm
㉛	488042	BLAKESLEY **Nasal Forceps,** straight, size 2, working length 11 cm
㉜	488043	**Same,** size 3
㉝	488141	BLAKESLEY-WILDE **Nasal Forceps,** 45° upturned, size 1, working length 11 cm
㉞	488142	**Same,** size 2
㉟	488143	**Same,** size 3
㊱	488137	**TAKAHASHI Nasal Forceps,** straight, delicate, oval cupped jaws, length 12.5 cm
㊲	488135	WATSON-WILLIAMS **Nasal Forceps,** 45° upturned, delicate, oval cupped jaws, length 12.5 cm
㊳	488139	**Nasal Cutting Forceps,** 60° upturned, through-cutting, reverse cutting, working length 12.5 cm
㊴	488152 B	GRÜNWALD-HENKE **RHINOFORCE® II Nasal Forceps,** straight, through-cutting, tissue-sparing, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm
㊵	488133	**Nasal Scissors,** light model, length of blades 10 mm, serrated, curved to left, working length 11 cm
	488132	**Same,** curved to right (not illustrated)
㊶	488032	HEYMANN **Nasal Scissors,** medium size, special matt finish, working length 9.5 cm
㊷	488034	CRAIG **Septum Forceps,** straight, special matt finish, working length 9 cm
㊸	488180	HEUWIESER **Antrum Forceps,** fixed jaw curved 90°, movable jaw backward opening, working length 10 cm
㊹	488181	HEUWIESER **Grasping Forceps,** for paranasal sinuses, fixed jaws, curved upwards 90°, movable jaw opening backwards up to 120°, working length 10 cm
㊺	488170	STAMMBERGER **RHINOFORCE® II Antrum Punch,** upside backward cutting, working length 10 cm
㊻	488174	STAMMBERGER **Antrum Punch,** right side downward and forward cutting, working length 10 cm
㊼	488175	**Same,** left side downward and forward cutting
㊽	488190	STAMMBERGER **Punch,** circular cutting, diameter 3.5 mm, working length 13.5 cm
㊾	488192	**Same,** diameter 4.5 mm
㊿	488197	KUHN-BOLGER **Forceps,** cupped jaws, horizontal opening, 55° upturned, jaws diameter 3 mm, working length 12 cm
(51)	488195	**Same,** vertical opening

Accessories recommended for containers (not illustrated):

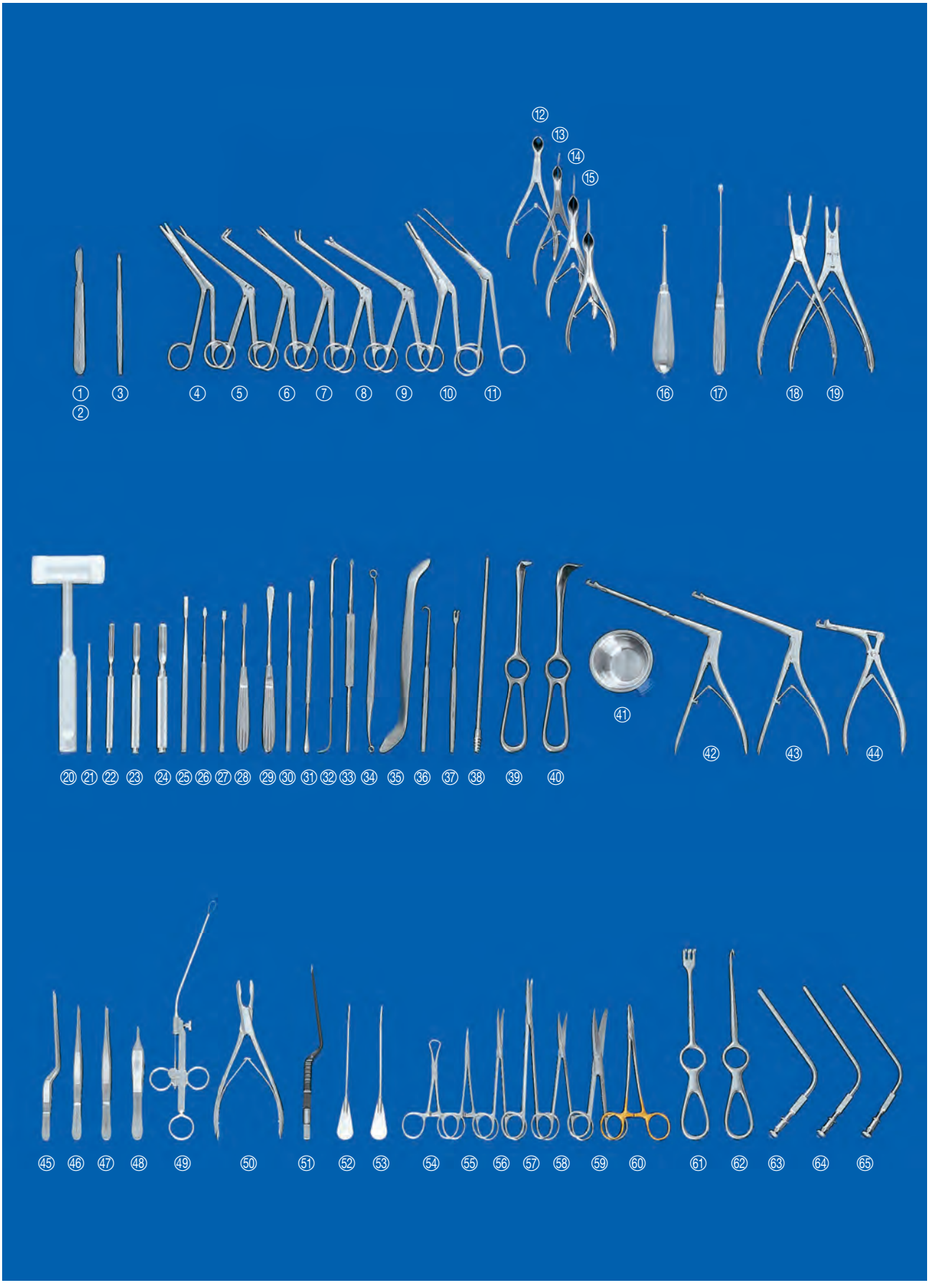
39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39752 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

10-08

CALDWELL-LUC **Basic Set for Paranasal Sinus Surgery**

KARL STORZ — ENDOSKOPE



8-942

CALDWELL-LUC **Basic Set for Paranasal Sinus Surgery**

KARL STORZ — ENDOSKOPE

①		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
②		208010	**Blade,** Fig. 10, non-sterile, package of 100
		208011	**Same,** Fig. 11 (not illustrated)
		208015	**Same,** Fig. 15 (not illustrated)
③		496800	**Nasal Knife,** curved, length 13.5 cm
④		449002	HEYMANN **Nasal Scissors,** medium
⑤		456002	BLAKESLEY **Nasal Forceps,** straight, size 2
⑥		456803	BLAKESLEY-WILDE **Nasal Forceps,** 90° upturned, size 3
⑦		456003	BLAKESLEY **Nasal Forceps,** straight, size 3
⑧		456502	BLAKESLEY-WILDE **Nasal Forceps,** 45° upturned, size 2
⑨		450001	HARTMANN **Nasal Cutting Forceps,** round, size 1
⑩		466000	CRAIG **Septum Forceps,** straight
⑪		430300	LUBET-BARBON **Nasal Dressing Forceps**
⑫		400500	HARTMANN **Nasal Speculum,** length 13 cm
⑬		403655	COTTLE **Nasal Speculum,** blade length 55 mm, length 13 cm
⑭		403575	KILLIAN-STRUYCKEN **Nasal Speculum,** blade length 75 mm, length 13.5 cm
⑮		403590	**Same,** blade length 90 mm
⑯		175802	SPRATT **Mastoid Curette,** size 2
⑰		628501	HALLE **Antrum Curette,** malleable, size 1
⑱		201000	JANSEN **Rongeur,** bayonet-shaped
⑲		201200	LUER-RUSKIN **Rongeur**
⑳		174800	**Metal Mallet,** with plastic surfaces
㉑		173202	PASSOW **Chisel,** hemostatic, 2 x 2 mm
㉒		170505	TRAUTMANN **Mastoid Gauge,** width 5 mm
㉓		170507	**Same,** width 7 mm
㉔		170509	**Same,** width 9 mm
㉕		634100	WEST **Chisel,** width 4 mm
㉖		212000	WULLSTEIN **Elevator**
㉗		477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
㉘		478000	JOSEPH **Elevator**
㉙		479408	COTTLE **Elevator,** width 8 mm
㉚		477004	HALLE **Elevator,** width 4 mm
㉛		474000	FREER **Elevator,** double-ended
㉜		479200	COTTLE **Elevator,** double-ended
㉝		479000	MASING **Elevator,** double-ended
㉞		629500	FAULKNER **Antrum Curette**
㉟		635000	**Orbital Retractor**
㊱	2x	786001	**Retractor,** sharp, one prong
㊲	2x	786002	**Same,** two prongs
㊳	2x	203930	**Suction Tube,** malleable, LUER, outer diameter 3 mm, length 22.5 cm
㊴	2x	801800	LANGENBECK **Retractors,** 33 x 14 mm
㊵	2x	801600	**Same,** 60 x 20 mm
㊶	2x	810806	**Cup Medicine,** 60 ccm
		810810	**Same,** 100 ccm (not illustrated)
㊷		648500	HAJEK-KOFLER **Sphenoid Punch,** reversible
㊸		649001	**HAJEK-KOFLER Sphenoid Punch,** rigid, 90° upbiting, not through-cutting, size 3.5 x 3.7 mm, working length 14 cm
㊹		201503	CITELLI **Rongeur,** size 3
㊺	2x	426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
㊻	2x	792402	**Dressing Forceps,** length 14.5 cm
㊼	2x	793402	**Tissue Forceps,** 1 x 2 teeth, length 14.5 cm
㊽		533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth
㊾		440000	KRAUSE **Nasal Snare,** length 25 cm
		443500	Package of **Nasal Snare Wires,** for 440000, standard size, diameter 0.3 mm, length 10 cm, package of 25 (not illustrated)
㊿		200800	LUER-HARTMANN **Rongeur**
(51)		844219	**Bipolar Coagulating Forceps**
		847000 E	**Bipolar High Frequency Cord** for 844219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
(52)		641525	RITTER **Frontal Sinus Bougie,** size 1
(53)		641530	**Same,** size 2
(54)	8x	796011	BACKHAUS **Towel Forceps,** length 11 cm
(55)	6x	535212	HALSTEAD **"Mosquito" Artery Forceps,** curved
(56)		511615	METZENBAUM-LAHEY **Scissors,** curved, extra slender
(57)		752918	METZENBAUM **Scissors,** curved, length 18 cm
(58)		511414	JOSEPH **Scissors,** curved, length 14 cm
(59)		791202	**Scissors,** curved, pointed/blunt, length 14.5 cm
(60)	2x	516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
(61)	2x	800403	VOLKMANN **Retractors,** sharp, 3 prongs, length 21 cm
(62)		800401	**Same,** 1 prong
(63)		204815	FERGUSON **Suction Tube,** 15 Fr.
(64)		204812	**Same,** 12 Fr.
(65)		204810	**Same,** 10 Fr.

Accessories recommended for containers (not illustrated):

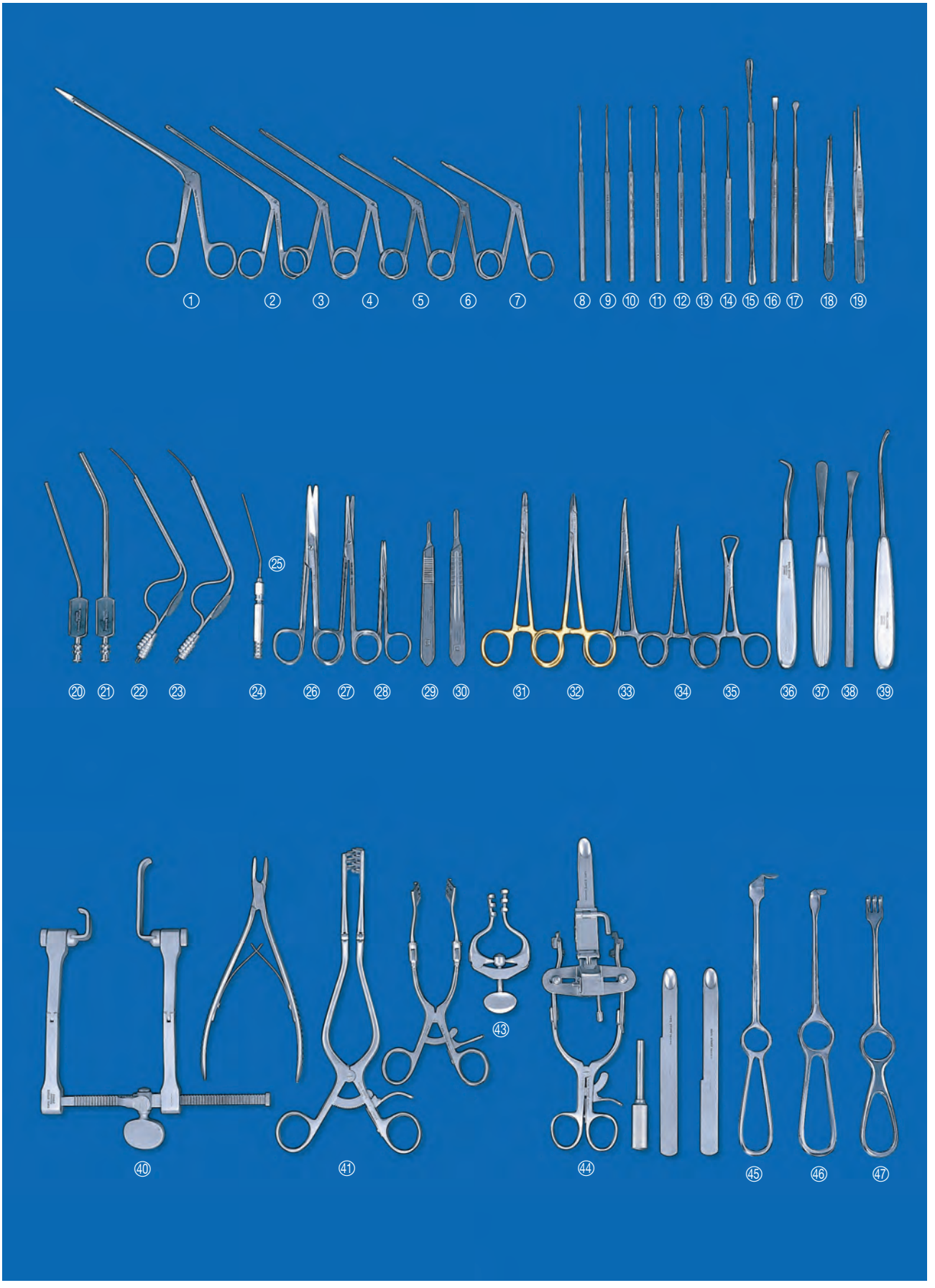
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39752 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

8-94$_3$

FISCH **Special Set for Lateral Skull Base Surgery**

KARL STORZ — ENDOSKOPE



11-03

FISCH **Special Set for Lateral Skull Base Surgery**

KARL STORZ — ENDOSKOPE

①	449250	**Nasal Scissors,** ZÜRICH model, straight, working length 14 cm
②	221454	FISCH **Ear Forceps,** round cupped jaws, diameter 3 mm, working length 12.5 cm
③	634822	HARTMANN **Forceps,** with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
④	222650	BELLUCCI **Scissors,** delicate, straight, working length 12.5 cm
⑤	162020	HARTMANN **Ear Forceps,** round cupped jaws, diameter 2 mm
⑥	222801	FISCH-DIETER **Malleus Nipper,** width 0.8 mm, working length 8 cm
⑦	222501	FISCH-BELLUCCI **Scissors,** extra delicate, blade length 7 mm, working length 8 cm
⑧	225415	**Hook,** 45°, 1.5 mm, length 16 cm
⑨	226301	FISCH **Tenotome**, sickle-shaped, extra delicate, length 16 cm
⑩	226102	FISCH **Micro Raspatory,** single curved to left, length 16 cm
⑪	226101	**Same,** single curve, to right
⑫	226001	**Same,** double curve, to right
⑬	226002	**Same,** double curve, to left
⑭	499101	**Hook,** one prong, sharp curve, length 16.5 cm
⑮	474000	FREER **Elevator,** double-ended, semisharp and blunt, length 20 cm
⑯	477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
⑰	213005	FISCH **Dura Elevator**
⑱	793303 F	**Tissue Forceps,** toothed, 1 x 2 teeth, slender, soft spring, length 13 cm
⑲	214000 F	WULLSTEIN **Forceps,** serrated, length 15 cm
⑳	204735	FISCH **Suction Tube,** outer diameter 3 mm
㉑	204738	**Same,** outer diameter 5 mm
㉒	206600	FISCH **Suction and Irrigation Tube,** cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
㉓	206700	**Same,** suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm
㉔	204200	FISCH **Adaptor,** for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm
㉕	204354	**Suction Tube,** angular, outer diameter 1 mm, working length 7 cm
㉖	792026	MAYO-LEXER **Scissors,** tungsten carbide, length 16 cm
㉗	511514	METZENBAUM **Scissors,** curved, length 14 cm
㉘	213410	FISCH **Scissors,** extra delicate, curved, sharp/sharp, length 10.5 cm
㉙	208000	**Surgical Handle,** Fig. 3, length 12.5 cm
㉚	208100	**Surgical Handle,** Fig. 4, length 13.5 cm
㉛	516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
㉜	516115	RYDER **Needle Holder,** extra delicate, length 15 cm
㉝	536214	**Artery Forceps,** PROVIDENCE model, delicate, curved, length 14 cm
㉞	535312	HALSTEAD **"Mosquito" Artery Forceps,** micro-model, curved, length 12.5 cm
㉟	796011	BACKHAUS **Towel Forceps,** length 11 cm
㊱	213015	FISCH **Periosteal Elevator,** sharp, angled, width 11 mm, length 21 cm
㊲	169027	JANSEN **Elevator,** width 9 mm, length 17.5 cm
㊳	213011	FISCH **Elevator,** sharp, width 10 mm, length 16 cm
㊴	800005	FISCH **Aneurysm Needle,** length 20 cm
㊵	219900	FISCH **Glomus Retractor,** size 21 x 16 cm
㊶	219724	**Retractor,** articulated, 3 x 4 prongs, sharp, length 24 cm
㊷	219717	FISCH **Retractor,** semisharp, length 17 cm
㊸	215001	JANSEN **Retractor,** blunt
㊹	219800	FISCH **Dura Retractor,** length 18 cm
㊺	801708	KOCHER-LANGENBECK **Retractor,** size 65 x 14 mm, length 21.5 cm
㊻	801702	**Same,** 35 x 8 mm
㊼	800403	VOLKMANN **Retractor,** sharp, 3 prongs, length 21 cm

Accessories recommended for containers (not illustrated):

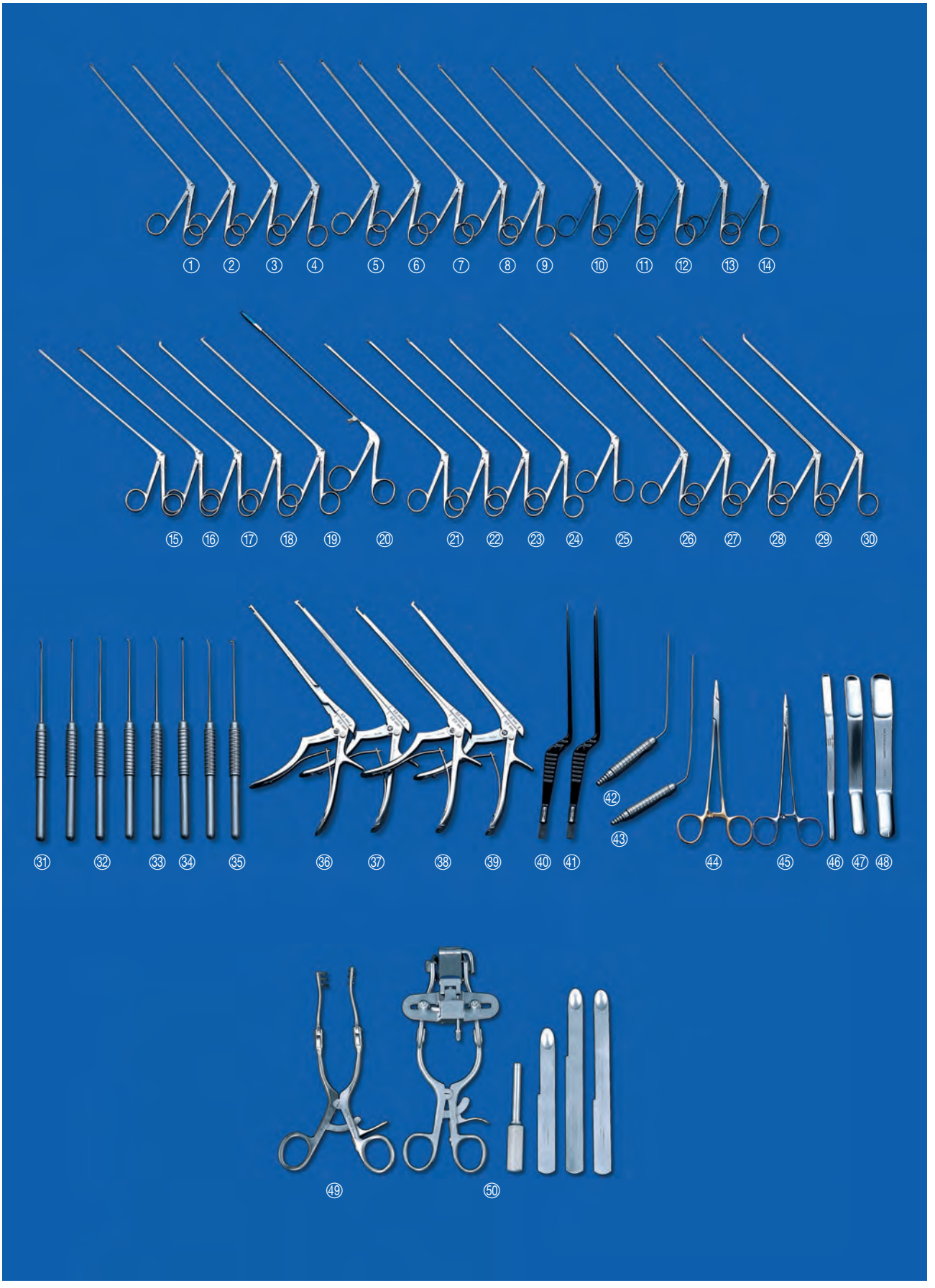
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

11-03

DRAF **Special Set for Lateral Skull Base Surgery**

KARL STORZ — ENDOSKOPE



11-03

DRAF **Special Set for Lateral Skull Base Surgery**

KARL STORZ — ENDOSKOPE

①	662202	**Forceps,** straight, extra delicate, oval cupped jaws, width 0.6 mm, working length 15 cm
②	662203	**Same,** curved to right
③	662204	**Same,** curved to left
④	662205	**Same,** 45° upturned
⑤	662231	**Forceps,** straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
⑥	662236	**Same,** curved to left
⑦	662235	**Same,** curved to right
⑧	662237	**Same,** 45° upturned
⑨	662241	**Forceps,** straight, round cupped jaws, diameter 4 mm, working length 15 cm
⑩	662210	**Forceps,** straight, not through-cutting, extra sharp, width 1.5 mm, working length 15 cm
⑪	662212	**Same,** curved to right
⑫	662213	**Same,** curved to left
⑬	662214	**Same,** 45° upturned
⑭	662215	**Same,** 90° upturned
⑮	662221	**Forceps,** straight, not through-cutting, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
⑯	662223	**Same,** curved to right
⑰	662224	**Same,** curved to left
⑱	662227	**Same,** 45° upturned
⑲	662228	**Same,** 90° upturned
⑳	662248	BLAKESLEY **Forceps,** straight, with oval, fenestrated cupped jaws, width 4 mm, working length 15 cm
㉑	662251	**Miniature Forceps,** straight, through-cutting, working length 15 cm
㉒	662255	**Same,** curved to right
㉓	662256	**Same,** curved to left
㉔	663257	**Same,** curved upwards
㉕	662271	**Grasping Forceps,** straight, fine serrated, working length 15 cm
㉖	662300	**Scissors,** straight, working length 15 cm
㉗	662301	**Scissors,** straight, extra delicate, working length 15 cm
㉘	662304	**Same,** curved to right
㉙	662305	**Same,** curved to left
㉚	662307	**Same,** 45° curved upwards
㉛	663402	**Sickle Knife,** length 21.5 cm
㉜	663482	**Hook,** with ball end, angled 90°, length 21.5 cm
㉝	663413	**Round Knife,** angled 30°, oval, with round handle, 2.1 x 2.5 mm, length 21.5 cm
㉞	663405	**Round Knife,** vertical, 4.5 x 3 mm, length 21.5 cm
㉟	663463	**Sharp Curette,** oval, angled 60°, 2 x 3.2 mm
㊱	662111	KERRISON **Bone Punch,** rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm
㊲	662100	**Same,** 90° upbiting, size 0.5 mm
㊳	662122	**Same,** upbiting 40° forward, size 2 mm
㊴	662120	**Same,** upbiting 40° forward, size 0.7 mm
㊵	844523	**Bipolar Coagulating Forceps,** insulated, bayonet-shaped, tip 0.7 mm, length 23 cm
㊶	844623	**Same,** blunt, width of tip 1.2 mm
	847000 E	**Bipolar High Frequency Cord,** for 844523 and 844623, to KARL STORZ Coagulator AUTOCON® and Erbe Coagulator (not illustrated)
㊷	663814	**Suction Tube,** angular, malleable, diameter 2 mm, working length 10 cm
㊸	663818	**Same,** working length 13 cm
㊹	798618	HEGAR **Needle Holder,** slender, tungsten carbide inserts, length 18 cm
㊺	799016	DRAF **Micro Needle Holder,** with diamond coated jaws, length 16.5 cm
㊻	662476	OLIVECRONA **Brain Spatula,** concave, elastic, width 7 and 9 mm, length 18 cm
㊼	662477	**Same,** width 11 and 13 mm
㊽	662478	**Same,** width 15 and 18 mm, complete

Additional instruments for transtemporal surgery

㊾	219717 B	FISCH **Retractor,** sharp, length 17 cm
㊿	219800	FISCH **Dura Retractor,** length 18 cm

Accessories recommended for containers (not illustrated):

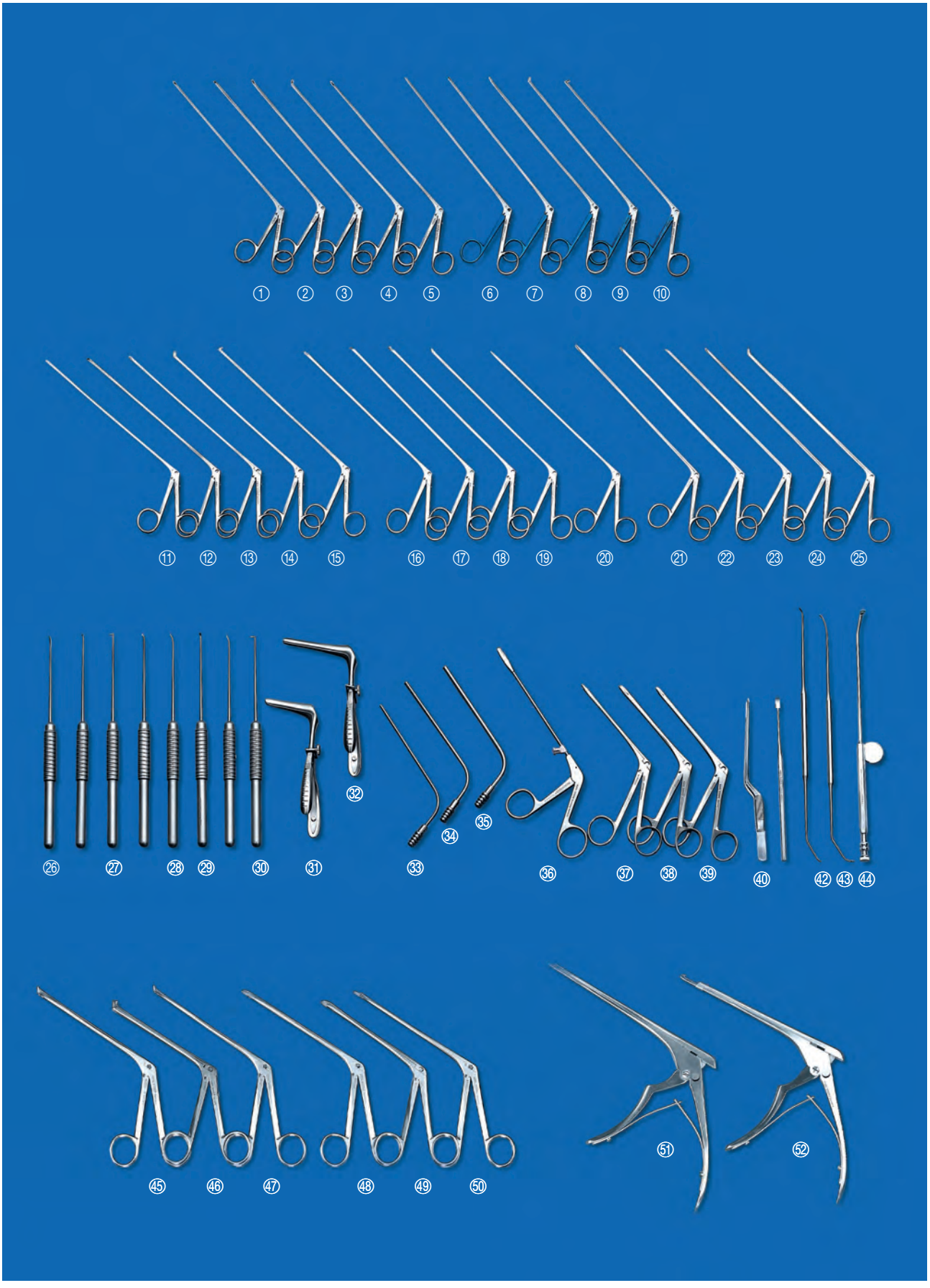
39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39752 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

11-03₁

DRAF **Special Set for Endonasal Anterior Skull Base Surgery**

KARL STORZ — ENDOSKOPE



11-03

DRAF **Special Set for Endonasal Anterior Skull Base Surgery**

KARL STORZ — ENDOSKOPE

①	662231	**Forceps,** straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
②	662235	**Same,** curved to right
③	662236	**Same,** curved to left
④	662237	**Same,** 45° upturned
⑤	662241	**Forceps,** straight, with round cupped jaws, diameter 4 mm, working length 15 cm
⑥	662210	**Forceps,** straight, not through-cutting, extra sharp, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
⑦	662212	**Same,** curved to right
⑧	662213	**Same,** curved to left
⑨	662214	**Same,** 45° upturned
⑩	662215	**Same,** 90° upturned
⑪	662221	**Forceps,** straight, not through-cutting, with oval, fenestrated spoon, width 1.8 mm, working length 15 cm
⑫	662223	**Same,** curved to right
⑬	662224	**Same,** curved to left
⑭	662227	**Same,** 45° upturned
⑮	662228	**Same,** 90° upturned
⑯	662251	**Miniature Forceps,** straight, through-cutting, working length 15 cm
⑰	662255	**Same,** curved to right
⑱	662256	**Same,** curved to left
⑲	662257	**Same,** curved upwards
⑳	662271	**Grasping Forceps,** fine serrated, working length 15 cm
㉑	662300	**Scissors,** straight, working length 15 cm
㉒	662301	**Scissors,** straight, extra delicate, working length 15 cm
㉓	662304	**Same,** curved to right
㉔	662305	**Same,** curved to left
㉕	662307	**Same,** 45° upturned
㉖	663402	**Sickle Knife,** length 21.5 cm
㉗	663482	**Hook,** with ball end, angled 90°, length 21.5 cm
㉘	663413	**Round Knife,** angled 30°, oval, 2.1 x 2.5 mm, length 21.5 cm
㉙	663405	**Round Knife,** vertical, 4.5 x 3 mm, length 21.5 cm
㉚	663463	**Curette,** sharp, oval, angled 60°, 2 x 3.2 mm
㉛	403255	KILLIAN-STRUYCKEN **Nasal Speculum,** with set rack, blade length 55 mm
㉜	403275	**Same,** blade length 75 mm
㉝	203730	**Suction Tube,** diameter 3 mm, working length 11 cm
㉞	203740	**Same,** outer diameter 4 mm
㉟	203750	**Same,** outer diameter 5 mm
㊱	449201	**RHINOFORCE® II Nasal Scissors,** straight, working length 13 cm
㊲	456001	BLAKESLEY **Nasal Forceps,** size 1
㊳	456003	**Same,** size 3
㊴	456002	**Same,** size 2
㊵	426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
㊶	477500	FREER **Raspatory,** curved, width 4 mm, length 18 cm
㊷	28164 EB	CASTELNUOVO **Elevator, double-ended,** blunt end slightly curved, length 26 cm
㊸	28164 EC	CASTELNUOVO **Elevator, double-ended**, semisharp end slightly curved, graduated, length 26 cm
㊹	28164 ES	CASTELNUOVO **Suction Elevator,** length 25 cm

Additional instruments: through-cutting nasal forceps

㊺	453710	**Nasal Cutting Forceps,** 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
㊻	453723	**Nasal Cutting Forceps,** 45° upturned, through-cutting, strong model, medium size, bite 2.75 x 6 mm, working length 10.5 cm
㊼	453721	**Same,** fine, bite 1.5 x 4 mm, working length 12.5 cm
㊽	453508	**Nasal Cutting Forceps,** straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
㊾	453510	**Nasal Cutting Forceps,** straight, through-cutting, strong model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
㊿	453509	**Same,** fine, bite 1.25 x 5 mm, working length 12.5 cm
(51)	662102	KERRISON **Bone Punch,** rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm
(52)	662103	**Same,** size 3 mm

Accessories recommended for containers (not illustrated):

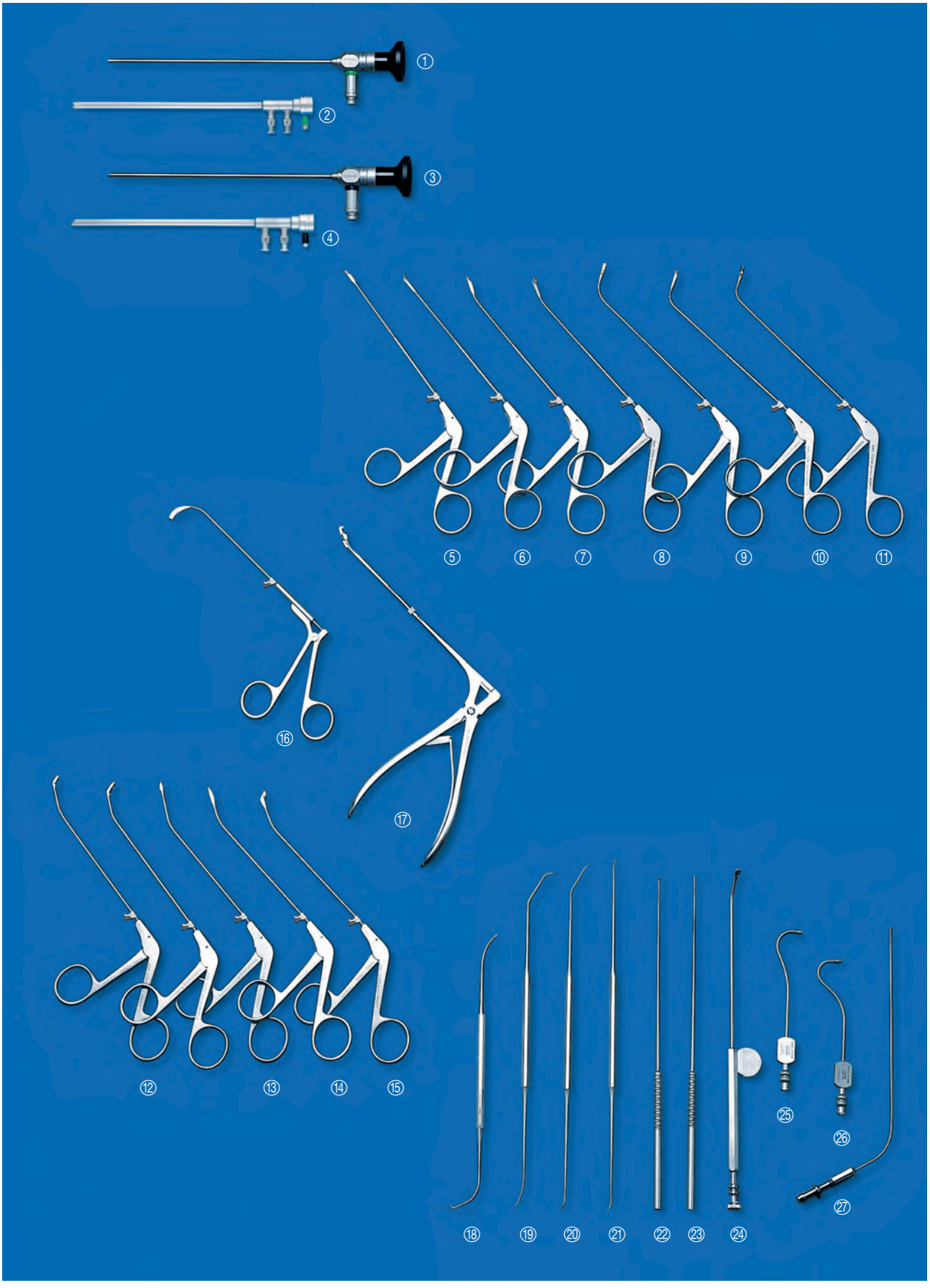
39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39751 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

11-03

CASTELNUOVO **Special Set for Endonasal Endoscopic Anterior Skull Base Surgery**

KARL STORZ — ENDOSKOPE



11-03

CASTELNUOVO **Special Set for Endonasal Endoscopic Anterior Skull Base Surgery**

KARL STORZ — ENDOSKOPE

①	7230 AA	**HOPKINS® II Straight Forward Telescope 0,** diameter 4 mm, length 18 cm
②	7230 AS	**Irrigation Sheath,** for 7230 AA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
③	7230 FA	**HOPKINS® II Forward-Oblique Telescope 45°,** diameter 4 mm, length 18 cm
④	7230 FS	**Irrigation Sheath,** for 7230 FA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
⑤	452831	**RHINOFORCE® II Miniature Nasal Forceps,** with extra fine flat jaws, through-cutting, tissue-sparing, straight jaws, width of cut 1.5 mm, working length 13 cm
⑥	452832	**Same,** jaws 45° upturned
⑦	452833	**Same,** sheath curved 30°, straight jaws
⑧	452834	**Same,** jaws 45° angled upwards
⑨	452841 R	CASTELNUOVO **RHINOFORCE® II Miniature Nasal Forceps,** with extra fine flat jaws, through-cutting, tissue-sparing, 65° upturned, right side opening, width of cut 1.5 mm, working length 13 cm
⑩	452841	**Same,** backward opening
⑪	452841 L	**Same,** left side opening
⑫	451510 B	CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, working length 13 cm
⑬	456010 B	BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, with straight jaws, width 3 mm, working length 13 cm
⑭	451010 B	CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, through-cutting, with straight jaws, BLAKESLEY shape, width 3 mm, working length 13 cm
⑮	456510 B	BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps,** end of sheath 25° upturned, jaw 45° upturned, width 3 mm, working length 13 cm
⑯	653000	HEUWIESER **Antrum Grasping Forceps,** jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
⑰	648523	McKENTY-CASTELNUOVO **Sphenoid Punch,** tip curved 30°, through-cutting, reversible, size 1.6 x 2 mm, working length 17 cm
⑱	629824	CASTELNUOVO **Frontal Sinus Probe, double-ended,** curved, length 22 cm
⑲	28164 EC	CASTELNUOVO **Elevator, double-ended**, blunt end angled, graduated, length 26 cm
⑳	28164 EB	CASTELNUOVO **Elevator, double-ended,** blunt end slightly curved, length 26 cm
㉑	28164 EA	CASTELNUOVO **Elevator, double-ended**, semisharp and blunt, length 26 cm
㉒	28164 H	CASTELNUOVO **Hook,** 90°, blunt, with round handle, length 25 cm
㉓	28164 MP	**Round Knife,** vertical, oval, with round handle, 3.5 x 2.5 mm, length 25 cm
㉔	28164 ES	CASTELNUOVO **Suction Elevator,** curved, length 25 cm
㉕	586146	v. EICKEN-CASTELNUOVO **Antrum Cannula,** S-shaped, strongly curved, outer diameter 2.5 mm
㉖	586145	**Same,** slightly curved
㉗	649180 N	FERGUSON-CASTELNUOVO **Suction Tube,** diameter 2 mm, working length 15 cm

Accessories recommended for containers (not illustrated):

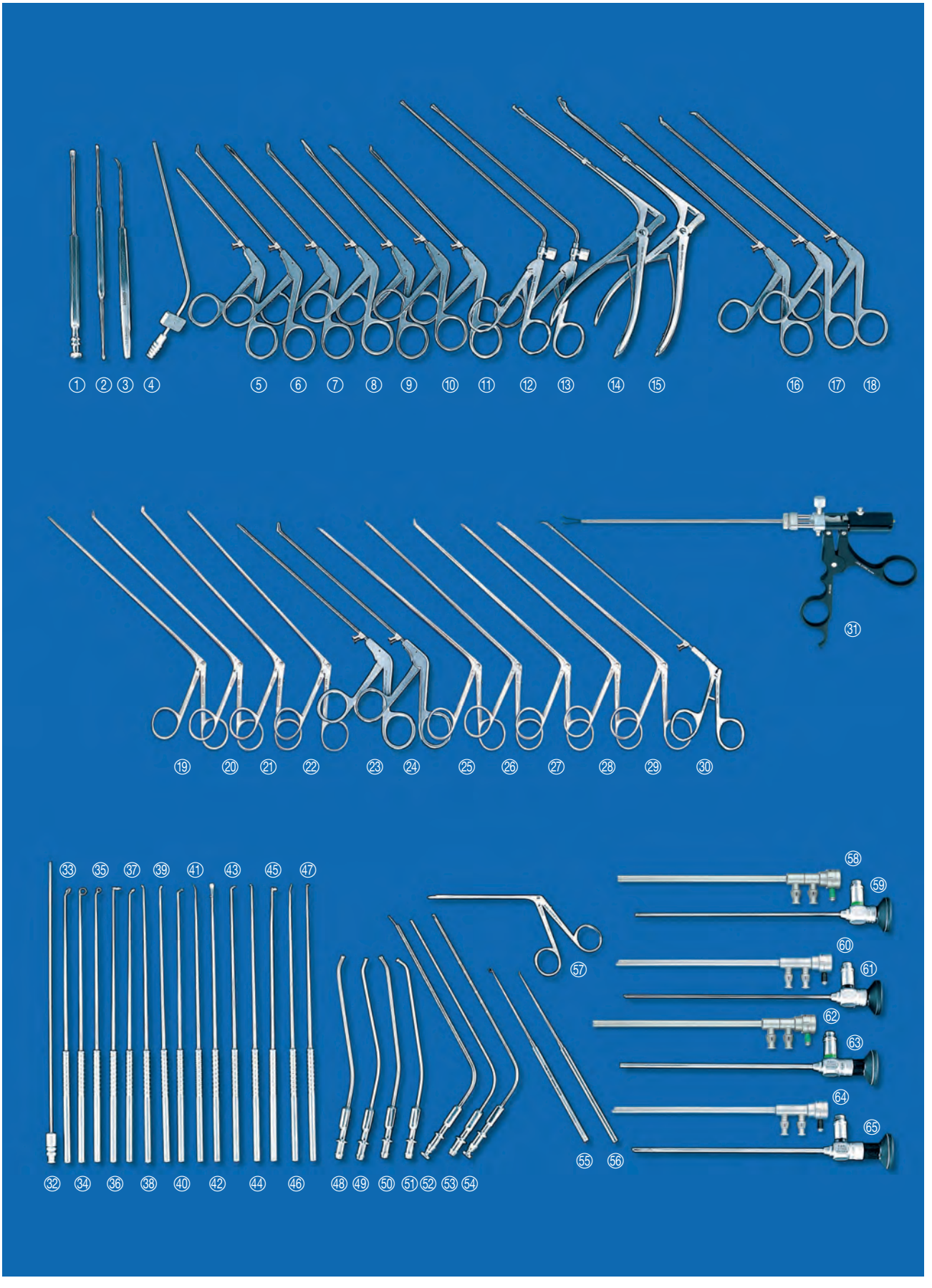
2x 39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39751 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

11-03

CASTELNUOVO-LOCATELLI **Special Set for Endonasal Endoscopic Access to Sella Region**

KARL STORZ — ENDOSKOPE



11-03

CASTELNUOVO-LOCATELLI **Special Set for Endonasal Endoscopic Access to Sella Region**

KARL STORZ — ENDOSKOPE

Instruments for nasal access

①	474001	FREER **Suction Elevator,** length 19 cm
②	479100	COTTLE **Elevator**
③	628001	**Sickle Knife,** pointed
④	722830	**Suction Tube,** outer diameter 3 mm
⑤	456000 B	BLAKESLEY **RHINOFORCE® II Nasal Forceps,** straight
⑥	456500 B	BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps,** 45° upturned
⑦	451000 B	GRÜNWALD-HENKE **RHINOFORCE® II Nasal Forceps,** straight, through-cutting
⑧	451500 B	**Same,** 45° upturned
⑨	452001 B	MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Forceps,** through-cutting
⑩	452831	**RHINOFORCE® II Miniature Nasal Forceps,** with extra fine flat jaws, straight
⑪	452832	**Same,** jaws 45° upturned
⑫	651055	STAMMBERGER **Punch,** circular cutting, diameter 3.5 mm, working length 18 cm
⑬	651050	**Same,** diameter 4.5 mm
⑭	648521	McKENTY **Sphenoid Punch,** reversible
⑮	648523	McKENTY-CASTELNUOVO **Sphenoid Punch,** tip curved 30°, through-cutting, working length 17 cm

Instruments for accessing the sella region

⑯	28164 UA	**RHINOFORCE® II Nasal Forceps,** through-cutting, width of cut 1.5 mm, straight jaws, working length 18 cm
⑰	28164 UB	**Same,** jaws angled upwards 45°
⑱	28164 UE	**Same,** jaws angled downwards 45°
⑲	663202	**Forceps,** round cupped jaws, diameter 0.6 mm, straight, working length 18 cm
⑳	663237	**Forceps,** 45° upturned, with round cupped jaws, diameter 2.5 mm, working length 18 cm
㉑	663227	**Forceps,** 45° upturned, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 18 cm
㉒	663221	**Same,** straight
㉓	649100 B	BLAKESLEY **RHINOFORCE® II Ethmoid Forceps,** size 0, working length 16 cm
㉔	649110 B	BLAKESLEY-WILDE **RHINOFORCE® II Ethmoid Forceps,** 45° upturned
㉕	663304	**Scissors,** curved to right, extra delicate, working length 18 cm
㉖	663305	**Same,** curved to left
㉗	663307	**Same,** 45° curved upwards
㉘	663302	**Same,** straight
㉙	663300	**Scissors,** straight, working length 18 cm
㉚	663327	**Scissors,** 45° upwards curve, rotating, working length 18 cm
㉛	28164 BDL	**TAKE-APART® Bipolar Forceps,** distally angled 45°, working length 20 cm
	26176 LE	**Bipolar High Frequency Cord,** length 300 cm (not illustrated)
㉜	28164 X	CASTELNUOVO **Suction Tube,** diameter 2 mm, working length 25 cm
㉝	28164 RO	CAPPABIANCA-de DIVITIIS **Ring Curette,** with round wire, inner diameter 5 mm, tip angled 45°
㉞	28164 RD	**Same,** laterally curved sheath end 90°
㉟	28164 RB	**Same,** inner diameter 3 mm, laterally curved sheath end
㊱	28164 RG	**Same,** tip angled 90°
㊲	28164 RN	**Same,** inner diameter 3 mm
㊳	28164 KA	**Curette,** round spoon, size 1 mm, length 23 cm
㊴	28164 KB	**Curette,** size 2 mm, length 25 cm
㊵	28164 KG	**Curette,** spoon-shaped, size 3 mm, length 25 cm
㊶	28164 DS	**Dissector,** sharp, tip angled 15°, size 2 mm, length 25 cm
㊷	28164 DM	**Dissector,** sharp, curved, size 3 mm, length 25 cm
㊸	28164 KF	**Curette,** spoon-shaped, size 2 mm, length 25 cm
㊹	28164 DA	**Dissector,** sharp, tip angled 45°, size 2 mm, length 25 cm
㊺	28164 RR	CAPPABIANCA-de DIVITIIS **Curette,** stirrup-shaped, length 25 cm
㊻	28164 DF	**Dissector,** sharp, size 1.5 mm, length 25 cm
㊼	28164 H	CASTELNUOVO **Hook,** 90°, blunt, with round handle, length 25 cm
㊽	662885	FRANK-PASQUINI **Suction Tube,** tip curved upwards, diameter 3 mm, working length 13 cm
㊾	662882	**Same,** diameter 2.4 mm, curved upwards
㊿	662886	**Same,** diameter 3 mm, curved downwards
(51)	662883	**Same,** diameter 2.4 mm, curved downwards,
(52)	649180 N	FERGUSON-CASTELNUOVO **Suction Tube,** diameter 2 mm, working length 15 cm
(53)	649183	FERGUSON **Suction Tube,** LUER, 10 Fr., working length 15 cm
(54)	649182 BU	FERGUSON-CASTELNUOVO **Suction Tube,** diameter 2.5 mm

Instruments for removal of septum cartilage material used for closing the access to the pituitary gland

(55)	660506	**Round Knife,** vertical cuttng, length 18 cm
(56)	660509	**Round Knife,** angled 45°, diameter 2 mm, length 18 cm
(57)	634826	BELLUCCI **Scissors,** straight, working length 12.5 cm

Telescopes

(58)	7219 AS	**Suction and Irrigation Sheath 0°,** for 7229 AA and KARL STORZ lens irrigation system CLEARVISION® II (see chapter 4, SINOSCOPY)
(59)	7229 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 2.7 mm, length 18 cm
(60)	7219 FS	**Irrigation and Suction Sheath 45°,** for 7219 FA and KARL STORZ lens irrigation system CLEARVISION® II (see chapter 4, SINOSCOPY)
(61)	7229 FA	**HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 2.7 mm, length 18 cm
(62)	7230 AS	**Irrigation Sheath,** for 7230 AA and KARL STORZ lens irrigation system CLEARVISION® II (see chapter 4, SINOSCOPY)
(63)	7230 AA	**HOPKINS® II Straight Forward Telescope 0,** enlarged view, diameter 4 mm, length 18 cm
(64)	7230 FS	**Irrigation Sheath,** for 7230 FA and KARL STORZ lens irrigation system CLEARVISION® II (see chapter 4, SINOSCOPY)
(65)	7230 FA	**HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, diameter 4 mm, length 18 cm

Accessories recommended for containers (not illustrated):

39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39753 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

11-03$_3$

Basic Set for Tonsillectomy and Adenoidectomy

KARL STORZ — ENDOSKOPE



8-942

Basic Set for Tonsillectomy and Adenoidectomy

KARL STORZ — ENDOSKOPE

①		744201	RUSSEL-DAVIS **Tongue Blade,** size 1
②		744202	**Same,** size 2
③		744203	**Same,** size 3
④		744204	**Same,** size 4
⑤		740700	HARTMANN **Tongue Depressor**
⑥		450003	HARTMANN **Nasal Cutting Forceps,** round, size 3
⑦		740000	BRÜNINGS **Tongue Depressor,** length 19 cm
⑧		767902	**Laryngeal Mirror,** with unscrewable hexagonal handle, size 2
⑨		767906	**Laryngeal Mirror,** with unscrewable hexagonal handle, size 6
⑩		810502	**Needle, Tonsil,** straight
⑪		810506	**Septum Needle,** angular, LUER-Lock
⑫	6x	796011	BACKHAUS **Towel Forceps,** length 11 cm
⑬		810806	**Cup Medicine,** 60 ccm
⑭		744500	DAVIS-MEYER **Mouth Gag**
⑮		744600	McIVOR **Mouth Gag**
⑯		753500	BRÜNINGS **Tonsil Snare**
		754200	**Wire Snare Loop,** for 753500, package of 100 (not illustrated)
⑰		751001	BLOHMKE **Forceps**
⑱		750800	COLVER **Forceps**
⑲		752500	GOOD **Scissors**
⑳		755500	YANKAUER **Suction Tube**
㉑		751411	HENKE **Elevator,** width 11.5 mm
㉒		754719	SCHNIDT **Forceps,** slightly curved, serrated
㉓		754518	MIKULICZ **Forceps,** small size, 1 x 2 teeth
㉔		750000	**Dressing Forceps,** serrated, length 20 cm
㉕		750123	**Tissue Forceps,** 2 x 3 teeth, length 20 cm
㉖		757700	ROEDER **Loop Applicator,** model E
		757811	**Loop,** for 757700, absorbable, sterile, package of 12 (not illustrated)
㉗		730000	BECKMANN **Adenoid Curette,** straight, size 0
㉘		730001	**Same,** size 1
㉙		730002	**Same,** size 2
㉚		730003	**Same,** size 3
㉛		730004	**Same,** size 4
㉜		746700	NAGER **Pillar Retractor**
㉝		732500	JURACZ **Adenoid Forceps,** sharp
㉞		798618	HEGAR **Needle Holder,** slender, tungsten carbide inserts, length 18 cm
㉟		842219	**Bipolar Coagulation Forceps,** length 19 cm
		847000 E	**Bipolar High Frequency Cord,** for 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)

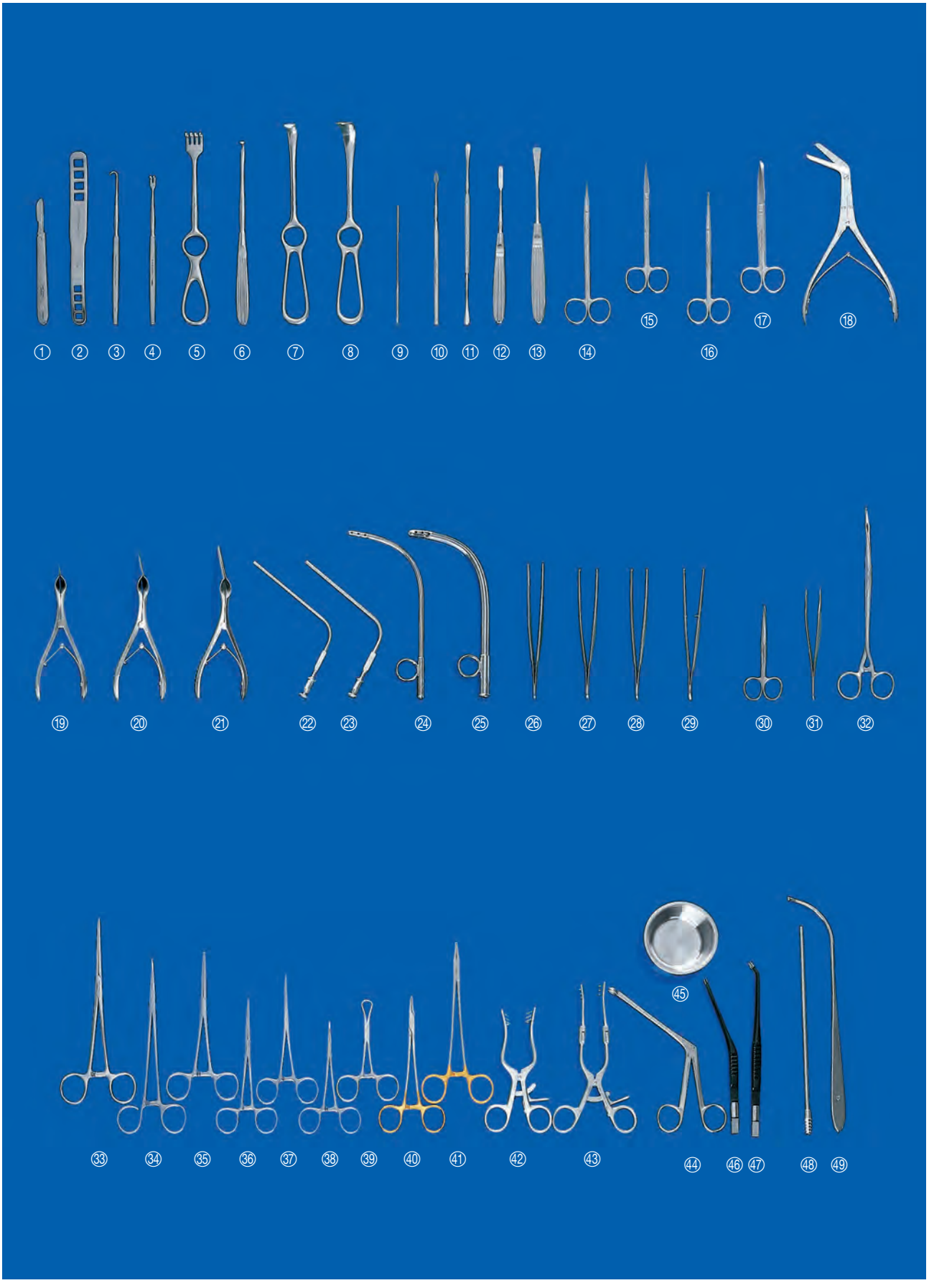
Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**
39742 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94₂

Basic Tracheostomy Set



8-941

Basic Tracheostomy Set

KARL STORZ — ENDOSKOPE

①		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
		208010	**Blade,** Fig. 10, non-sterile, package of 100 (not illustrated)
		208011	**Same,** Fig. 11, non-sterile, package of 100 (not illustrated)
		208015	**Same,** Fig. 15, non-sterile, package of 100 (not illustrated)
②		740000	BRÜNINGS **Tongue Depressor,** length 19 cm
③		786001	**Retractor,** sharp, 1 prong
④		786002	**Same,** 2 prongs
⑤	2x	800404	VOLKMANN **Retractors,** sharp, 4 prongs
⑥		786500	SCHÖNBORN **Thymus Retractor,** width 5 mm, length 20.5 cm
⑦	2x	801800	LANGENBECK **Retractors,** 33 x 14 mm
⑧	2x	801600	**Same,** 60 x 20 mm
⑨	2x	151011	**Cotton Applicators,** triangular serrated, working length 13 cm
⑩		212000	WULLSTEIN **Elevator**
⑪		474000	FREER **Elevator,** double-ended
⑫		478000	JOSEPH **Elevator**
⑬		169009	JANSEN **Raspatory**
⑭		791815	REYNOLDS **Dissecting Scissors,** delicate tips
⑮		511414	JOSEPH **Scissors,** curved, length 14 cm
⑯		511615	METZENBAUM-LAHEY **Scissors,** extra slender
⑰		791202	**Dissecting Scissors,** curved, sharp/blunt, length 14.5 cm
⑱		789500	KILLIAN **Laryngectomy Scissors**
⑲		403555	KILLIAN-STRUYCKEN **Nasal Speculum,** standard model, blade length 55 mm, length 13.5 cm
⑳		403575	**Same,** blade length 75 mm
㉑		403590	**Same,** blade length 90 mm
㉒		204809	FERGUSON **Suction Tube,** 9 Fr.
㉓		204812	**Same,** 12 Fr.
㉔		785005	BRÜNINGS **Live-Saving Tube,** outer diameter 5 mm
㉕		785009	**Same,** outer diameter 9 mm
㉖		530416	"ATRAUMA" **Atraumatic Tissue Forceps,** length 16 cm
㉗	2x	793401	**Tissue Forceps,** 1 x 2 teeth, standard width, length 14.5 cm
㉘		793402	**Same,** medium
㉙		793403	**Same,** narrow
㉚		513410	COTTLE **Scissors,** curved, length 10.5 cm
㉛		533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㉜		748220	DUPLAY **Dressing and Sponge Holding Forceps,** curved, length 21 cm
㉝		755120	HALLE-BIRKET **Forceps,** straight, length 20 cm
㉞	2x	754719	SCHNIDT **Forceps,** slightly curved, length 19 cm
㉟		794016	ROCHESTER-PEAN **Artery Forceps,** straight, length 16 cm
㊱	2x	794014	**Same,** length 14 cm
㊲	2x	794514	OCHSNER-KOCHER **Artery Forceps,** straight, length 14 cm
㊳	8x	535212	HALSTEAD **"Mosquito" Artery Forceps,** curved, length 12.5 cm
㊴	6x	796011	BACKHAUS **Towel Forceps,** length 11 cm
㊵		516015	**Needle Holder,** tungsten carbide inserts, length 15 cm
㊶		798618	HEGAR **Needle Holder,** slender, tungsten carbide inserts, length 18 cm
㊷		219513	WULLSTEIN **Retractor,** 3 x 3 teeth, length 13 cm
㊸		219717	FISCH **Retractor,** 3 x 3 teeth, length 17 cm
㊹		450002	HARTMANN **Nasal Cutting Forceps,** round, size 2
㊺		810810	**Cup Medicine,** 100 ccm
㊻		843116	**Bipolar Coagulating Forceps,** angled
㊼		842219	**Same,** angled tip, length 19 cm
		847000 E	**Bipolar High Frequency Cord,** for 843116 and 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
㊽		203930	**Suction Tube,** malleable, outer diameter 3 mm
㊾		771000	KILLIAN **Laryngeal Applicator,** length 25 cm

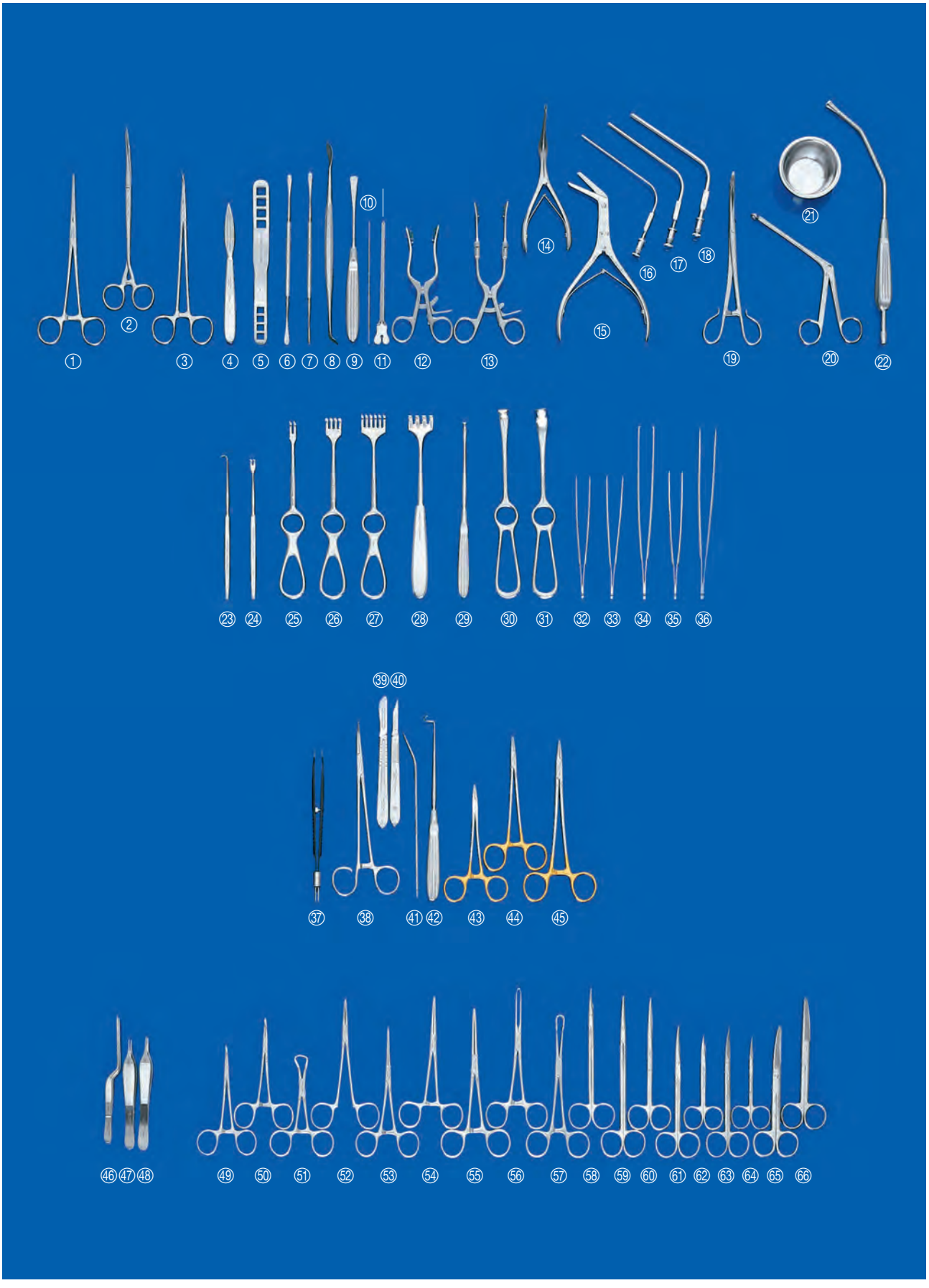
Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39741 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94₂

Basic Neck Dissection Set



8-94-1

Basic Neck Dissection Set

①	2x	755120	HALLE-BIRKETT **Forceps,** straight
②	2x	748220	DUPLAY **Dressing and Sponge Holding Forceps,** curved
③	2x	755401	NEGUS **Forceps,** large curve
④		787000	KOCHER **Probe,** length 16.5 cm
⑤		740000	BRÜNINGS **Tongue Depressor,** length 19 cm
⑥		474000	FREER **Elevator,** double-ended
⑦		474200	FREER-JOSEPH **Elevator,** double-ended
⑧		751411	HENKE **Elevator,** width 11.5 mm
⑨		169009	JANSEN **Raspatory,** width 9 mm
⑩		797214	**Bulbous Probe,** diameter 1.5 mm, length 14.5 cm
⑪		797314	**Grooved Director,** length 14.5 cm
⑫		219513	WULLSTEIN **Retractor,** length 13 cm
⑬		219717	FISCH **Retractor,** length 17 cm
⑭		403575	KILLIAN-STRUYCKEN **Nasal Speculum,** blade length 75 mm
⑮		789500	KILLIAN **Laryngectomy Scissors,** with double joint, length 21.5 cm
⑯		204809	FERGUSON **Suction Tube,** 9 Fr.
⑰		204812	**Same,** 12 Fr.
⑱		204815	**Same,** 15 Fr.
⑲		751001	BLOHMKE **Forceps,** length 20 cm
⑳		450002	HARTMANN **Nasal Cutting Forceps,** round, size 2, working length 11 cm
㉑		810806	**Cup Medicine,** 60 ccm, diameter 70 mm
		810810	**Cup Medicine,** 100 ccm, diameter 80 mm (not illustrated)
㉒		755500	YANKAUER **Suction Tube,** length 29 cm
㉓	2x	786001	**Retractor,** sharp, 1 prong
㉔	2x	786002	**Same,** 2 prongs
㉕	2x	800402	VOLKMANN **Retractors,** sharp, 2 prongs
	2x	800502	**Same,** blunt (not illustrated)
㉖	2x	800404	VOLKMANN **Retractors,** sharp, 4 prongs
	2x	800504	**Same,** blunt (not illustrated)
㉗	2x	800406	VOLKMANN **Retractors,** sharp, 6 prongs
	2x	800506	**Same,** blunt (not illustrated)
㉘		801414	GLANZ **Retractor,** curved backwards, for retracting the jugular vein
㉙		786500	SCHÖNBORN **Thymus Retractor**
㉚		801800	LANGENBECK **Retractor,** 33 x 14 mm
㉛		801600	**Same,** oval blade, 60 x 20 mm
㉜		792402	**Dressing Forceps,** medium, length 14.5 cm
		792403	**Same,** narrrow (not illustrated)
㉝		793401	**Tissue Forceps,** 1 x 2 teeth, length 14.5 cm
		793402	**Same,** medium (not illustrated)
		793403	**Same,** narrow (not illustrated)
㉞		750000	**Dressing Forceps,** serrated, length 20 cm
㉟		530416	"ATRAUMA" **Atraumatic Tissue Forceps,** length 16 cm
㊱		750112	**Tissue Forceps,** 1 x 2 teeth, length 20 cm
㊲		842216	**Bipolar Coagulating Forceps,** angled tip, blunt, tip 1 mm, length 16 cm
		842219	**Same,** tip 2 mm, length 19 cm (not illustrated)
		847000 E	**Bipolar High Frequency Cord,** for 842216/842219 (not illustrated)
		26 5200 38	**Ball Electrode,** 4 mm (not illustrated)
		26 5200 34	KIRSCHNER **Spatula Electrode,** straight (not illustrated)
		26 5200 46	**Electrode Handle,** without buttons, with integrated connection cable (not illustrated)
㊳	12x	754719	SCHNIDT **Forceps,** slightly curved, length 19 cm
㊴		208100	**Surgical Handle,** Fig. 4
		208320	**Blade,** for Handle 208100, Fig. 20, sterile, package of 100
㊵		208000	**Surgical Handle,** Fig. 3, length 12.5 cm
		208210	**Blade,** Fig 10, sterile, package of 100 (not illustrated)
		208211	**Same,** Fig. 11 (not illustrated)
㊶		797340	REDON **Guide Needle,** angled, with lancet-shaped tip, 10 Fr.
		800001	DESCHAMPS **Ligature Needle,** curved to right, length 20 cm (not illustrated)
㊷		800002	**Same,** curved to left
㊸		516013	**Needle Holder,** tungsten carbide inserts, length 13 cm
㊹		516015	**Same,** length 15 cm
㊺		798618	HEGAR **Needle Holder,** slender, tungsten carbide inserts, length 18 cm
㊻	2x	156000	LUCAE **Ear Forceps,** length 14.5 cm
㊼		533012	ADSON **Dressing Forceps,** serrated, length 12 cm
		533112	ADSON **Tissue Forceps,** 1 x 2 teeth, length 12 cm (not illustrated)
㊽	2x	533212	ADSON-BROWN **Tissue Forceps,** atraumatic, fine side grasping teeth, length 12 cm
㊾	20x	535212	HALSTEAD **"Mosquito" Artery Forceps,** curved, length 12.5 cm
㊿	20x	535612	**Same,** 1 x 2 teeth
(51)	20x	796011	BACKHAUS **Towel Forceps,** length 11 cm
(52)		537014	**Dissecting Forceps,** straight, without ratchet, length 14 cm
(53)	12x	794514	OCHSNER-KOCHER **Artery Forceps,** straight, 1 x 2 teeth, length 14 cm
(54)	12x	794014	ROCHESTER-PEAN **Artery Forceps,** straight, length 14 cm
(55)	4x	794016	**Same,** length 16 cm
(56)	2x	795015	ALLIS **Forceps,** 4 x 5 teeth, length 15 cm
(57)	2x	795115	BRAUN **Hook Forceps,** 4 x 4 teeth, length 15.5 cm
(58)		791815	REYNOLDS **Dissecting Scissors,** curved, delicate tips, length 15 cm
(59)	2x	752918	METZENBAUM **Scissors,** curved, length 18 cm
(60)		511615	METZENBAUM-LAHEY **Scissors,** curved, extra slender, length 15 cm
(61)	2x	511514	METZENBAUM **Scissors,** curved, length 14 cm
(62)		513310	STEVENS **Scissors,** curved, length 10.5 cm
(63)	2x	511414	JOSEPH **Scissors,** curved, length 14 cm
(64)		511210	**Scissors,** extra delicate, curved, length 10 cm
(65)		791202	**Scissors,** curved, pointed/blunt, length 14.5 cm
(66)		790802	**Scissors,** straight, pointed/blunt, length 14.5 cm

Accessories recommended for containers (not illustrated):

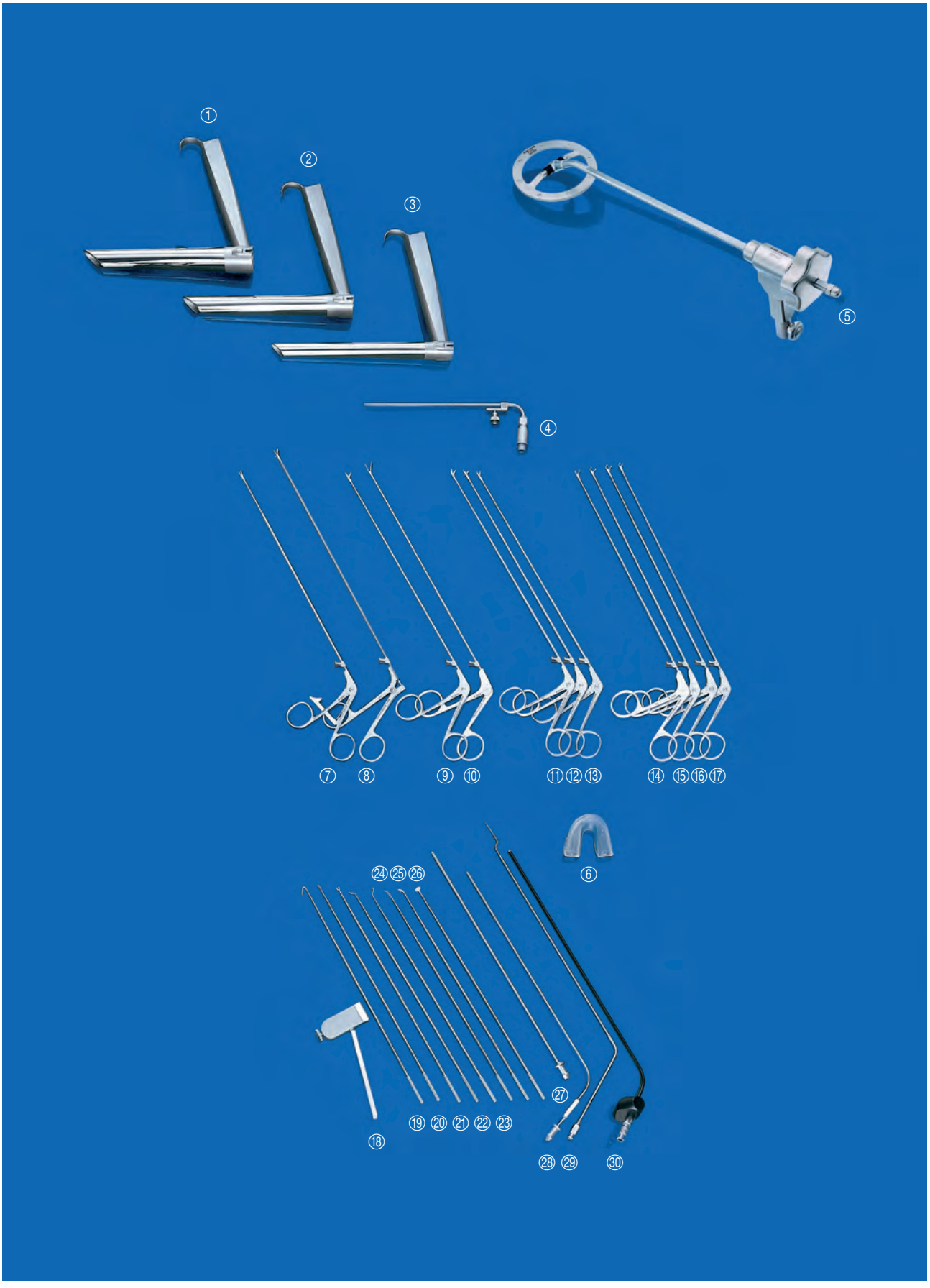
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39751 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

8-94₂

KLEINSASSER **Basic Adult Laryngoscopy Set**

KARL STORZ — ENDOSKOPE



8-94₁

KLEINSASSER **Basic Adult Laryngoscopy Set**

KARL STORZ — ENDOSKOPE

①		8590 B	KLEINSASSER **Operating Laryngoscope,** large, length 17 cm
②		8590 C	**Same,** medium (most commonly used model)
③		8590 DN	**Same,** small, length 18 cm (for very difficult anatomical circumstances)
④		8590 GF	**Fiber Optic Light Carrier,** for use with 8590 B – JL
⑤		8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm
⑥	5x	8575 QS	**Teeth Protector,** silicone, **autoclavable,** can also be used as inlay in metal teeth protector
⑦		8660 N	KLEINSASSER **Needle Holder,** with ratchet, working length 23 cm
⑧		8660 L	KLEINSASSER **Laryngeal Biopsy Forceps,** robust, size 3 x 4 mm, working length 23 cm
⑨		8594 A	KLEINSASSER **Scissors,** straight, working length 23 cm
⑩		8593 A	KLEINSASSER **Grasping Forceps,** without ratchet, serrated, straight, working length 23 cm
⑪		8594 B	KLEINSASSER **Scissors,** angled 45°, working length 23 cm
⑫		8594 C	**Same,** curved to right
⑬		8594 D	**Same,** curved to left
⑭		8591 A	KLEINSASSER **Cutting Forceps**, straight, with 2 mm cupped jaws, working length 23 cm
⑮		8591 B	**Same,** curved upwards
⑯		8591 C	**Same,** curved to right
⑰		8591 D	**Same,** curved to left
⑱		8597	KLEINSASSER **Handle,** for 8595 A – 8596 T
⑲		8596 A	KLEINSASSER **Hook,** blunt, with probe button, working length 23 cm
⑳		8596 B	**Same,** sharp
㉑		8596 T	KLEINSASSER **Knot Tier,** working length 23 cm
㉒		8596 F	KLEINSASSER **Needle,** curved to left, working length 23 cm
㉓		8596 E	**Same,** curved to right
㉔		8595 C	KLEINSASSER **Laryngeal Knife,** sickle-shaped, working length 23 cm
㉕		8595 E	**Same,** golf club-shaped
㉖		8595 A	**Same,** oval, straight
㉗		8596 H	KLEINSASSER **Suction Elevator,** working length 23 cm
㉘		8603	KLEINSASSER **Suction Tube,** outer diameter 2.5 mm
㉙		8598 B	KLEINSASSER **Injection Needle,** LUER-Lock, straight
㉚		8605 N	KLEINSASSER **Insulated Cannula,** for suction and coagulation, outer diameter 3 mm
		26005 M	**Unipolar High Frequency Cord,** with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)

Accessories recommended for containers (not illustrated):

2x	39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
	39753 A2	**Sterilization Container,** with MicroStop®
	39763 A2	**Coding Label**
	39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_2$

Basic Pediatric Laryngoscopy Set



8-94-1

Basic Pediatric Laryngoscopy Set

KARL STORZ — ENDOSKOPE

①	8574 J	BENJAMIN **Operating Laryngoscope,** for children, length 15 cm
②	8574 JH	**Fiber Optic Light Carrier,** for distal illumination, length 12 cm, for use with 8574 J/JP
③	8587 KK	LINDHOLM **Operating Laryngoscope,** for children, distal end width 16 mm, length 11 cm
④	8587 GF	**Fiber Optic Light Carrier,** for distal illumination, length 7.5 cm, for for use with Laryngoscope 8587 A/AA/KK
⑤	8587 P	BENJAMIN-LINDHOLM **Operating Laryngoscope,** for newborn babies and infants, inner diameter of proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm
⑥	8587 PF	**Fiber Optic Light Carrier,** for distal illumination, length 6.5 cm, for use with 8587 P
⑦	497 AC	**Clip,** for proximal illumination
⑧	8602 KS	KLEINSASSER **Suction Tube,** ball-shaped end, outer diameter 2 mm, working length 18 cm
⑨	8603 KS	**Same,** outer diameter 3 mm
⑩	8591 MK	**Spoon Forceps,** jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm
⑪	8593 AK	KLEINSASSER **Grasping Forceps,** straight, serrated, with cleaning connector, working length 18 cm
⑫	8591 BK	KLEINSASSER **Forceps,** upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
⑬	8591 AK	**Same,** straight
⑭	8594 DK	KLEINSASSER **Scissors,** curved to left, with cleaning connector, working length 18 cm
⑮	8594 CK	**Same,** curved to right
⑯	8594 AK	KLEINSASSER **Scissors,** straight, with cleaning connector, working length 18 cm
⑰	8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** rod with metal ring, with 2 lateral screws

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39752 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_2$

STEINER **Basic LASER**
Laryngoscopy Set for Adults

KARL STORZ — ENDOSKOPE



8-943

STEINER **Basic LASER**
Laryngoscopy Set for Adults

KARL STORZ — ENDOSKOPE

①	8666 AN	STEINER **Distending Operating Laryngoscope,** for adults, lightweight construction, channel removing vapor integrated in blade and handle, length 18 cm
②	8666 DN	STEINER **Distending Operating Oropharyngoscope,** for adults, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip 497 AC
③	8661 CN	STEINER **Operating Laryngoscope,** medium-large, for adults, with integrated channel to remove vapor, length 18 cm
④	8661 DN	**Same,** small, for adults with difficult anatomical circumstances and for children, length 19 cm
⑤	8663 BH	**Grasping Forceps,** curved to right, serrated, insulated sheath, working length 23 cm
⑥	8663 CH	**Same,** curved to left
⑦	8593 GM	**Miniature Grasping Forceps,** extra delicate, serrated, with triangular jaws, curved upwards to right, working length 23 cm
⑧	8593 HM	**Same,** curved upwards to left
⑨	8662 D	**LARYNGOFORCE® II Grasping Forceps,** delicate, serrated, special matt finish, working length 22 cm
⑩	8662 E	**LARYNGOFORCE® II Grasping Forceps,** with oval alligator jaws, small, working length 22 cm
⑪	8662 FL	**Same,** medium, working length 22 cm
⑫	8662 GL	**LARYNGOFORCE® II Grasping Forceps,** with oval, fenestrated alligator jaws, large, with suction channel to remove LASER vapors, working length 22 cm
⑬	8665 T	**Clips,** titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each
⑭	8665 L	**LARYNGOFORCE® II Clip Forceps,** jaw curved to left, working length 22 cm
⑮	8665 R	**Same,** jaw curved to right
⑯	8606 D	**Coagulation Suction Tube,** with ergonomic handle, insulated, with connection for unipolar coagulation, outer diameter 2 mm, working length 23 cm
⑰	8606 E	**Same,** outer diameter 2.5 mm
⑱	8606 F	**Same,** outer diameter 3.5 mm
	26005 M	**Unipolar High Frequency Cord,** with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
⑲	8596 R	**Protector,** to protect tissue against unintentional LASER irradiation, oval, diameter 7 mm, working length 23 cm
⑳	497 AC	**Clip,** for proximal illumination
㉑	8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

If required:

	8575 L	**Support Table,** GÖTTINGEN model, for Laryngoscope Holder 8575 K/KC, height adjustable swivel arm with movable plate, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm (not illustrated)

Accessories recommended for containers (not illustrated):

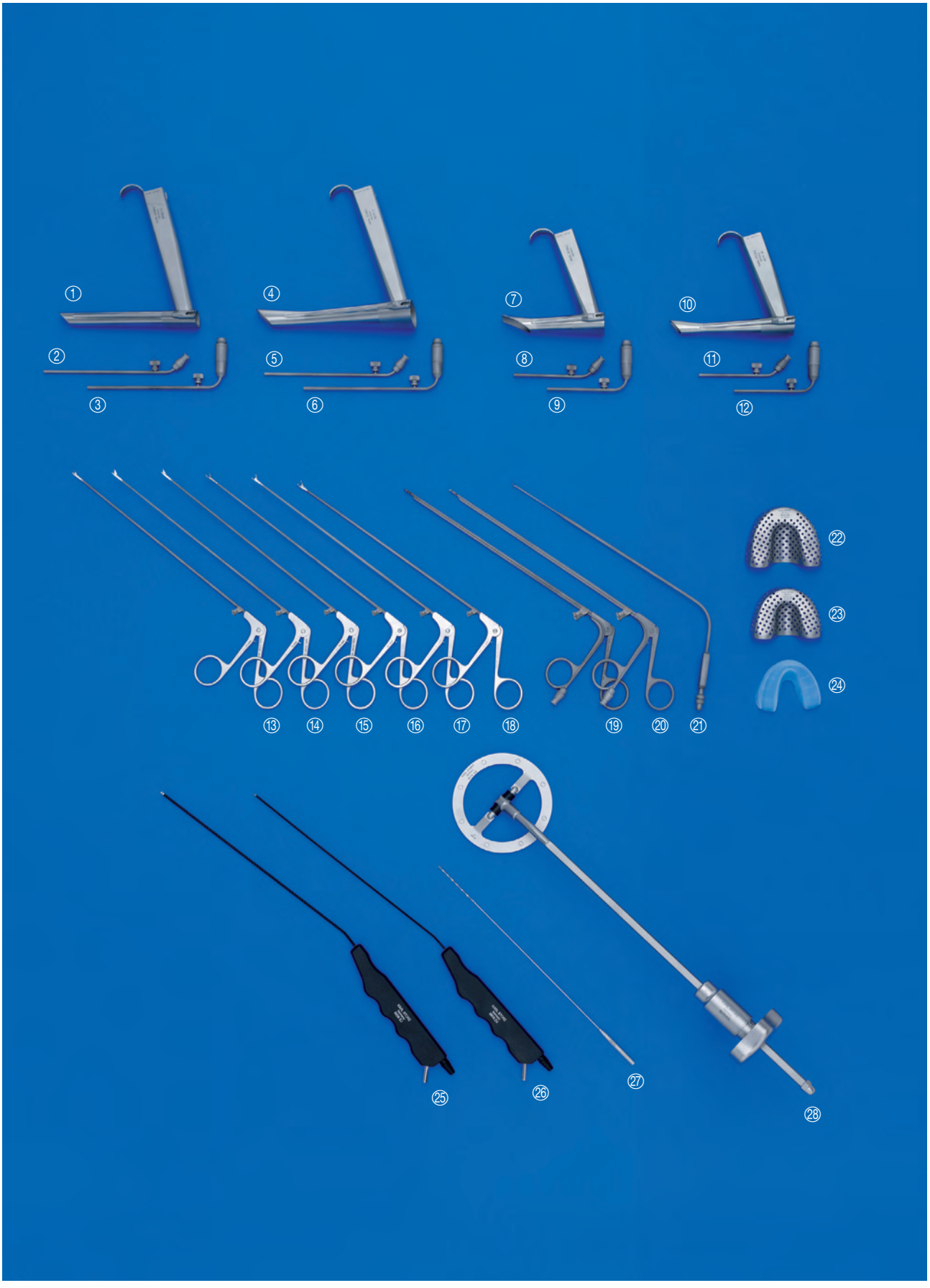
39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39752 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_3$

WERNER **Special Pediatric**
LASER Laryngoscopy Set

KARL STORZ — ENDOSKOPE



3-001

WERNER **Special Pediatric LASER Laryngoscopy Set**

KARL STORZ — ENDOSKOPE

①	8590 LL	KLEINSASSER **Laryngoscope,** modified by RUDERT for CO_2 LASER surgery, for infants, length 13 cm
②	8574 JK	**Suction Tube, to remove vapor,** for use with Laryngoscope 8590 LL
③	8574 JH	**Fiber Optic Light Carrier,** for use with Laryngoscope 8590 LL
④	8574 J	BENJAMIN **Operating Laryngoscope,** for children, length 15 cm
⑤	8574 JK	**Suction Tube, to remove vapor,** for use with Operating Laryngoscope 8574 J
⑥	8574 JH	**Fiber Optic Light Carrier,** for use with Operating Laryngoscope 8574 J
⑦	8574 JB	BENJAMIN **Operating Laryngoscope,** for children, small size, length 11.5 cm
⑧	8587 PM	**Suction Tube, to remove vapor,** for use with Operating Laryngoscope 8574 JB
⑨	8587 PF	**Fiber Optic Light Carrier,** for use with Operating Laryngoscope 8574 JB
⑩	8587 P	BENJAMIN-LINDHOLM **Operating Laryngoscope,** for newborn babies and infants, length 9.5 cm
⑪	8587 PM	**Suction Tube, to remove vapor,** for use with Operating Laryngoscope 8587 P
⑫	8587 PF	**Fiber Optic Light Carrier,** for use with Operating Laryngoscope 8587 P
⑬	8594 AJ	KLEINSASSER **Scissors,** straight, with cleaning connector, working length 21 cm
	8594 AK	**Same,** working length 18 cm
⑭	8594 CJ	KLEINSASSER **Scissors,** curved to right, with cleaning connector, working length 21 cm
	8594 CK	**Same,** working length 18 cm
⑮	8594 DJ	KLEINSASSER **Scissors,** curved to left, with cleaning connector, working length 21 cm
	8594 DK	**Same,** working length 18 cm
⑯	8591 AJ	KLEINSASSER **Forceps,** straight, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
	8591 AK	**Same,** working length 18 cm
⑰	8591 CJ	KLEINSASSER **Forceps,** curved to right, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
	8591 CK	**Same,** working length 18 cm
⑱	8591 DJ	KLEINSASSER **Forceps,** curved to left, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
	8591 DK	**Same,** working length 18 cm
⑲	8591 RJL	**Spoon Forceps,** diameter 2 mm, opens horizontally to right, sheath conically reinforced from distal to proximal, with suction channel to remove vapor, with cleaning connector, working length 21 cm
	8591 RJK	**Same,** working length 18 cm
⑳	8591 SJL	**Same,** opens horizontally to left, working length 21 cm
	8591 SJK	**Same,** opens horizontally to left, working length 18 cm
㉑	8596 OJ	**Protector,** curved upwards, diameter 3 mm, to protect tissue against unintentional LASER irradiation, working length 21 cm
	8596 OK	**Same,** working length 18 cm
㉒	8575 RC	**Teeth Protector,** metal, small
㉓	8575 RB	**Teeth Protector,** metal, medium
㉔	8575 QS	**Teeth Protector,** silicone, **autoclavable,** can also be used as inlay in metal teeth protector
㉕	8606 DJ	**Coagulation Suction Tube,** with ergonomical handle, insulated, outer diameter 2 mm, working length 21 cm
	8606 DK	**Same,** working length 18 cm
㉖	8606 EJ	**Same,** outer diameter 2.5 mm, working length 21 cm
	8606 EK	**Same,** working length 18 cm
	26005 M	**Unipolar High Frequency Cord,** with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
㉗	8596 WJ	**Cotton Applicator,** straight, working length 21 cm
	8596 WK	**Same,** working length 18 cm
㉘	8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

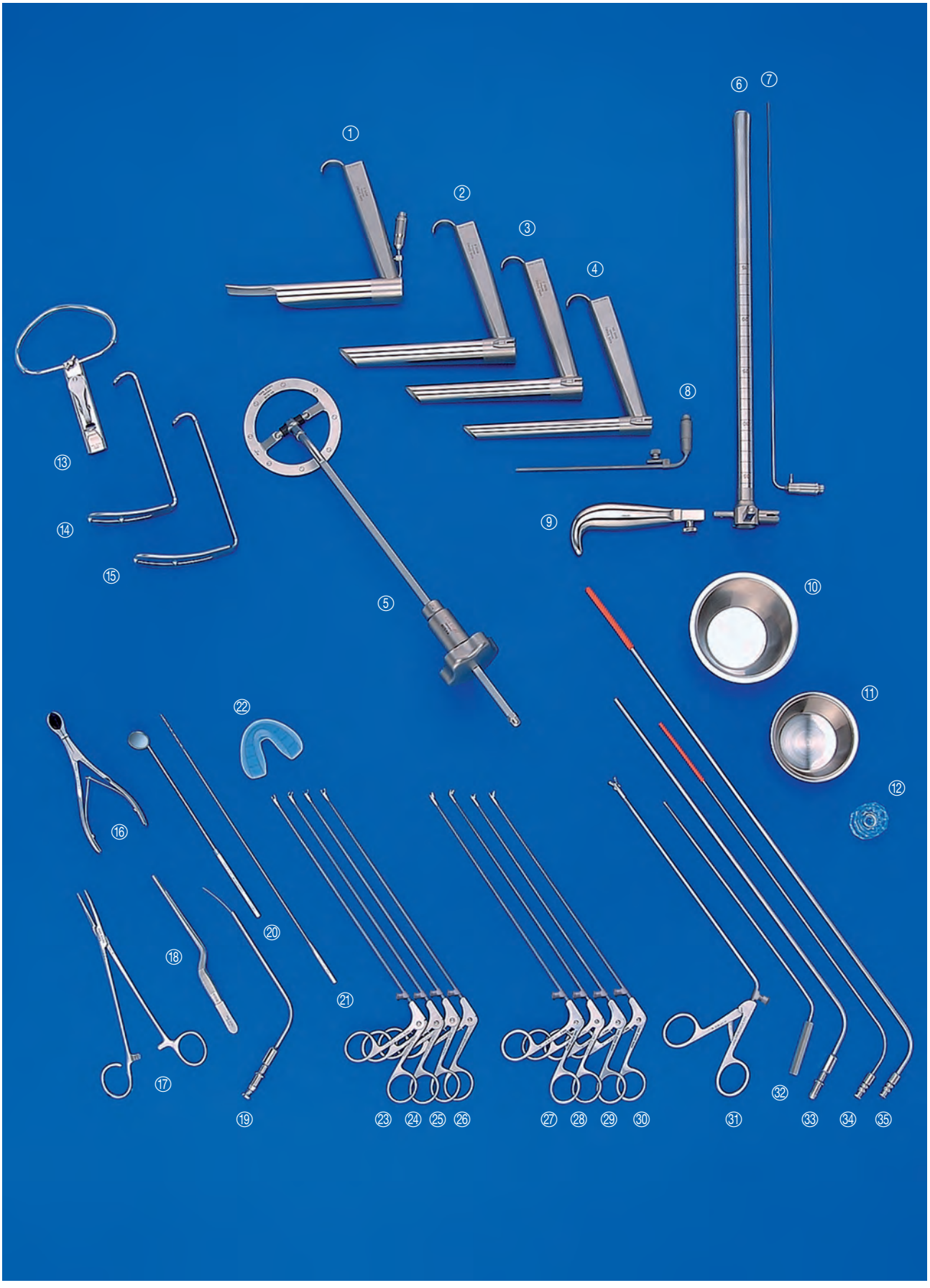
Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
39752 A2 **Sterilization Container,** with MicroStop®
39763 A2 **Coding Label**
39762 D2 **Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

3-00i

Basic Panendoscopy Set



12-08

Basic Panendoscopy Set

①	8575 C	RIECKER **Laryngoscope,** slotted, adult size, with Fiber Optic Light Carrier 8575 CF
②	8590 B	KLEINSASSER **Operating Laryngoscope,** large, length 17 cm
③	8590 C	KLEINSASSER **Operating Laryngoscope,** medium, length 17 cm (most commonly used model)
④	8590 DN	KLEINSASSER **Operating Laryngoscope,** small, length 18 cm (for particularly difficult anatomical circumstances)
⑤	8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model including: **Laryngoscope Holder,** GÖTTINGEN model, with adjustment wheel **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
⑥	12060 AV	ROBERTS-JESBERG **Esophagoscope,** oval, size 12 x 16, length 40 cm, for use with Fiber Optic Light Carrier 12061 AV and/or Prismatic Light Deflector 10101 FA
⑦	12061 AV	**Fiber Optic Light Carrier,** for use with esophagoscopes, length 40 cm
⑧	8590 GF	**Fiber Optic Light Carrier,** for distal illumination, working length 14 cm
	495 UD	**Fiber Optic Light Cable,** with straight connector, 2x diameter 3.5 mm, length 180 cm, for simultaneous light transmission for 2 instruments (not illustrated)
⑨	12070	**Handle**
⑩	810820	**Cup Medicine,** 200 ccm, diameter 100 mm, height 50 mm
⑪	810810	**Cup Medicine,** 100 ccm, diameter 80 mm, height 30 mm
⑫	818500	**Medicine Dish,** glass, diameter 32 mm, colored
⑬	744600	McIVOR **Mouth Gag,** with removable bow for replacement of rubber tube
⑭	744303	**Tongue Blade,** WÜRZBURG model, slotted, size 3
⑮	744304	**Same,** size 4
⑯	400500	HARTMANN **Nasal Speculum,** for adults, length 13 cm
⑰	754719	SCHNIDT **Forceps,** slightly curved, serrated, length 19 cm
⑱	426516	JANSEN **Nasal Dressing Forceps,** bayonet-shaped, length 16.5 cm
⑲	204810	FERGUSON **Suction Tube,** with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
⑳	769905	**Laryngeal Mirror,** with unscrewable hexagonal handle, size 5
㉑	8596 W	**Cotton Applicator,** straight, working length 25 cm
㉒	8575 QS	**Teeth Protector, silicone, autoclavable**
㉓	8591 A	KLEINSASSER **Cutting Forceps,** straight, with 2 mm cupped jaws, working length 23 cm
㉔	8591 B	**Same,** curved upwards
㉕	8591 C	**Same,** curved to right
㉖	8591 D	**Same,** curved to left
㉗	8594 A	KLEINSASSER **Scissors,** straight, working length 23 cm
㉘	8594 B	**Same,** angled 45°
㉙	8594 C	**Same,** curved to right
㉚	8594 D	**Same,** curved to left
㉛	8591 P	**Cutting Forceps,** with round 5 mm cupped jaws, robust model, double action jaws, sheath diameter 2.5 mm, working length 23 cm
㉜	8596 D	**Laryngeal Probe,** straight, sheath angled, round handle, working length 23 cm
㉝	10380 AK	**Suction Tube,** diameter 4 mm, working length 35 cm
㉞	10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
㉟	10381 A	**Suction Tube,** with rubber tip, straight, diameter 4 mm, working length 50 cm

Accessories recommended for containers (not illustrated):

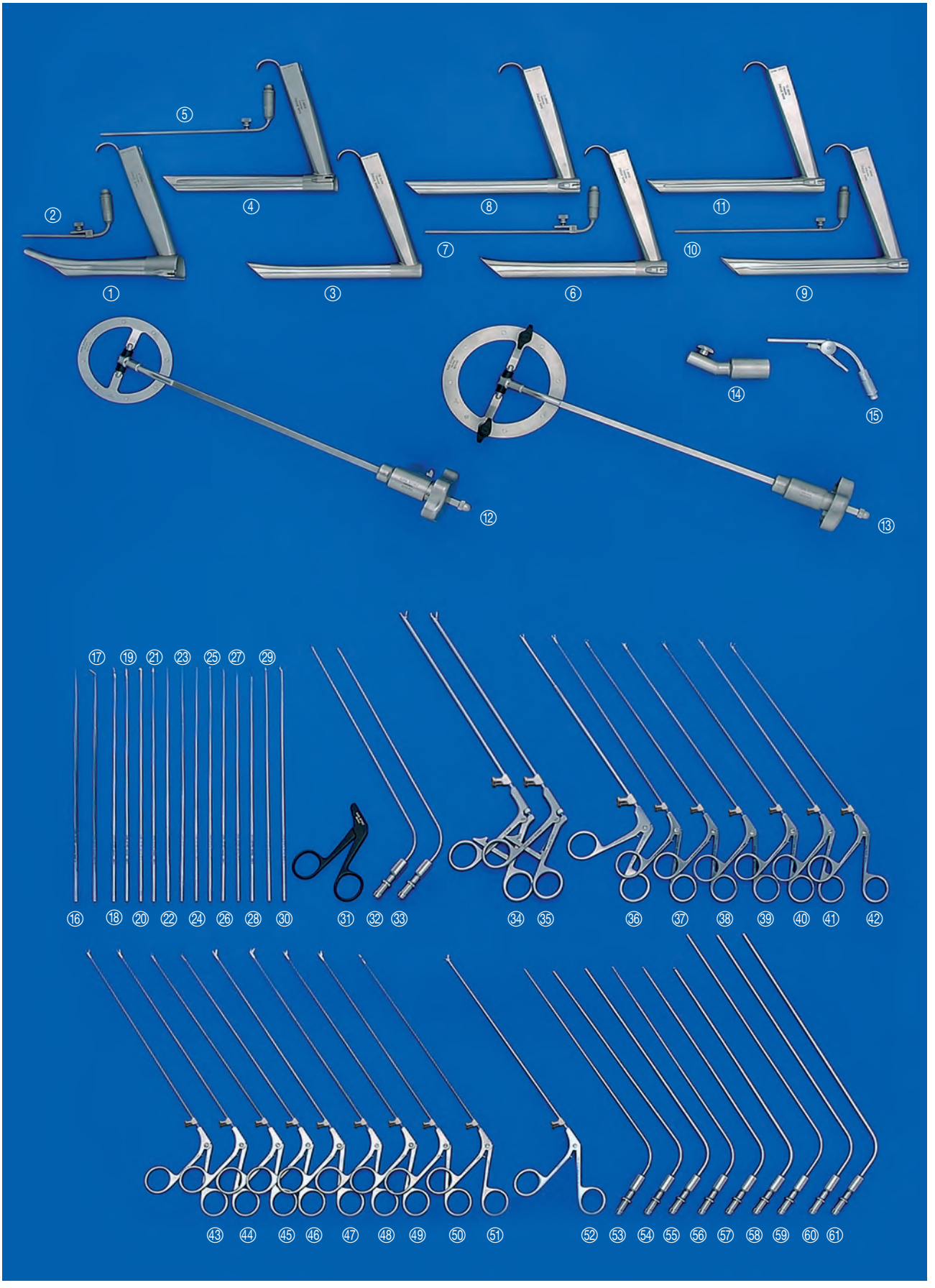
2x	39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
	39753 A2	**Sterilization Container,** with MicroStop®
	39763 A2	**Coding Label**
	39762 D2	**Color Tab,** blue

Further accessories for cleaning and sterilization see catalog HYGIENE

12-08

WOO/SHAPSHAY/OSSOFF **Microsurgical Instrument Set for Phonosurgery**

KARL STORZ — ENDOSKOPE



8-942

WOO/SHAPSHAY/OSSOFF **Microsurgical Instrument Set for Phonosurgery**

KARL STORZ — ENDOSKOPE

①	8587 A	LINDHOLM **Operating Laryngoscope,** length 15 cm
②	8587 GF	**Fiber Optic Light Carrier,** for use with Laryngoscope 8587 A
③	8574 SL	BENJAMIN **Slimline Operating Laryngoscope and Subglottiscope,** for adults, length 17 cm
④	8589 C	RUDERT **Anterior Commissure Laryngoscope,** medium, universal size, triangular spatula shaped, length 17 cm
⑤	8574 LF	**Fiber Optic Light Carrier,** length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA
⑥	8590 J	KLEINSASSER **Operating Laryngoscope,** for anterior commissure, length 18 cm
⑦	8590 GF	**Fiber Optic Light Carrier,** for use with Laryngoscopes 8590 B – JN
⑧	8590 C	KLEINSASSER **Operating Laryngoscope,** medium, length 17 cm
⑨	8590 JA	KLEINSASSER **Laryngoscope,** length 18 cm, for anterior commissure
⑩	8574 LF	**Fiber Optic Light Carrier,** length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA
⑪	8590 CL	KLEINSASSER **Laryngoscope,** length 17 cm
⑫	8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm
⑬	8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support**
⑭	8575 V	**Extension,** GRONINGEN model, for enlargement of opening angle of support rod for overweight patients
⑮	497 AC	**Clip,** for proximal illumination
⑯	8693 A	**Probe,** straight, diameter 1 mm
⑰	8693 B	**Same,** angled 45°
⑱	8656 A	**Sickle Knife,** curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm
⑲	8656 B	**Same,** straight cutting
⑳	8656 C	**Round Knive,** vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉑	8656 D	**Lancet Knife,** straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉒	8656 E	**Needle,** straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉓	8656 F	**Hook 90°,** 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉔	8656 G	**Same,** 2 mm
㉕	8656 J	**Dissector,** straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm
㉖	8656 L	**Elevator,** slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉗	8656 LS	**Same,** sharp tip
㉘	8656 N	**Same,** angled 15°
㉙	8656 R	**Curette,** oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm
㉚	8656 S	**Same,** angled 35°
㉛	8657 H	**Universal Handle,** forceps shape, with 2 handle rings, length 9 cm
㉜	8656 VL	**Suction Elevator,** angular, with grip plate and cut-off hole, working length 21 cm, total length 23 cm
㉝	8656 VR	**Same,** curved to right
㉞	8659 C	FEHLAND **Needle Holder,** angled 90° to right, working length 20 cm
㉟	8659 D	**Same,** angled to left
㊱	8660 P	KLEINSASSER **Needle Holder,** straight, working length 20 cm
㊲	8681 A	**Micro Forceps,** straight, with 1 mm cupped jaws, working length 20 cm
㊳	8681 B	**Same,** curved upwards
㊴	8681 C	**Same,** curved to right
㊵	8681 D	**Same,** curved to left
㊶	8683 A	**Micro Grasping Forceps,** straight, serrated, working length 20 cm
㊷	8683 B	**Same,** curved upwards
㊸	8683 C	**Same,** curved to right
㊹	8683 D	**Same,** curved to left
㊺	8683 G	SHAPSAY-PERETTI **Micro Grasping Forceps,** curved upwards to right, working length 20 cm
㊻	8683 H	**Same,** curved upwards to left
㊼	8684 A	**Micro Scissors,** straight, working length 20 cm
㊽	8684 B	**Same,** curved upwards
㊾	8684 C	**Same,** curved to right
㊿	8684 D	**Same,** curved to left
51	8686 A	**Micro Grasping Forceps,** staight, hollowed jaws, serrated tips, opens horizontally to right, working length 20 cm
52	8687 A	**Micro Alligator Forceps,** both jaws open vertically, with suction channel to remove LASER vapors, working length 20 cm
53	8691 A	**Suction Tube,** with cut-off hole, tip with central opening, outer diameter 1 mm
54	8691 B	**Same,** outer diameter 1.5 mm
55	8691 C	**Same,** outer diameter 2 mm
56	8692 A	**Suction Tube,** with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm
57	8692 B	**Same,** outer diameter 1.5 mm
58	8692 C	**Same,** outer diameter 2 mm
59	8602	KLEINSASSER **Suction Tube,** outer diameter 2 mm
60	8603	**Same,** outer diameter 2.5 mm
61	8604	**Same,** outer diameter 3 mm

Accessories recommended for containers (not illustrated):

2x 39502 Z	**Wire Tray for Cleaning, Sterilization and Storage**
39753 A2	**Sterilization Container,** with MicroStop®
39763 A2	**Coding Label**
39762 D2	**Color Tab,** blue

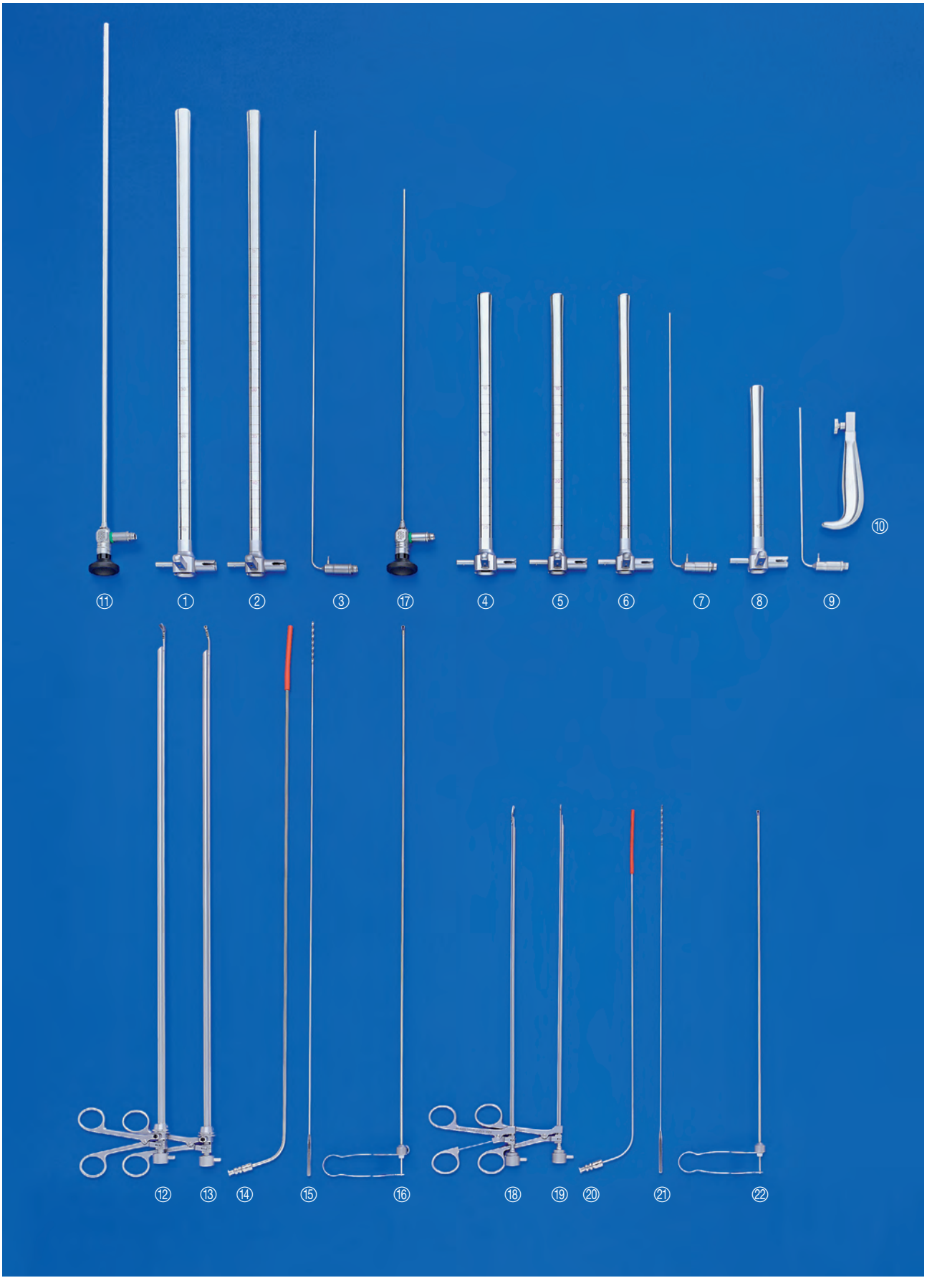
Further accessories for cleaning and sterilization
see catalog HYGIENE

8-94$_{3}$

Esophagoscopy Adult Set

Basic Set

KARL STORZ — ENDOSKOPE



8-11

Esophagoscopy Adult Set

Basic Set

KARL STORZ — ENDOSKOPE

①		12060 A	ROBERTS-JESBERG **Esophagoscope,** oval, size 12 x 16, length 50 cm
②		12060 C	**Same,** size 10 x 14
③		12061 A	**Fiber Optic Light Carrier,** for use with esophagoscopes, length 50 cm
④		12060 B	ROBERTS-JESBERG **Esophagoscope,** oval, size 12 x 16, length 30 cm
⑤		12060 D	**Same,** size 10 x 14
⑥		12060 F	**Same,** size 8 x 12
⑦		12061 B	**Fiber Optic Light Carrier,** for use with esophagoscopes, length 30 cm
⑧		12060 S	ROBERTS-JESBERG **Hypopharyngoscope,** oval, size 10 x 14, length 20 cm
⑨		12061 C	**Fiber Optic Light Carrier,** for use with hypopharyngoscopes, length 20 cm
⑩		12070	**Handle,** for esophagoscopes

Recommended accessories for esophagoscopes with a length of 50 cm

⑪		12015 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 53 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
⑫		12016 M	**Optical Forceps,** alligator, large jaws, for hard foreign bodies
⑬		12016 L	**Optical Forceps,** spoon-shaped, round, for biopsy
⑭		10381 AL	**Suction Tube,** with rubber tip, straight, diameter 4 mm, working length 55 cm
⑮	3x	10384 AL	**Cotton Carrier,** working length 55 cm
⑯		10387 AL	**Sponge Holder,** with spring handle, working length 55 cm

Recommended accessories for esophagoscopes with a length of 30 and 20 cm

⑰		10324 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
⑱		10378 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
⑲		10378 L	**Optical Forceps,** spoon-shaped, for biopsy
⑳		10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
㉑	3x	10384 B	**Cotton Applicator,** working length 35 cm
㉒		10387 B	**Sponge Holder,** with spring handle, working length 35 cm

Recommended Wire Trays (not illustrated):

39501 BR **Wire Tray for Cleaning, Sterilization and Storage,** of telescopes and accessories for bronchoscopy

39501 ES **Wire Tray for Cleaning, Sterilization and Storage,** of instruments and accessories for bronchoscopy and esophagoscopy

Further accessories for cleaning and sterilization see catalog HYGIENE

8-11

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

KARL STORZ — ENDOSKOPE



8-11

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

①		10324 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
②		12030 A	**Esophagoscope Tube,** size 6, length 30 cm
③		12030 B	**Same,** size 5
④		12030 C	**Same,** size 4
⑤		10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
⑥		10338 N	**Rubber Telescope Guide,** for use with telescopes and optical forceps
⑦		10378 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
⑧		10378 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
⑨		10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
⑩	3x	10384 B	**Cotton Applicator,** working length 35 cm
⑪		10387 B	**Sponge Holder,** with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

39753 A2 **Sterilization Container,** with MicroStop®
39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**
39100 S **Large Diamond Grid Silicone Insert**
39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE

8-11

Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

KARL STORZ — ENDOSKOPE



8-11

Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

KARL STORZ — ENDOSKOPE

①		10320 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
②		10320 BA	**HOPKINS® Forward-Oblique Telescope 30°,** diameter 5.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
③		10318 B	**Universal Bronchoscope,** size 8.5, length 43 cm
④		10318 C	**Same,** size 7.5
⑤		10318 D	**Same,** size 6.5
⑥		10315 P	FLUVOG **Adaptor,** with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
⑦		10924 D	**Adaptors,** to respirator
⑧		10318 S	**Instrument Guide,** for suction catheter
⑨		10318 K	**Injection Cannula,** for positive pressure assisted ventilation, LUER-Lock, outer diameter 3.5 mm, for use with Bronchoscopes 10318 B/C/D
⑩		10350 HF	**Optical Forceps,** alligator, for hard foreign bodies, large jaws, with spring-action handle
⑪		10350 KF	**Optical Forceps,** for peanuts and soft foreign bodies, with spring-action handle
⑫		10350 L	**Optical Biopsy Forceps,** spoon-shaped, round, for biopsy
⑬	3x	10384 A	**Cotton Carrier,** working length 50 cm
⑭		10387 A	**Sponge Holder,** with spring handle, working length 50 cm
⑮		10381 A	**Suction Tube,** with rubber tip, straight, diameter 4 mm, working length 50 cm
⑯		10382 A	**Suction Tube,** with rubber tip, curved, diameter 4 mm, working length 50 cm

Recommended Wire Trays (not illustrated):

39501 BR **Wire Tray for Cleaning, Sterilization and Storage,** of telescopes and accessories for bronchoscopy

39501 ES **Wire Tray for Cleaning, Sterilization and Storage,** of instruments and accessories for bronchoscopy and esophagoscopy

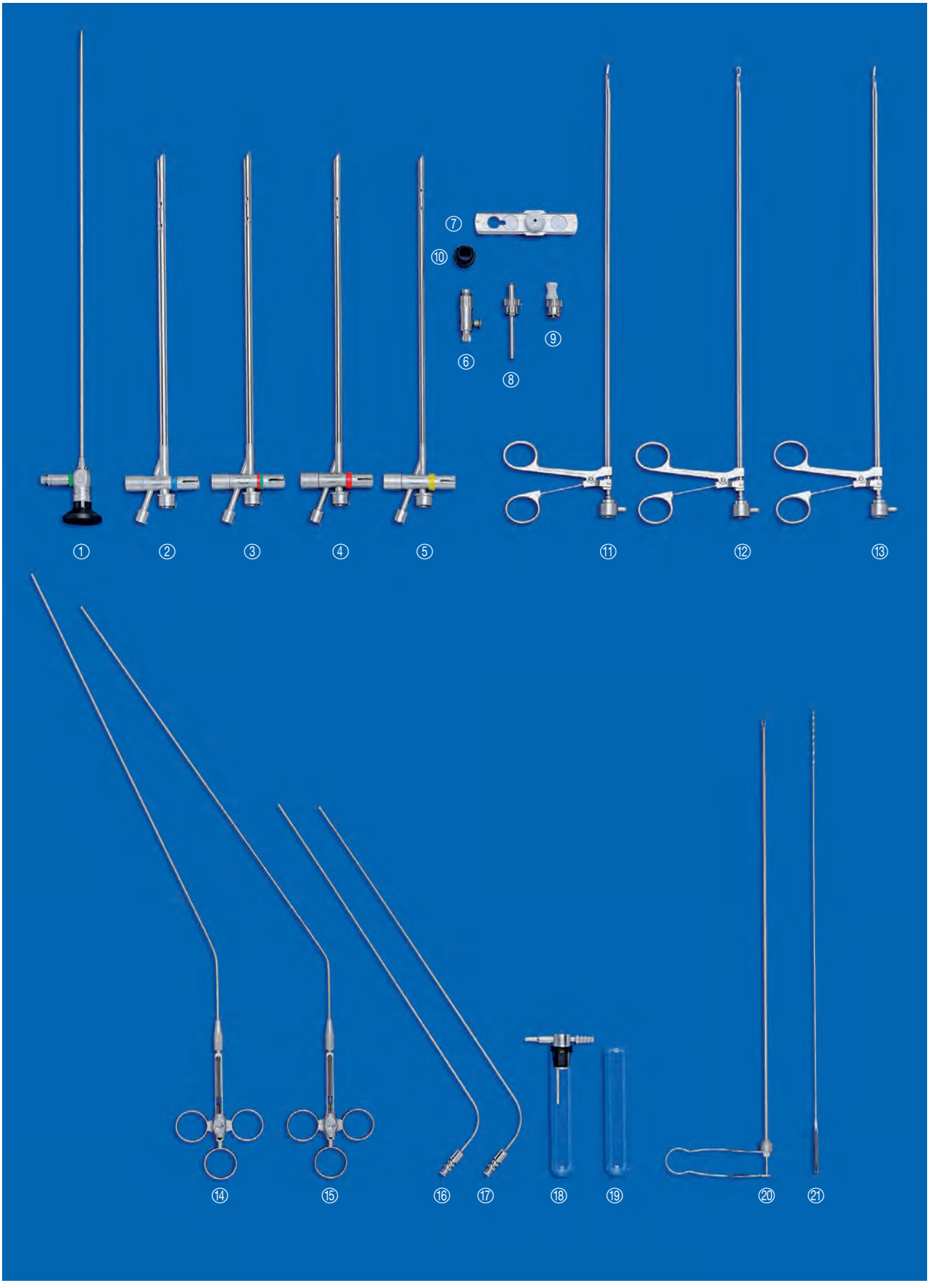
Further accessories for cleaning and sterilization see catalog HYGIENE

8-11

Basic Bronchoscopy Pediatric Set with Proximal Illumination

Basic Set

KARL STORZ — ENDOSKOPE



8-94₂

Basic Bronchoscopy Pediatric Set with Proximal Illumination

Basic Set

①		10324 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
②		10339 A	DOESEL-HUZLY **Bronchoscope,** size 6, length 30 cm
③		10339 BB	**Same,** size 4.5
④		10339 C	**Same,** size 4
⑤		10339 CD	**Same,** size 3.5
⑥		10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
⑦		10338 P	FLUVOG **Adaptor,** with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
⑧		10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
⑨		10338 S	**Guide Piece,** for suction catheter, short, for bronchoscopes for children and infants
⑩		10924 D	**Adaptor,** for respirator
⑪		10378 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
⑫		10378 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
⑬		10378 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
⑭		10386 B	**Foreign Body Basket,** with ring handle, working length 35 cm
⑮		10389 B	**Cytology Brush,** with ring handle, working length 35 cm
⑯		10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
⑰		10382 B	**Suction Tube,** with rubber tip, curved, diameter 2 mm, working length 35 cm
⑱		10432 N	**Aspirator,** for collecting secretions, can be connected to suction tubes or suction catheters
⑲	2x	10432 E	**Spare Glass,** for Aspirator 10432 N
⑳	2x	10384 B	**Cotton Applicator,** working length 35 cm
㉑		10387 B	**Sponge Holder,** with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

39753 A2 **Sterilization Container,** with MicroStop®
39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**
39100 S **Large Diamond Grid Silicone Insert**
39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE

8-94$_2$



LARYNGOSCOPY
TRACHEOSCOPY

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

KARL STORZ — ENDOSKOPE

Special Features:

- Large viewing angle and movable distal tip facilitates orientation
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Excellent optical quality – of both lens system and video chip
- Superior life span due to robust mechanical design
- Sensitive and stable control via ergonomic handle
- Short insertion tip with smooth-running and non-twisting angle mechanism
- Optimally matched, non-rotational insertion sheath



3-07₂

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

KARL STORZ — ENDOSKOPE



11101 VP/VN

11101 VP	**CCD Video Rhino-Laryngoscope, PAL,** for use with IMAGE1, TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X	
	Direction of view:	0°
	Angle of view:	85°
	Deflection up/down:	140°/140°
	Working length:	30 cm
	Outer diameter:	3.7 mm
11101 VN	**Same,** color system **NTSC**	

Following accessories are included:

27677 VC	**Case**
13242 XL	**Leakage Tester,** with bulb and manometer
11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

22 2000 77	**Video Endoscope Adaptor,** color systems **PAL/NTSC,** length 90 cm, for use with GI CCU and IMAGE1
	or
22 2001 77	**IMAGE1 Video Endoscope Adaptor,** color system **NTSC,** length 90 cm, for use with all KARL STORZ video endoscopes
20 2130 70	**Video Connecting Cable,** for all KARL STORZ video endoscopes and TELECAM SL II, TELECAM DX II, TELE PACK or TELE PACK X, length 60 cm

3-07$_3$

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Rhino-Laryngoscope

KARL STORZ — ENDOSKOPE

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source.

Consideration has also been given to documentation: Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Crystal clear display

- **15" LCD display**
- **Image rotation**
- **24-bit color intensity for natural color rendition**
- **DVI-D video output for connecting HD monitors**

Flexible storage possibilities

- **SD card slot for high storage capacity**
- **USB ports for external hard drives, USB flash drives and post-script printers**
- **Picture gallery for records**
- **Playback of saved videos**
- **Print-ready patient report documentation**

Natural illumination

- **HiLux 50 Watt high-performance light source**
- **Natural colour rendition close to daylight with a color temperature of 5700 K**
- **Up to 1000 hours lamp operating time**

Easy control combined with highest safety

- **Membrane keyboard for wipe-down disinfection**
- **Hot keys for rapid and direct adjustment**
- **Arrow keys for intuitive control**
- **Connection socket for pedal control**

Additional information

- **Sturdy, portable housing**
- **Ergonomically designed handle for convenient transport**
- **Universal power supply unit: 100 – 240 VAC, 50/60 Hz**
- **Dimensions (w x h x d): 450 x 350 x 150 mm**
- **Weight: 7 kg**



20 045001-EN

20 0450 01-EN **TELE PACK X**

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC,** with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

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Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Laryngo-Fiberscopes

Special Features:

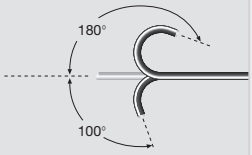
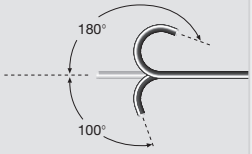
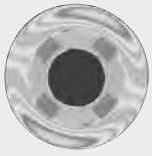
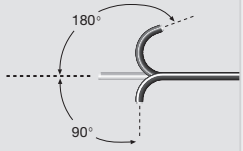
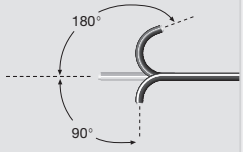
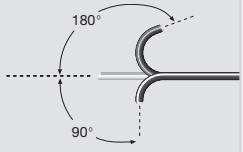
- **Large viewing angle and movable distal tip for better orientation**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Simple leakage test takes only a few minutes and requires no additional accessories.**
- **Sterilizable with EtO-Gas, Steris® and Sterrad®**
- **Exceptional optical quality of both lens and fiber optic image transmission bundle**
- **Resistant construction and robust mechanical components ensure long life of the instrument**



3-99$_{1}$

Laryngo-Fiberscopes

Overview

Laryngo-Fiberscopes	Order No.		Deflection	Direction of View	Angle of View
3.5 x 340 mm 	11001 RD			0°	90°
5 x 230 mm 	11001 UD			0°	110°
3.5 x 300 mm 	11101 RP			0°	70°
2.5 x 270 mm 	11101 SK			0°	90°
2.5 x 370 mm 	11101 SP			0°	90°

Accessories included:



27677 BB	**Case**
27677 RR	**Case**
11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization
13242 XL	**Leakage Tester,** with bulb and manometer
13272	**Mouthpiece**

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Working Length	Working Channel Inner Diameter	Distal End Outer Diameter	Case	Accessories (included)					
				Pressure Compensation Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
34 cm	1.5 mm	3.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 KA	11003 KB
23 cm	2.3 mm	5.2 mm	27677 RR	11025 E	13242 XL	13272	27651 B	11001 SL	11002 SS
30 cm	–	3.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
27 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
37 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–

Accessories included:



27651 AK **Cleaning Brush,** round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm



27651 B **Cleaning Brush,** flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm



11003 KA **Biopsy Forceps,** flexible, double action jaws, oval, diameter 1 mm, length 60 cm

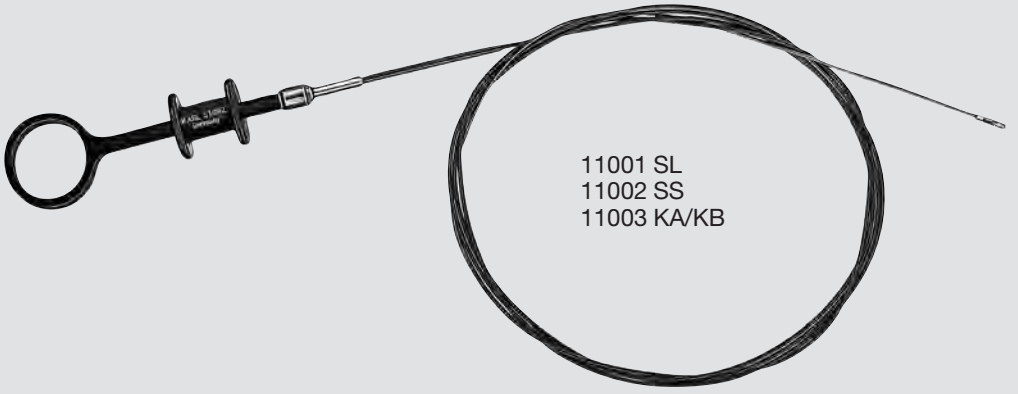
11001 SL **Biopsy Forceps,** flexible, double action jaws, oval, 5 Fr., length 60 cm

11003 KB **Grasping Forceps,** flexible, double action jaws, diameter 1 mm, length 60 cm

11002 SS **Grasping Forceps,** flexible, double action jaws, diameter 1.7 mm, length 60 cm

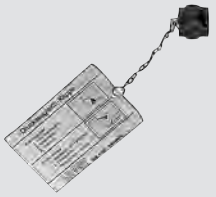
3-07

Additional Accessories for Laryngo-Fiberscopes



Forceps, Grasping and Biopsy, flexible for Laryngo-Fiberscopes:

Distal Tip	Order No.	Article Description	Diameter	Length
	11003 KA	**Biopsy Forceps,** double action jaws, oval	1 mm	60 cm
	11001 SL		1.7 mm	60 cm
	11003 KB	**Grasping Forceps,** double action jaws	1 mm	60 cm
	11002 SS		1.7 mm	60 cm



11025 E



13242 XL

13242 XL **Leakage Tester,** with bulb and manometer

11025 E **Pressure Compensation Cap,** for ventilation during gas sterilization

3-07

To freeze the moment



3-07

KARL STORZ Stroboscope PULSAR II NEW

With its high-performance LED, the stroboscope PULSAR II generates light for convenient stroboscopy. The frequency of the pulsating light can also be set to continuous light so that it can be used as a position light.

Convenient image documentation involves connecting a camera head to the respective telescope in conjunction with the KARL STORZ documentation system.

The system offers the following features and benefits:

- **Compact unit and footswitch design**
- **Low energy consumption and no lamp change required thanks to cutting-edge LED technology**
- **No difference between strobe and continuous light in terms of brightniess and color temperature**
- **Powerful flash even with thin and flexible endoscopes**
- **No noise generation**
- **Lightweight**
- **Text overlay on video image possible**
- **Display in musical notation**



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KARL STORZ Stroboscope PULSAR II NEW

System components included:

- **LED light source with integrated microphone: In a microphone integrated in the handle, the audio signal is recorded, amplified and analyzed to then synchronize the stroboscope with vocal fold vibration.**
- **Contact microphone: Alternatively, the contact microphone can be used to perform the functions described above.**
- **Footswitch: The footswitch controls phase synchronization in still image mode and slow motion function. It can also be used to control the optional documentation unit.**

Additionally available system components

- **Camera Control Unit (CCU) and camera heads from KARL STORZ**
- **Documentation units from KARL STORZ**
- **Audio equipment for amplification or recording**
- **KARL STORZ monitors**

The system components described above feature these additional functions:

- **Automatic brightness control**
- **Text/data overlay to video image**



40 1601 01 **PULSAR II Stroboscope Set,** power supply 100 – 240 V, 50/60 Hz
including:
Mains Cord
LED Stroboscopy Light Source
Footswitch
Contact Sound Microphone, with clip

Specifications:

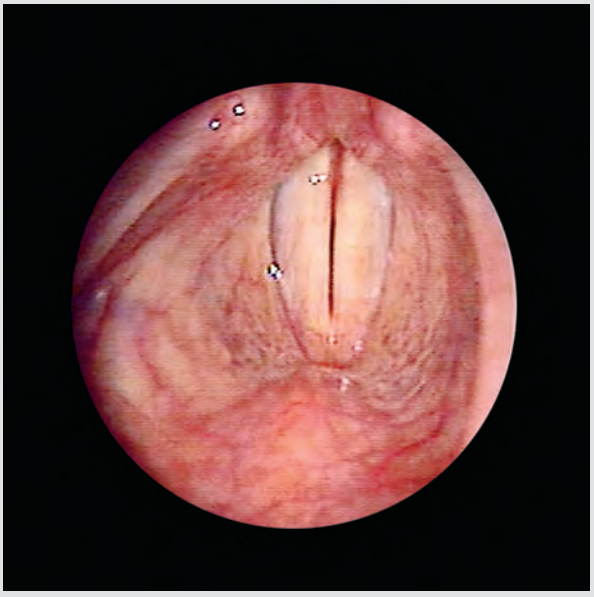
Power Supply	100-240 V, 50/60 Hz
Dimensions w x h x d	305 x 74 x 233 mm
Weight	2.5 kg
Certified to	IEC 601-1, CE acc. to MDD
Power Input	20 VA
Flash light energy level	2.5 Ws (pulse energy)
Triggerable frequency	80 – 1400 Hz

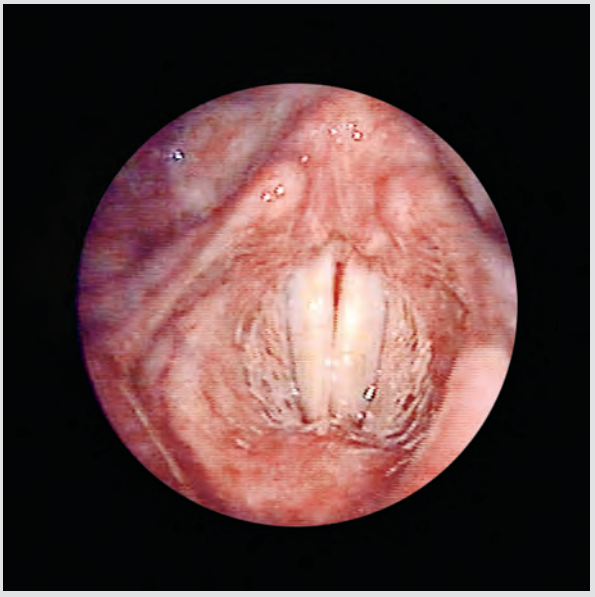
Slow motion frequency	0.5 – 2.5 Hz
Phase shift	0 – 360°
Flash performance	3.5 Ws
Protection class	I
Operating Temperature	10° – 40°
Humidity	5% – 95%
Temperature	20° – 60°
Classification	IIa

Components/Spare Parts see chapter 16

KARL STORZ µ-PULSAR

Striking detail





With the sensationally handy µ-PULSAR, the smallest miniature stroboscopy unit in the world, KARL STORZ offers an “all-in-one” concept for laryngology.

“All-in-one” because, in addition to stroboscopy, it can also be used for documentation; the features of large, cumbersome stroboscopes are complemented by the mobile version; and it’s even considerably more cost-efficient.

Image documentation can normally be carried out by connecting a camera head to the respective telescope in conjunction with the KARL STORZ TELE PACK.

The system, which is based on state-of-the-art microsystem and semiconductor light source technology, can be connected directly to KARL STORZ laryngoscopes independent of the power supply. One of the most important advantages of the power system is therefore its mobility. The small, lightweight and compact KARL STORZ µ-PULSAR can easily be carried in a lab coat and breast pockets or stored in any drawer.

Quality/comfort:
- **Simple, ergonomic use**
- **Lightweight (180 g)**
- **Powerful LED ensures outstanding brightness**

Unrestricted mobility:
- **Compact, small, lightweight and portable**
- **Simple charging system**
- **Device locks directly onto the endoscope’s light port**

Operative efficiency:
- **Considerably more cost-efficient to purchase than a larger system**
- **Low energy consumption**
- **No need to change lamp**

3-07

KARL STORZ µ-PULSAR

Special Features:

- **Easy to operate**
- **Very good image quality**
- **Noiseless**
- **Documentation possible**
- **Robust housing**
- **Ideal for consultation work**
- **Lightweight**
- **High light intensity**
- **No separate light source required**
- **No separate light cable required**
- **Rechargeable lithium-ion batteries free from memory effect**
- **All KARL STORZ loupe laryngoscopes can be used**



40 1500 20

40 1500 01 **KARL STORZ µ-PULSAR,** for laryngeal stroboscopy including:

NEW **Leather Bag for µ-PULSAR**

3-07

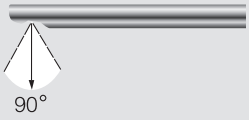
Components/Spare Parts see chapter 16

HOPKINS® Telescopes

for Laryngo-Pharyngoscopy

Direction of View 90°

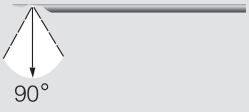




8700 DKA **Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°, diameter 5.8 mm, length 20 cm, **autoclavable,** fiber optic light transmission incorporated, color code: blue

8700 H **Handle,** for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA





8707 DA **Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable,** fiber optic light transmission incorporated, color code: blue

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Please note: For instruments for indirect laryngoscopy see pages 359-362

HOPKINS® Telescopes

for Laryngo-Pharyngoscopy

KARL STORZ — ENDOSKOPE

Direction of view 70°



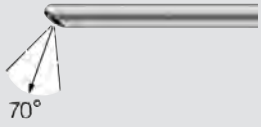




8700 CKA — BENAMIN **Tele-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 5.8 mm, length 19 cm, **autoclavable,** fiber optic light transmission incorporated, color code: yellow

8700 H — **Handle,** for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA

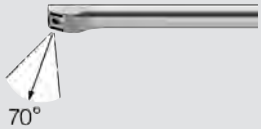




8705 CKA — BENJAMIN **Slimline Tele-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: yellow

8700 H — **Handle,** for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA





8706 CA — **Strobo-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°, oval sheath, 7.2 x 9.3 mm, working length 17 cm, **autoclavable,** fiber optic light transmission incorporated, color code: yellow

3-99

Please note: For instruments for indirect laryngoscopy see pages 359-362

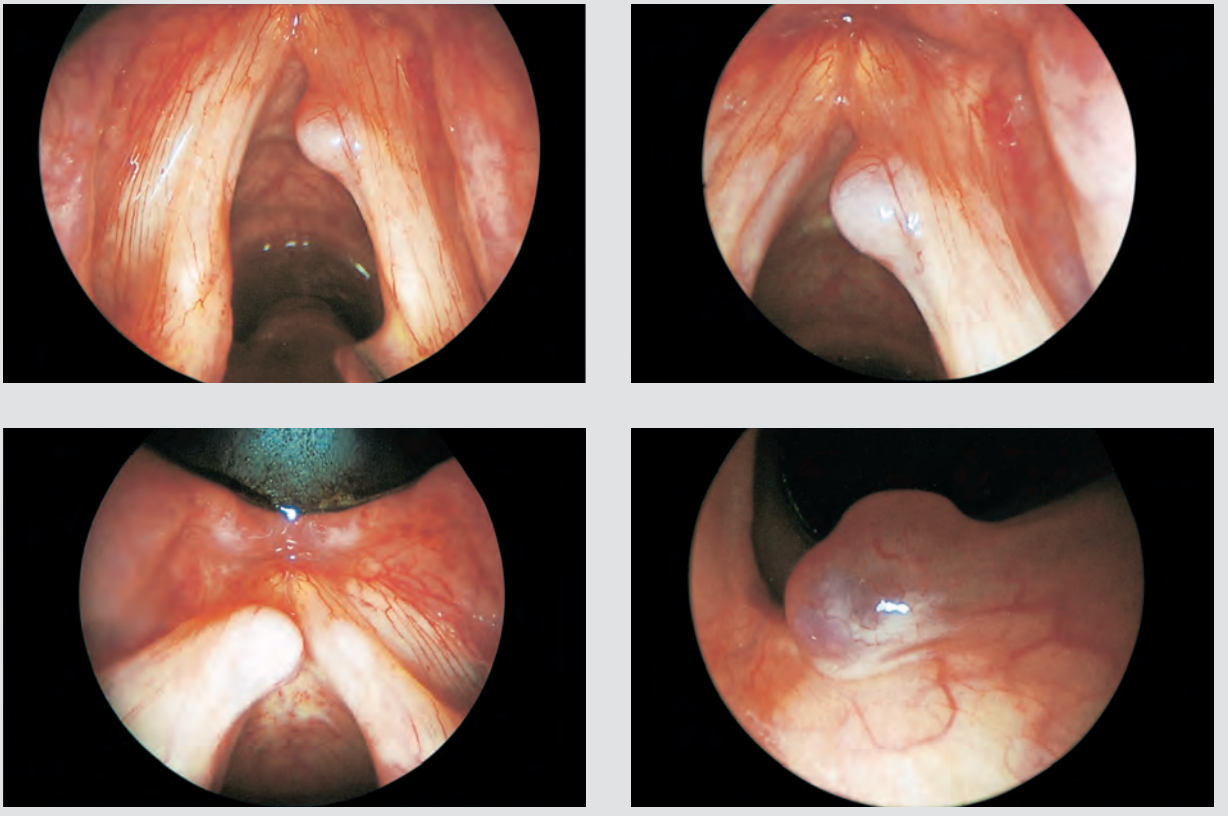
Rigid Endoscopy associated with Microlaryngeal Surgery (REMS)

Prof. ANDREA **and** Prof. DIAS

KARL STORZ — ENDOSKOPE

Endoscopic procedures in general, including techniques carried out in the office and microlaryngoscopy, only enable the observation of the larynx along a vertical axis. This imposes limitations on the diagnosis and physiopathological interpretation of diseases, as well as on treatment and follow-up. Research work on laryngeal microanatomy conducted by the authors reinforced the need to assess the larynx from different perspectives in order to improve the evaluation of pathological findings. This led to the systematic use of rigid endoscopes with different angles of vision (0°, 30°, and 70°) during endotracheal intubation. **R**igid **E**ndoscopy associated with **M**icrolaryngeal **S**urgery (REMS) significantly enhances the ability to assess the larynx and offers high quality imaging, even of regions that are traditionally difficult to explore, such as the inferior surface and free border of the vocal cords, the anterior commissure, the ventricles and the subglottis. Parameters considered important for the evaluation of premalignant and malignant lesions can be analyzed in greater detail, due to the multiperspective assessment offered by the excellent optical quality of the HOPKINS® II telescopes REMS is also beneficial for the assessment of benign pathological indications of the vocal cords and for subsequent excision. REMS is easy to perform and, apart from the rigid telescopes which were specifically designed for this application, it requires no equipment other than that which is required for conventional laryngeal endoscopy.

Prof. M. ANDREA, M. D. and Prof. O. DIAS, M. D.,
Universidade de Lisboa, Servicio de Otorhinolaringologia,
Lisbon, Portugal



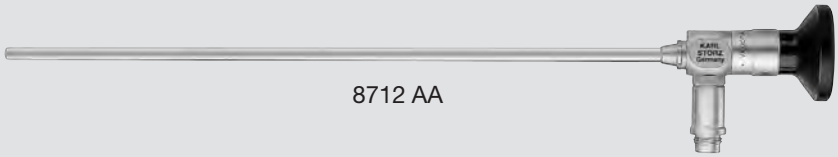
Multiperspective assessment of a vocal cord polyp using rigid endoscopes 8712 AA/BA/CA (0°, 30° and 70°). The diameter and length of these endoscopes allow observation of all regions of the larynx with regular endotracheal intubation.

4-95[1]

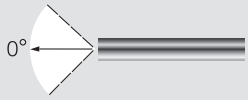
HOPKINS® II Telescopes

for Rigid Endoscopy associated with Microlaryngeal Surgery (REMS),
Prof. ANDREA **and** Prof. DIAS

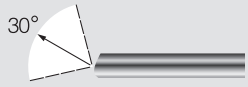
KARL STORZ — ENDOSKOPE



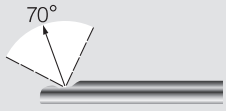
8712 AA



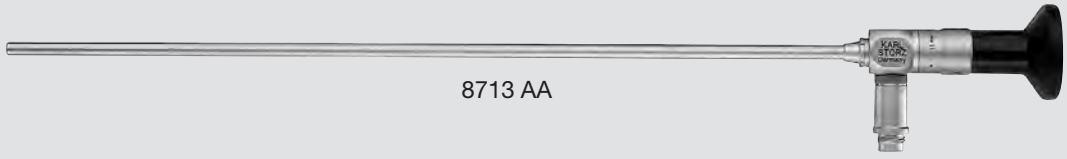
8712 AA — **HOPKINS® II Straight Forward Telescope 0º,**
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green



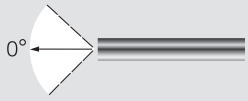
8712 BA — **HOPKINS® II Forward-Oblique Telescope 30º,**
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission incorporated,
color code: red



8712 CA — **HOPKINS® II Lateral Telescope 70º,**
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission incorporated,
color code: yellow



8713 AA



8713 AA — **HOPKINS® II Straight Forward Telescope 0º,**
enlarged view, diameter 5 mm, length 29 cm,
autoclavable, fiber optic light transmission incorporated,
color code: green

4-95₄

Accessories

for HOPKINS® Telescopes



15006 B



15006 C



15006 D

Antifog Solution

15006 B	"ULTRA STOP" **Antifog Solution,** 25 ml, pipette bottle
15006 C	"ULTRA STOP" **Antifog Solution,** 30 ml, sterile, pierce bottle
15006 D	"ULTRA STOP" **Antifog Solution,** 15 ml, atomizer bottle



Fiber Optic Light Cables

495 NL	**Fiber Optic Light Cable,** diameter 3.5 mm, length 180 cm
495 NA	**Same,** length 230 cm

Fluid Light Cables

495 FO	**Fluid Light Cable,** diameter 3 mm, length 180 cm
495 FP	**Same,** length 250 cm

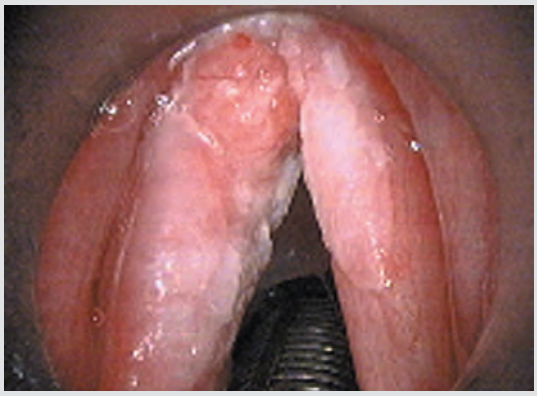
3-99$_2$

Trays for telescopes see catalog HYGINENE

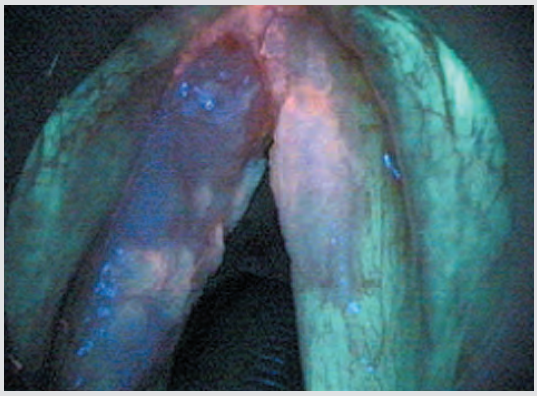
White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

Diagnosis:

White Light

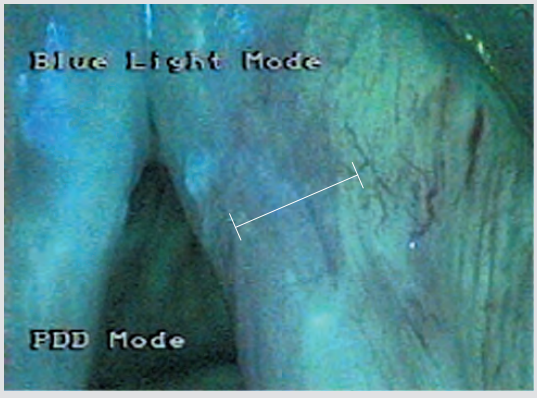


Autofluorescence



Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord









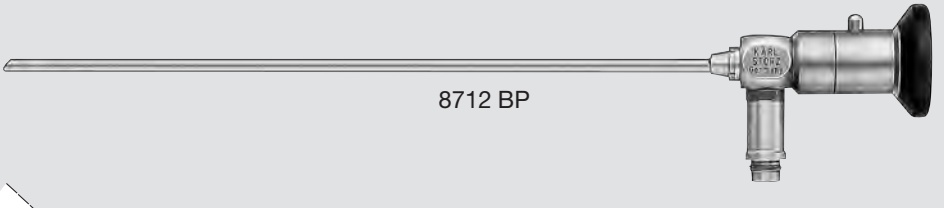
Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

11-03

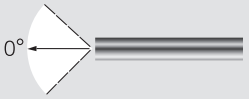
HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Direct Laryngo-Pharyngoscopy

KARL STORZ — ENDOSKOPE



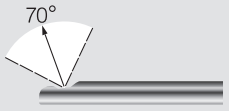
8712 BP



8712 AP — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

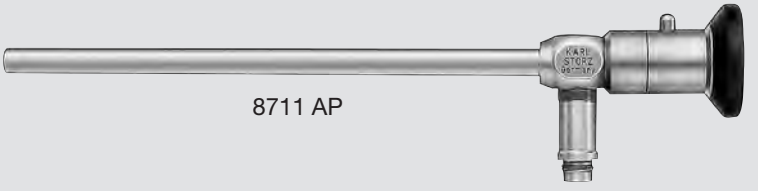


8712 BP — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: red

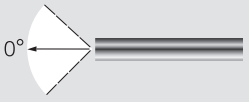


8712 CP — **HOPKINS® II Lateral Telescope 70°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP — **Fluid Light Cable,** diameter 3 mm, length 250 cm

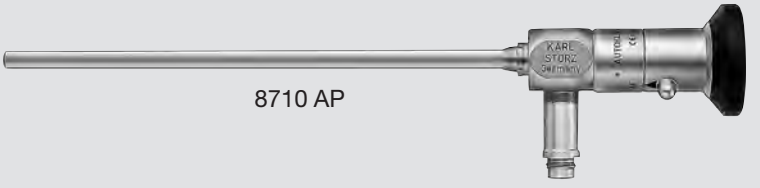


8711 AP

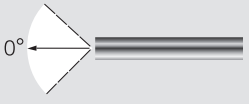


8711 AP — **HOPKINS® Straight Forward Telescope 0°,** for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR — **Fluid Light Cable,** diameter 5 mm, length 250 cm



8710 AP



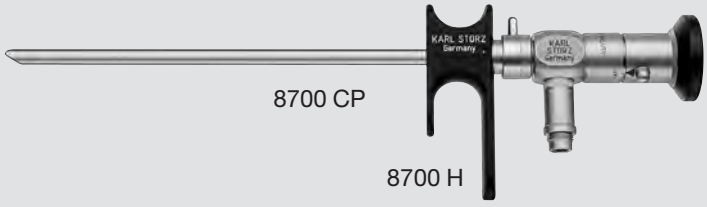
8710 AP — **HOPKINS® Straight Forward Telescope 0°,** for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR — **Fluid Light Cable,** diameter 5 mm, length 250 cm

11-03$_2$

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Indirect Laryngo-Pharyngoscopy

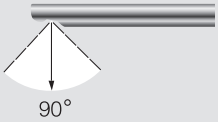




8700 CP **Tele-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated,
color code: yellow

8700 H **Handle,** for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA





8707 DP **Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable,** diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue

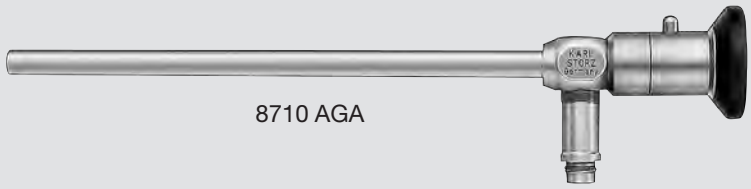
495 FP **Fluid Light Cable,** diameter 3 mm, length 250 cm

11-03

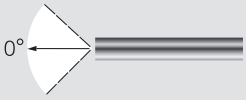
HOPKINS® Telescopes NEW

for ICG angiography

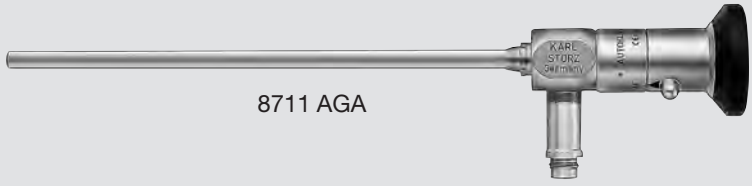
KARL STORZ — ENDOSKOPE



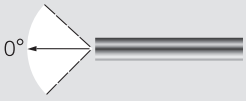
8710 AGA



8710 AGA **HOPKINS® Straight Forward Telescope 0°,** for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green



8711 AGA



8711 AGA **HOPKINS® Straight Forward Telescope 0°,** enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated,
color code: green

8-11

For further informationen and instruments for ICG angiography see chapter 13, FLUORESCENCE

HAVAS **Operating Laryngoscope** NEW

The HAVAS video laryngoscope from KARL STORZ is a significant step forward in endoscopic laryngeal surgery.

The HAVAS operating laryngoscope comprises the following components:

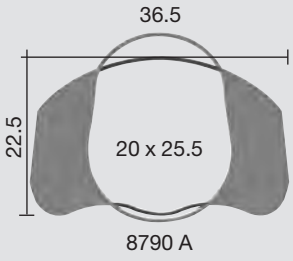
- Video laryngoscope
- Integrated light carrier/telescope holder
- Telescopic sheath protector

The laryngoscope enables an optimal visualization of the supraglottic and glottic airway. Furthermore, the angulation of the tip provides a view of areas that are difficult to see such as the anterior commissure and the anterior part of the laryngeal ventricles.

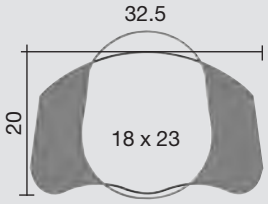
The cut-out lateral ports at the proximal end of the laryngoscope enables the introduction of standard instruments or the new malleable HAVAS **Laryngo***FIT*® instruments for microsurgery. This facilitates endoscopic bimanual surgery using a monitor rather than an operating microscope.

T. HAVAS
MB. BS (SYD), MD. (UNSW) FRCSE FRACS FACS
A/Professor Conjoint UNSW
Suite 506, 1 Newland Street
Bondi Junction, NSW, Australia

Dimensions in mm:
proximal and distal



8790 A



8790 B



8790 A/B

8790 A	HAVAS **Operating Laryngoscope,** with extra light handle, large model, length 17 cm, with connector for Light Carrier 497 HC
8790 B	HAVAS **Operating Laryngoscope**, with extra light handle, medium model, length 17 cm, with connector for Light Carrier 497 HC

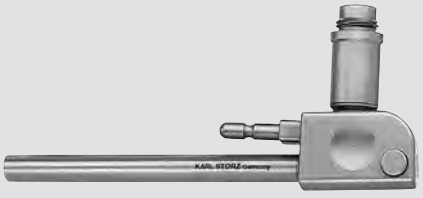
8-11

HAVAS **Operating Laryngoscope** NEW

Accessories

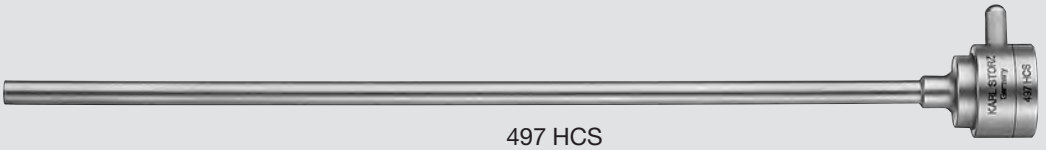
The combination of a light carrier with integrated telescope holder facilitates the introduction of the laryngoscope with excellent illumination. The telescopic sheath protector enables the introduction of any 4 mm standard telescope (0/30/45/70/90/120°). The telescope is inserted in the sheath and then anchored in the integrated light source/telescope holder. This enables detailed endoscopic examination of all parts of the larynx, such as the laryngeal ventricles or the anterior commissure.

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A/Professor Conjoint UNSW
Suite 506, 1 Newland Street
Bondi Junction, NSW, Australia



497 HC

497 HC HAVAS **Light Carrier,** with integrated telescope channel diameter 5 mm, for proximal illumination, for use with Laryngoscope 8790 A/B



497 HCS

497 HCS **Telescope Protective Sheath,** outer diameter 5 mm, length 20 cm, for use of Light Carrier 497 HC with Telescopes 7230 AA, BA, CA, DA, EA, FA

8-11

HAVAS **Laryngo*FIT*® Instruments** NEW

Accessories

KARL STORZ — ENDOSKOPE

Special Features:

- **Malleable distal end enables adjustment of the working end according to individual needs**
- **Can be completely dismantled**
- **Well-balanced handle with ergonomic design**
- **Inserts can be locked into three different positions**
- **Easy and efficient cleaning by means of a LUER connector**

Working Attachment			for use with Metal Handle
Working Length 25 cm	 +		
	**Laryngo*FIT*®** HAVAS **Forceps,** malleable		
	8791 AZ	round cupped jaws, 2 mm, straight	550000
	8793 AZ	serrated, straight	
	8793 GHZ	serrated, triangular, straight	
	Laryngo*FIT*® HAVAS **Scissors,** malleable		
	8794 AZ	straight	

8-11

Please note:
Metal Handle 550000 is **not** included in delivery. Please order separately.

Video-Laryngoscopy

Advantages of video-laryngoscopes compared to operation microscopes:

- **Greater depth focus**
- **No need to adjust focus**
- **The laryngoscope spatula does not restrict the field of vision**
- **The wide angle of view of the HOPKINS® telescope provides a larger overview behind the distal end of the laryngoscope**
- **No surgical microscope is required**
- **The magnified image can be observed from the ideal distance**
- **Better access to the anterior commissure**
- **No operation fatigue**
- **Simplifies the work of the assistant**
- **Images can be documented immediately**
- **Ideal for training purposes**



Advantages:

With this method the binocular operation microscope is replaced by the KARL STORZ video system. This system guarantees excellent conditions for:

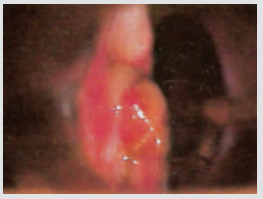
– operating
– documentation
– teaching of microlaryngological operation techniques

When connected to a video printer, this system enables high quality instant printouts to be made as a source of information for:

– physician referral
– radiologists
– oncologists



Microscope



Microscope



Video-Laryngoscope



Video-Laryngoscope

4-95₁

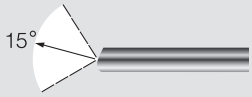
For Video Documentation Systems and Light Sources see catalog TELEPRESENCE

KANTOR-BERCI **Video-Laryngoscopes**

Model IV



8575 AV



8575 AV **HOPKINS® Straight Forward Telescope 15°,** diameter 4 mm, length 17 cm, **autoclavable,** 45° angled eyepiece, fiber optic light transmission incorporated, color code: green

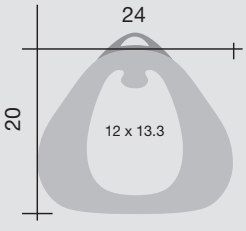


8590 JV



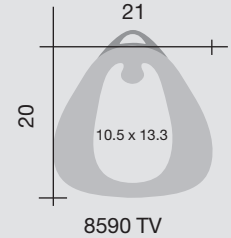
8590 TV

Full size illustration: inner diameter in mm proximal and distal



8590 JV

8590 JV KANTOR-BERCI **Video-Laryngoscope,** model IV, for adults, length 18 cm, enlarged proximal opening, curved distal tip especially designed to elevate the epiglottis and for optimal placement of the anterior commissure, flattened surface of the blade prevents damage to teeth, telescope guide tube integrated inside the lumen, with adaptor for HOPKINS® Telescope 8575 AV, for use with distal Fiber Optic Light Carrier 8590 GF or proximal Light Clip 497 AC, Vapor Suction Tube 8590 M and Laryngoscope Holder 8575 K or 8575 KC



8590 TV

8590 TV **Same,** for adolescents and adults, length 17 cm, for use with proximal Light Clip 497 AC and Laryngoscope Holder 8575 K or 8575 KC

Accessories for KANTOR-BERCI **Video-Laryngoscopes** see page 580

3-07

KLEINSASSER **Instruments**

For use with KANTOR/BERCI **Video-Laryngoscopes, Model IV**

Special feature of the miniature forceps with cupped jaws and scissors:

- **Distal end with 10° upwards curve provides better access to anterior commissure**



8591 BV



8591 AV — KLEINSASSER **Spoon Forceps,** 2 mm, straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm



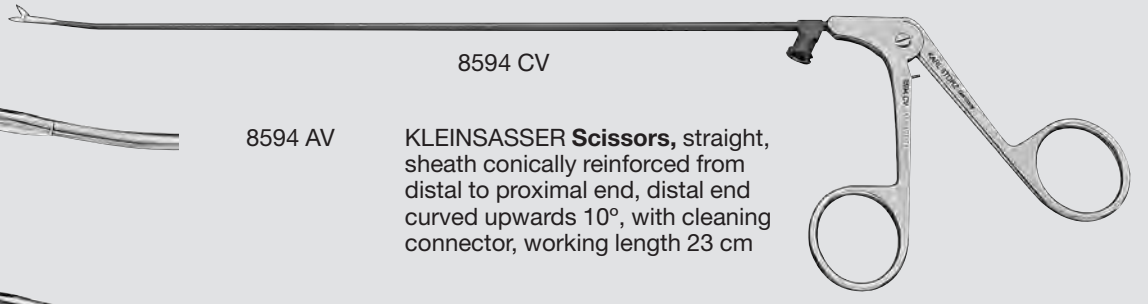
8591 BV — **Same,** curved upwards 45°



8591 CV — **Same,** curved to right



8591 DV — **Same,** curved to left



8594 CV



8594 AV — KLEINSASSER **Scissors,** straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm



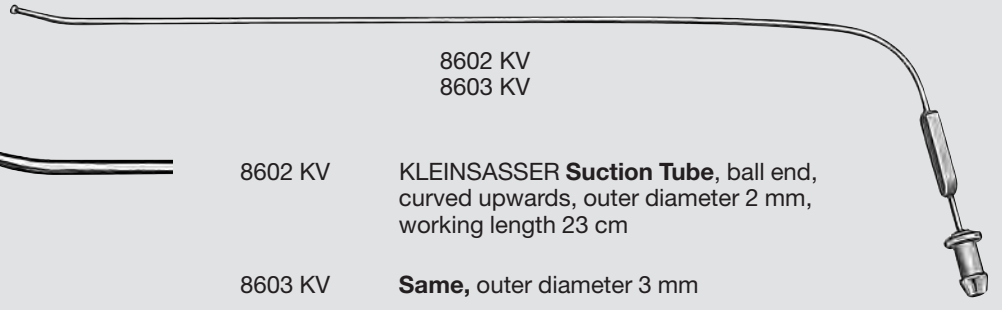
8594 BV — **Same,** curved upwards 45°



8594 CV — **Same,** curved to right



8594 DV — **Same,** curved to left



8602 KV
8603 KV



8602 KV — KLEINSASSER **Suction Tube**, ball end, curved upwards, outer diameter 2 mm, working length 23 cm

8603 KV — **Same,** outer diameter 3 mm

3-992

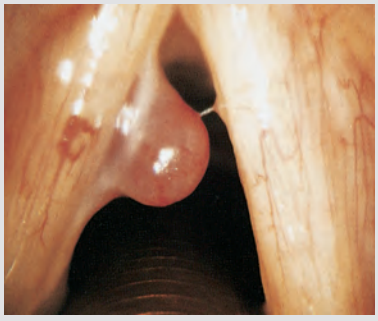
Original KLEINSASSER
Operating Laryngoscopes

KARL STORZ — ENDOSKOPE

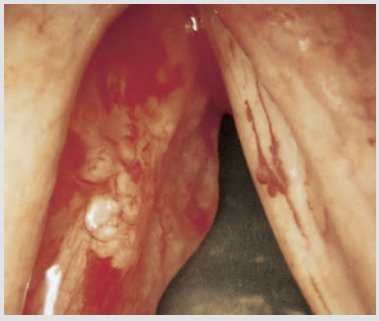
A complete set of laryngoscopes for adults and children are available. These laryngoscopes allow an excellent view of the laryngeal area, even under difficult anatomical conditions, such as limited oral aperture and short, thick, stiff necks. Uniform pressure distribution with reduced danger of tooth damage is provided by the flat support area of the laryngoscope against the teeth. A tooth guard to help protect the teeth and gums is also available. The laryngoscopes have smooth surfaces and are easy to clean and sterilize.

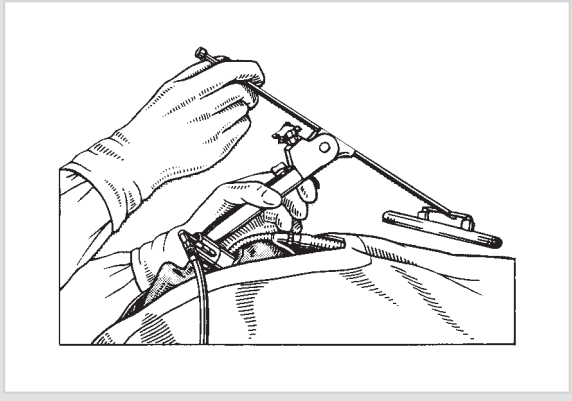
The specially designed laryngoscope holder and chest support can be placed directly against the thorax without affecting respiration. Special tables and support devices are not required with this chest support.

Precision, small diameter grasping and cutting instruments are available. These instruments have a thin, but very rigid sheath which allows excellent control during surgery within the laryngeal area.

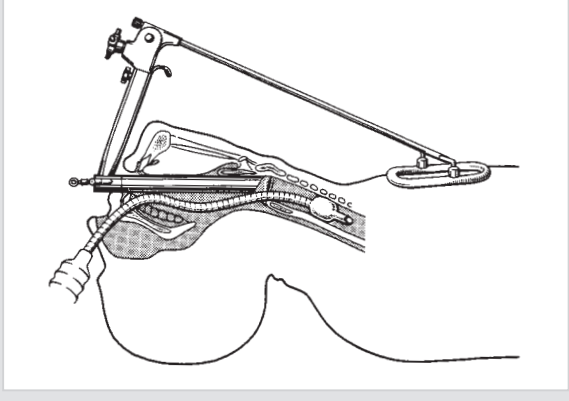








Placement of the chest support after introduction of the laryngoscope.



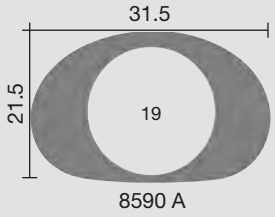
Final adjustment of the laryngoscope before the beginning microlaryngoscopy.

3-99

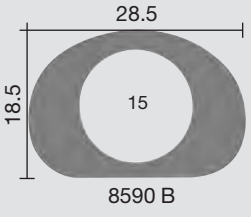
Original KLEINSASSER
Operating Laryngoscopes

KARL STORZ — ENDOSKOPE

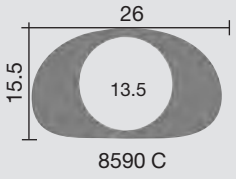
Full size illustration:
inner diameter in mm proximal and distal



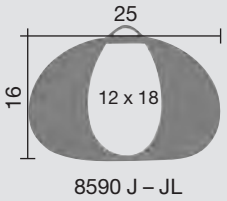
8590 A



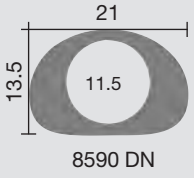
8590 B



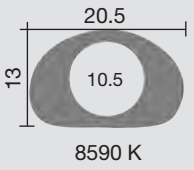
8590 C



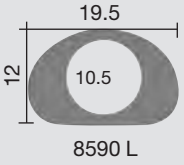
8590 J – JL



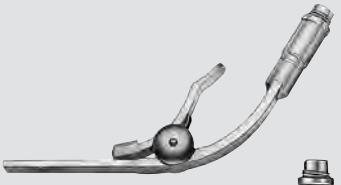
8590 DN

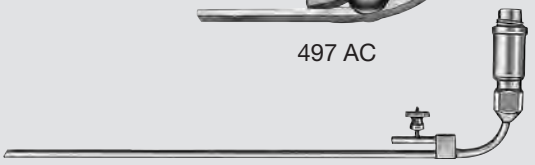


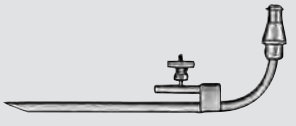
8590 K

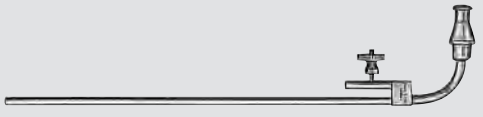


8590 L


497 AC


8590 GF – HF


8590 KC


8590 M – N



8590 A – L

8590 GF – HF

8590 A	KLEINSASSER **Operating Laryngoscope,** for adults, extra large, length 17 cm
8590 B	**Same,** large
8590 C	**Same,** medium (most commonly used model)
8590 DN	**Same,** small, length 18 cm (for particularly difficult anatomical circumstances)
8590 J	**Same,** medium, length 18 cm (for anterior commissure)
8590 JL	**Same,** medium, length 22 cm (for especially long neck)
8590 K	**Same,** for children, small, length 15 cm
8590 L	**Same,** for infants, small, length 13 cm
497 AC	**Clip,** for proximal illumination
8590 GF	**Fiber Optic Light Carrier,** for distal illumination, working length 14 cm, for use with Laryngoscopes 8590 A – JL
8590 HF	**Fiber Optic Light Carrier,** for distal illumination, working length 7.5 cm, for use with Laryngoscopes 8590 K – L
8590 KC	**Injection Cannula,** for positive pressure assisted ventilation, working length 8.5 cm, for use with Laryngoscopes 8590 A – L
8590 M	**Suction Tube to remove vapor,** for LASER treatment, diameter 3 mm, working length 12.5 cm, for use with Laryngoscopes 8590 A – JL
8590 N	**Suction Tube, to remove vapor,** for LASER treatment, diameter 3 mm, working length 9 cm, for use with Laryngoscopes 8590 K – L

3-99

KLEINSASSER **Operating Laryngoscopes**

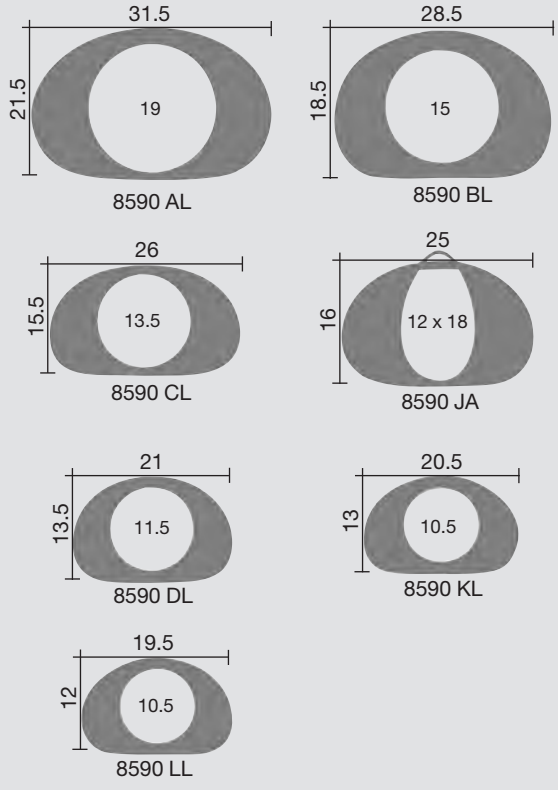
modified by RUDERT

KARL STORZ — ENDOSKOPE

Special Features:

- **Proven conical** KLEINSASSER **design**
- **Modified by** RUDERT **with right and left lateral outer channels used for smoke evacuation and/or for fiber optic light carrier**
- **Full lumen working capacity, unobstructed view, operating instruments cannot get caught**

Full size illustration:
inner diameter in mm proximal and distal





8574 JH/LF/LG



8574 JK/LM/LN



8590 AL	KLEINSASSER **Laryngoscope,** extra large, modified by RUDERT for CO_2 LASER surgery, for adults, with lateral outer channels for suction tube to remove vapor and/or for fiber optic light carrier, length 17 cm
8590 BL	**Same,** large
8590 CL	**Same,** medium
8590 DL	**Same,** small, length 18 cm
8590 JA	**Same,** medium, length 18 cm, for anterior commissure
8590 KL	**Same,** for children, length 15 cm
8590 LL	**Same,** for infants, length 13 cm
8574 JH	**Fiber Optic Light Carrier,** for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
8574 LF	**Same,** length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
8574 LG	**Same,** length 14 cm, for use with Laryngoscope 8590 KL
8574 JK	**Suction Tube, to remove vapor,** for LASER treatment, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
8574 LM	**Same,** length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
8574 LN	**Same,** length 14 cm, for use with Laryngoscope 8590 KL

3-99

Triangle Anterior Commissure Laryngoscopes

KARL STORZ — ENDOSKOPE

Most laryngoscopes have a round or oval distal opening, which is not optimally suited to the triangular shaped glottis (Fig. 1, left). It is therefore frequently not possible to focus on the anterior commissure with these laryngoscopes. The so-called "anterior commissure tubes" with upturned distal end shift the larynx and thus the anterior third of the glottis forwards out of the field of view. In addition to this, the curve of the tube end impedes the view of the anterior commissure (Fig. 2).

Taking up the idea of Vaughan, we developed a laryngoscope for examining the anterior commissure. Its distal end is not upturned, but is shaped like the ridge of a roof. The triangular shape means that the distal opening exactly fits into the similarly triangular shape of the glottis (Fig. 1, right). The laryngoscope offers a good view of the glottis from the anterior commisure right to the arytenoid region.

The laryngoscope is available in 2 sizes. The smaller one is the universal tube. The larger one is suitable for large larynxes in adults with edentulous upper jaws.

Prof. emer. H. RUDERT, M. D.,
Universitätsklinik Kiel, Germany



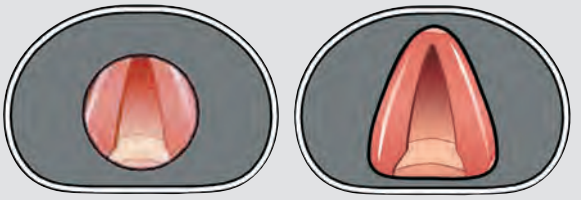


Fig. 1. *Focus of distal laryngoscope on the glottis: the oval or round laryngoscope (left), our triangular shaped laryngoscope for the anterior commisure (right).*

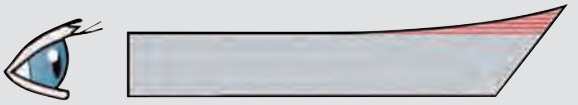
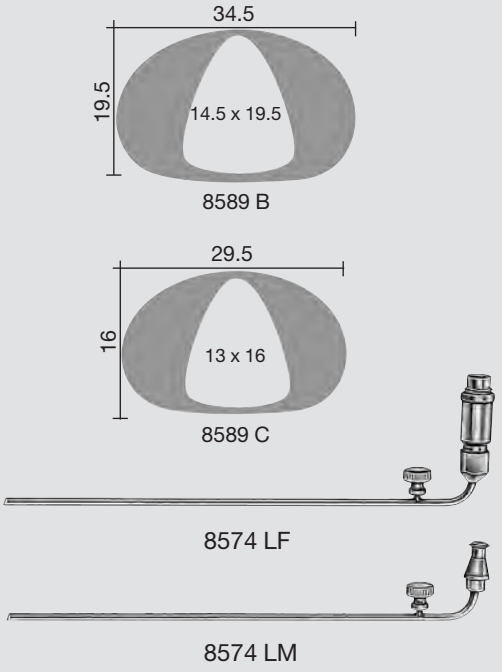


Fig. 2. *The upturned distal end of the so-called "anterior commissure tube" impedes the view of the anterior commissure.*



8589 B	RUDERT **Anterior Commissure Laryngoscope,** large, triangular spatula-shaped, with lateral outer channels for Fiber Optic Light Carrier 8574 LF or Suction Tube to remove vapor 8574 LM, length 17 cm, (version with wide lumen for special cases)
8589 C	**Same,** medium, universal size, (most commonly used model)
8574 LF	**Fiber Optic Light Carrier,** for distal illumination, length 16 cm, for use with Laryngoscopes 8590 AL/BL/C/CL/DL/JA and 8589 B/C
8574 LM	**Suction Tube to remove vapor,** for LASER treatment, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C

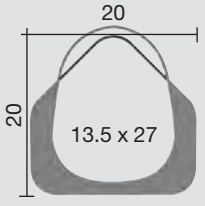
11-03

DEDO **Operating Laryngoscope** NEW

Special Features:

- **The** DEDO **laryngoscope enables a view of the glottis from the anterior commissure right to the arytenoid region.**
- **Thin tube diameter allows universal use in adults.**
- **The distal end of the laryngoscope is shaped like a rounded “V” for optimal visualization.**
- **Proximal design provides an excellent view of the anterior commissure.**
- **Comfortable handle design and low overall weight enables convenient handling.**

Dimensions in mm:
proximal and distal





8890 A

8890 A	DEDO **Operating Laryngoscope,** with extra light handle, length 18 cm



8574 LG	**Fiber Optic Light Carrier,** for distal illumination, length 14 cm, for use with Laryngoscope 8890 A



8574 LN	**Suction Tube to remove vapor,** length 14 cm, for use with Laryngoscope 8890 A

8-11

STEINER **Distending Operating Laryngoscopes**

for Transoral LASER Microsurgery





8661 AN

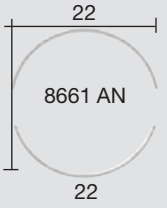


Rear view

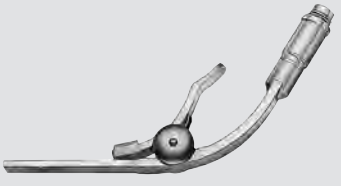
Outer dimensions in mm:
proximal distal



Width of valves: max. 35, min. 19



Width of valves: max. 50, min. 19



497 AC

8661 AN	STEINER **Distending Operating Laryngoscope,** for adults, lightweight construction, with antireflex coating for LASER treatment, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC
8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
497 AC	**Clip,** for proximal illumination

3-99

Components/Spare Parts see chapter 16

STEINER **Distending Operating Laryngoscope and Oropharyngoscope**

for Transoral LASER Microsurgery

KARL STORZ — ENDOSKOPE



8666 AN

Rear view

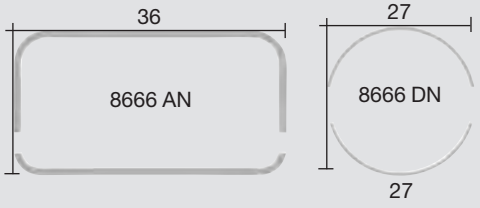


8666 DN



Rear view

Outer dimensions in mm:
proximal distal



Width of valves: max. 30, min. 19

Width of valves: max. 43, min. 21

8666 AN

STEINER **Distending Operating Laryngoscope,** for adults, lightweight construction, with antireflex coating for LASER treatment, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

8666 DN

STEINER **Distending Operating Oropharyngoscope,** for adults, lightweight construction, with antireflex coating for LASER treatment, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

11-03$_2$

STEINER **Operating Laryngoscopes**

for Transoral LASER Microsurgery
with integrated channel to remove vapor



8661 CN



8661 DN



8661 EN

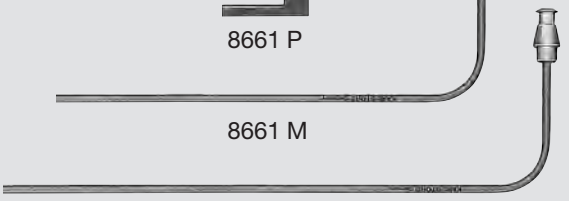


497 AC

8661 P

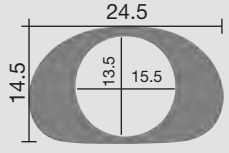


8661 M

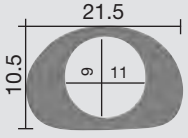


8661 N

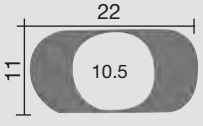
Full size illustration:
inner diameter in mm
proximal and distal



8661 CN



8661 DN



8661 EN

8661 CN	STEINER **Operating Laryngoscope,** medium-large, for adults, with antiflex coating for LASER treatment, with integrated channel to remove vapor, outer diameter proximal 26 x 18 mm, length 18 cm
8661 DN	STEINER **Operating Laryngoscope,** small, for adults with difficult anatomical circumstances and for children, with antiflex coating for LASER treatment, with integrated channel to remove vapor, outer diameter proximal 23 x 15 mm, length 19 cm
8661 EN	STEINER **Operating Laryngoscope,** extra small size, for difficult anatomical circumstances, with antiflex coating for LASER treatment, flat, outer diameter proximal 24 x 13 mm, length 20 cm, for use with Suction Tube 8661 M/N
8661 M	**Suction Tube to remove vapor,** for LASER treatment, outer diameter 3 mm, working length 16 cm, for use with operating laryngoscopes and Adaptor 8661 P
8661 N	**Same,** working length 20 cm
8661 P	**Adaptor,** for Suction Tube 8661 M/N, attachable to the laryngoscope's proximal end, allows continuous adjustment of the suction tube within the laryngoscope
497 AC	**Clip,** for proximal illumination

3-99$_2$

WEERDA **Distending Operating Laryngoscopes**

KARL STORZ — ENDOSKOPE

Special Features:

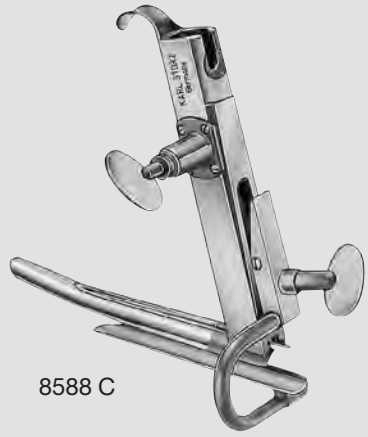
- **Two adjustment screws enable maximal distending and exact adaptation to every anatomy, providing excellent viewing conditions. Lateral adjustment screw allows the lumen to be expanded by 38 – 30 mm. Front adjustment screw enables maximal distal distending of the lower spatula blade.**
- **Small dimensions of laryngoscope when spatula are closed ease introduction**
- **Wide lateral slots provide largest possible working area for micro surgical instruments**
- **Use of additional suction tubes to remove vapor during laser surgery ensures that overview is not obstructed.**



8588 A



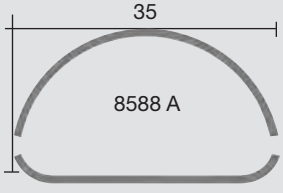
8588 B



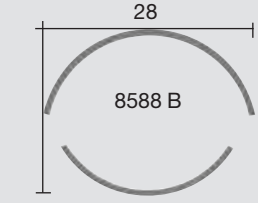
8588 C

Outer dimensions in mm:

proximal



Width of valves: max. 30, min. 18

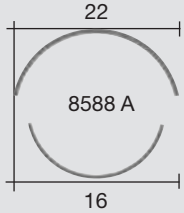


Width of valves: max. 35, min. 23

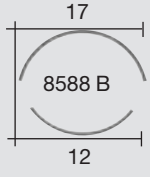


Width of valves: max. 26, min. 14

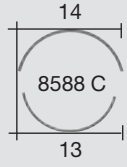
distal



Width of valves: max. 65, min. 15



Width of valves: max. 57, min. 10



Width of valves: max. 47, min. 11.5

8588 A	WEERDA **Distending Operating Laryngoscope,** large, for adults, length 18 cm
8588 B	**Same,** for adolescents and adults
8588 C	WEERDA **Distending Operating Laryngoscope,** for children, length 13.5 cm
8588 GF	**Fiber Optic Light Carrier,** for use with Laryngoscopes 8588 A/B
8588 GP	**Same,** for use with Laryngoscopes 8588 C
8588 K	**Injection Cannula,** for positive pressure assisted ventilation, for use with 8588 A/B/BV
8588 M	**Suction Tube to remove vapor,** for LASER treatment, for use with Laryngoscopes 8588 A/B/BV
8588 MP	**Same,** for use with Laryngoscope 8588 C

3-99

WEERDA **Distending Video Operating Laryngoscope**

KARL STORZ — ENDOSKOPE

Transoral partial laryngectomy and pharyngectomy using the WEERDA **distending video-laryngoscope**

With conventional microlaryngeal surgery, because surgical procedures are performed through a narrow laryngoscope under the guidance of a surgical microscope, the visual field is limited and working space is narrow. In addition, the visual field is often blocked when two hands are used. These disadvantages have limited its indications.

In order to resolve these issues, we have been performing surgery using KARL STORZ's WEERDA distending video laryngoscope (conventional WEERDA distending laryngoscope and HOPKINS® telescope) and the Endovision® TELECAM SL/IPM camera system to achieve a larger visual field and sufficient working space.

Characteristics of the WEERDA **distending video-laryngoscope**

With the present system, because the laryngeal/hypopharyngeal region can be widely opened, a sufficient working space and a wide visual field can be achieved. As a result, surgical procedures that used to require tracheostomy or external cervical incision can now be performed transorally. Supraglottic laryngectomy and partial hypopharyngectomy can be performed with less invasiveness. In addition to such surgical procedures for laryngeal and hypopharyngeal cancers, the present system is useful for various procedures in the laryngeal, hypopharyngeal and lingual root regions. Hence, it is a powerful tool to make surgery in these regions less invasive.

A. SHIOTANI, M. D.,
Professor and Chairman,
Department of Otolaryngology-Head and Neck Surgery,
National Defense Medical College,
Saitama, Japan



8588 BV

8575 AV

8588 BV	WEERDA **Distending Video Operating Laryngoscope,** for adolescents and adults, for operation under video control, with channel and holder for Telescope 8575 AV, length 17 cm, for use with Fiber Optic Light Carrier 8590 GF, Suction Tube to remove vapor 8588 M, Injection Cannula 8588 K and Laryngoscope Holder and Chest Support 8575 K
8575 AV	**HOPKINS® Straight Forward Telescope 15°,** diameter 4 mm, length 17 cm, **autoclavable,** 45° angled eyepiece, fiber optic light transmission incorporated, color code: green

3-07

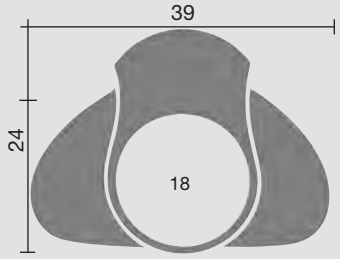
Original LINDHOLM **and** BENJAMIN-LINDHOLM **Operating Laryngoscopes**

KARL STORZ — ENDOSKOPE

Special Features:

- **Unique design particularly suitable for laryngeal surgery**
- **Panoramic overview of the laryngopharynx**
- **Exceptional view of the epiglottis, arytenoids, posterior commissure, pyriform sinuses and cricoid region**
- **Excellent inspection of areas mentioned above with operation microscope**

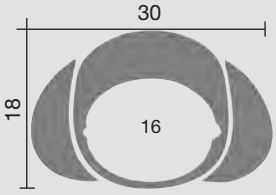
Full size illustration:
inner diameter in mm
proximal and distal



8587 A/AA



8587 KK



8587 N



8587 P



8587 A/AA/KK

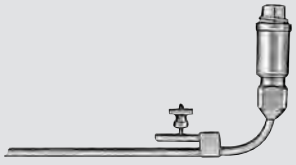
8587 GF

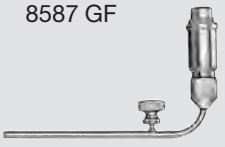


8587 N

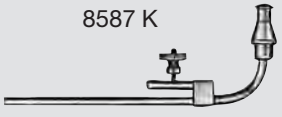


8587 P


8587 GF


8587 PF


8587 K


8587 M/MK


8587 PM

8587 A	LINDHOLM **Operating Laryngoscope,** large, for adults, inner proximal end 39 x 24 mm, distal end width 18 mm, length 15 cm
8587 AA	**Same,** length 17 cm
8587 KK	**Same,** for children, inner proximal end 30 x 20 mm, distal end width 16 mm, length 11 cm
8587 N	BENJAMIN-LINDHOLM **Operating Laryngoscope,** for children, inner proximal end 30 x 18 mm, distal end width 20 mm, length 11.5 cm
8587 P	BENJAMIN-LINDHOLM **Operating Laryngoscope,** for newborn babies and infants, inner diameter proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm
8587 GF	**Fiber Optic Light Carrier,** for distal illumination, length 7.5 cm, for use with Laryngoscopes 8587 A/AA/KK
8587 PF	**Same,** length 6.5 cm, for use with Laryngoscopes 8587 N/P
8587 K	**Injection Cannula,** for positive pressure assisted ventilation, length 8.5 cm, for use with Laryngoscopes 8587 A/AA/KK
8587 M	**Suction Tube to remove vapor,** for LASER treatment, length 8.5 cm, for use with Laryngoscopes 8587 A/AA
8587 MK	**Same,** length 7 cm, for use with Laryngoscope 8587 KK
8587 PM	**Same,** length 6.5 cm, for use with Laryngoscope 8587 N/P

3-99$_{1}$

Original BENJAMIN **and** BENJAMIN-PARSONS **Slimline Operating Laryngoscopes and Subglottiscopes**

KARL STORZ — ENDOSKOPE

Special Features:

- **Appropriate for patients whose larynx is difficult to inspect**
- **For micro surgery and LASER surgery**
- **Light clip for proximal illumination**
- **Quickly and easily attachable to the laryngoscope**



8574 SL

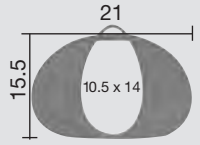


8574 SLS

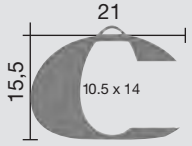


8574 SSL

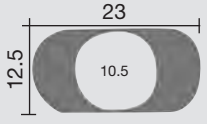
Full size illustration:
inner diameter in mm proximal and distal



8574 SL



8574 SLS



8574 SSL



497 AC



8574 GY – GZ

8574 SL	BENJAMIN **Slimline Operating Laryngoscope and Subglottiscope,** for adults, slender, length 17 cm, for use with Clip 497 AC
8574 SLS	BENJAMIN-PARSONS **Slimline Operating Laryngoscope and Subglottiscope,** for adults, slender, right-hand side slotted for the introduction of bronchoscopes and tracheal tubes, length 17 cm, for use with Clip 497 AC
8574 SSL	BENJAMIN-PARSONS **Super-Slimline Operating Laryngoscope and Subglottiscope,** for adults, extra slender, flat model, for particularly difficult anatomical circumstances, length 17 cm, for use with Clip 497 AC
497 AC	**Clip,** for proximal illumination
8574 GY	BENJAMIN **Injection Cannula,** for positive pressure assisted ventilation, malleable, diameter 2 mm, working length 13.5 cm
8574 GZ	**Same,** diameter 3 mm

3-99

Original PARSONS
Adult Operating Laryngoscopes

KARL STORZ — ENDOSKOPE

Special Features:

- **Wide proximal end – highly suitable for binocular inspection**
- **Superior surface of size 4 and 5 is rough to prevent tongue from sliding into the lumen.**
- **Easy use of instruments**
- **Maximum illumination of operation area**



8576 AA

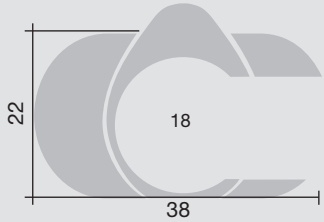


8576 A

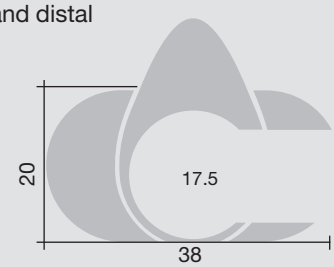


8576 B

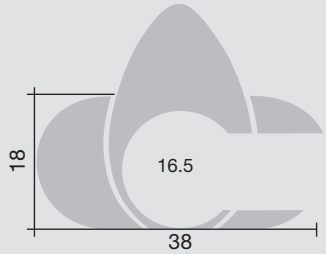
Full size illustration:
inner diameter in mm proximal and distal



8576 AA

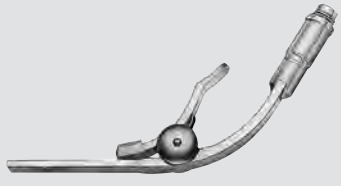


8576 A



8576 B

8576 AA	PARSONS **Operating Laryngoscope,** size 6, for adults, large, for anterior commissure, wide proximal opening suitable for binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or for jet ventilation, length 18 cm, for use with Clip 497 AC for proximal illumination
8576 A	**Same,** size 5, for adolescents and adults, medium-large, length 16.5 cm
8576 B	**Same,** size 4, for children up to age 12, medium, length 14.5 cm



497 AC

497 AC	**Clip,** for proximal illumination

1-97₃

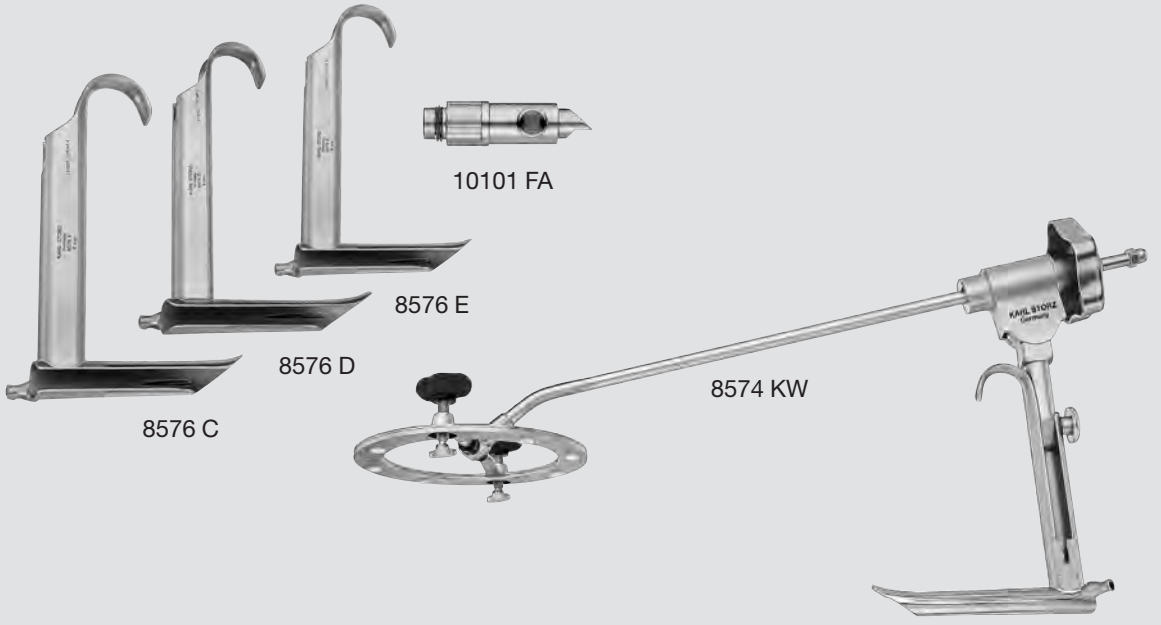
Original PARSONS **Pediatric Laryngoscopes**

with Proximal Ilumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Enlarged proximal end enables binocular viewing**
- **Lateral insufflation channel for anesthetic gas and oxygen supply**
- **Also appropriate for jet ventilation**
- **Wide lateral slit allows introduction of bronchoscopes and esophagoscopes and enlarges the lumen of the laryngoscope for better binocular inspection**
- **Flat anterior tip enables better positioning in the anterior commissure or vallecula. Simultaneous use of a telescope enables excellent panoramic view**
- **Superior surface is rough to prevent tongue from sliding into the lumen, thereby ensuring an unobstructed view of supraglottic structures**
- **Complete set in 3 sizes for premature babies, newborn babies and infants up to 4 years old**



8576 C	PARSONS **Laryngoscope,** size 3, for toddlers, flat distal end for anterior commisure, wide proximal opening enable binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or jet ventilation, for use with Prismatic Light Deflector 10101 FA/JA/JUA and Laryngoscope Holder 8574 KT/KW, length 11 cm
8576 D	**Same,** size 2, for neonates, length 9 cm
8576 E	**Same,** size 1, for premature infants, length 8 cm

10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable (not to be used with 8574 K/KB/KT/KW)
8574 KW	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

3-99$_3$

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

Original BENJAMIN **and** BENJAMIN-PARSONS **Pediatric Operating Laryngoscope**

KARL STORZ — ENDOSKOPE

Special Features:

- **Wide proximal end for binocular inspection**
- **Easy use of instruments due to large access**
- **Safe use of CO_2 laser**
- **Lateral channels for suction tubes to remove vapor during LASER surgery and for light carrier for distal illumination**
- **Maximum illumination of operation area**



8574 J

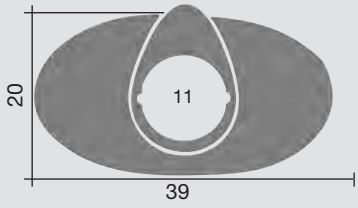


8574 JB

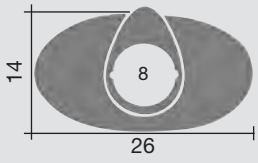


8574 JP

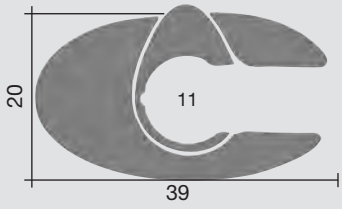
Full size illustration:
inner diameter in mm proximal and distal



8574 J



8574 JB



8574 JP



8574 JH



8574 JK



8587 PF



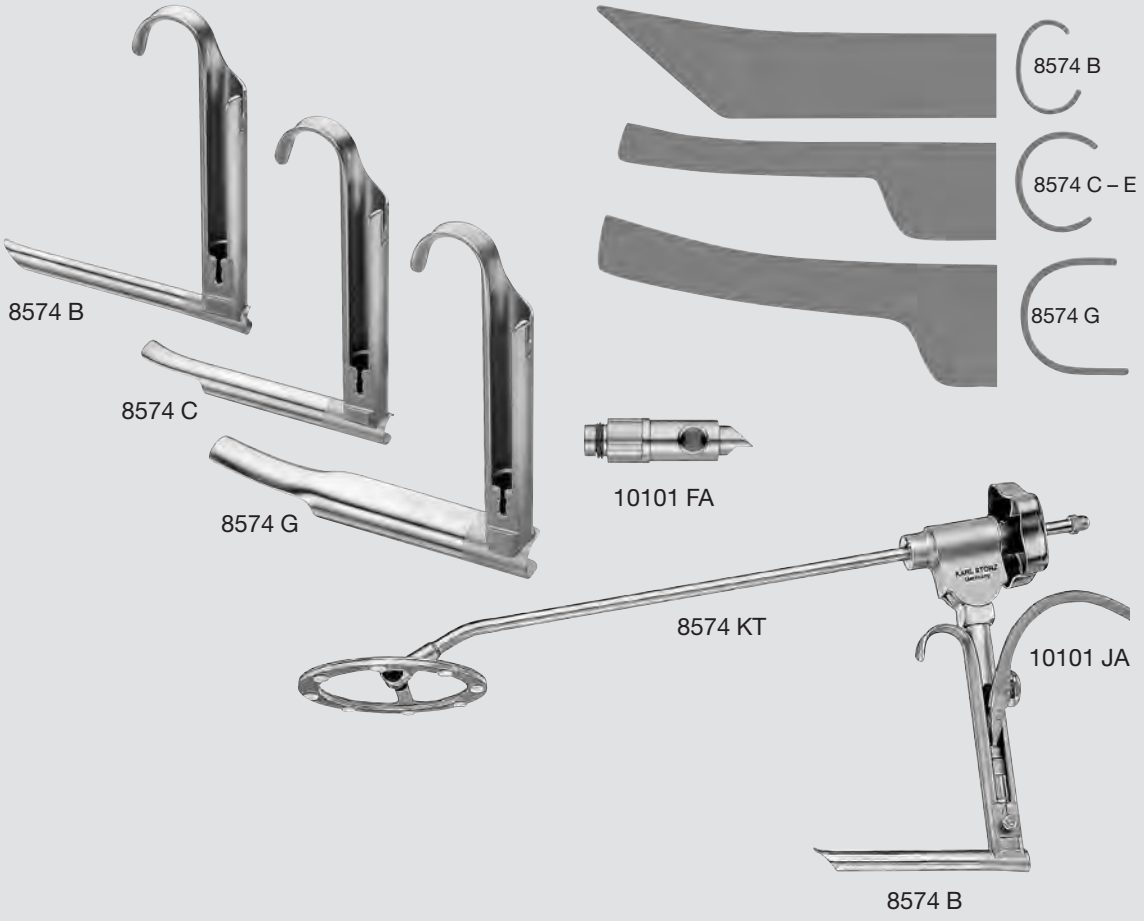
8587 PM

8574 J	BENJAMIN **Operating Laryngoscope,** for children, length 15 cm
8574 JB	**Same,** small size, length 11.5 cm
8574 JP	BENJAMIN-PARSONS **Operating Laryngoscope,** for children, lateral slit for the introduction of pediatric bronchoscopes up to size 6 and tracheal tubes, lower surface of spatula is rough to prevent tongue from slipping off, length 15 cm
8574 JH	**Fiber Optic Light Carrier,** for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP
8574 JK	**Suction Tube to remove vapor,** for LASER treatment, length 12 cm, for use with 8574 J/JP
8587 PF	**Fiber Optic Light Carrier,** for distal illumination, length 6.5 cm, for use with Laryngoscope 8574 JB
8587 PM	**Suction Tube, to remove vapor,** for LASER treatment, length 6.5 cm, for use with Laryngoscope 8574 JB

3-99

Pediatric Laryngoscopes

with Proximal Illumination



8574 B	HOLINGER-TUCKER **Anterior Commissure Laryngoscope,** lateral opening, length 11 cm
8574 C	**Slotted Laryngoscope,** lateral opening, length 11 cm
8574 D	**Same,** length 9.5 cm
8574 E	**Same,** length 8 cm
8574 G	BENJAMIN **Slotted Laryngoscope,** lateral opening, especially appropriate for introducing pediatric bronchoscopes, length 13.5 cm
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
10101 JA	**Same,** fiber optic light cable integrated (for use with 8574 KT/KW)
10101 JUA	**Same,** autoclavable, with additional light cable for the simultaneous use of telescopes
8574 KT	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm **or:**
8574 KW	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

1-94₄

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

HOLINGER **Laryngoscope,** LEWY **Laryngoscope Holder**



8575 KT



original size:

8580 B



8580 H

8575 KT *NEW*	LEWY **Laryngoscope Holder and Chest Support** including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
8575 KW *NEW*	LEWY **Laryngoscope Holder and Chest Support** including: **Support Rod,** movable, with metal ring, diameter 12 cm, length 34 cm
8580 B	HOLINGER **Anterior Commissure Laryngoscope,** for adults, length 17 cm, with Fiber Optic Light Carrier 8580 BL and Handle 8580 H
8580 H	**Laryngoscope Handle,** detachable, for use with LEWY laryngoscope holder and chest support and with operating laryngoscopes

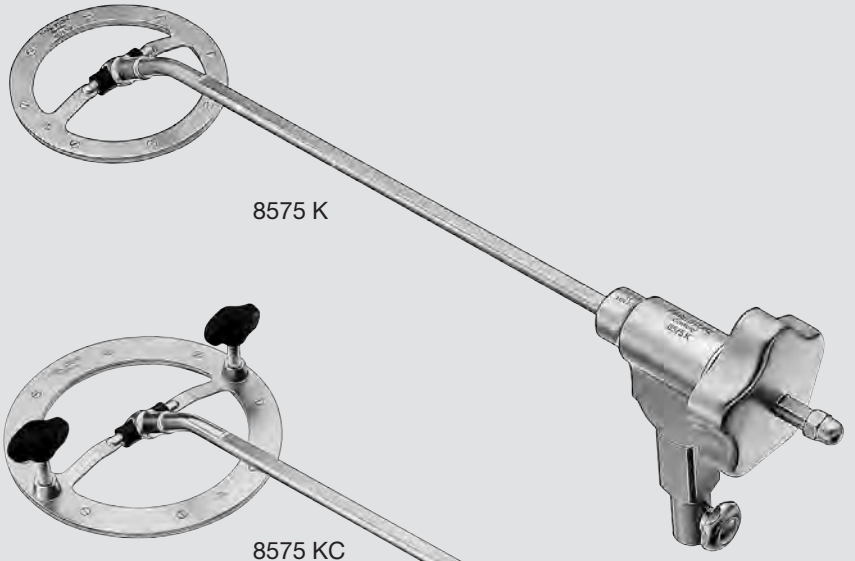
Please note:
Chest Supports 8575 GL/K/KC are not to be used with Pediatric Laryngoscopes 8576 C – E.
Handle 8580 H is detachable for use of Laryngoscope 8580 B, also with Chest Supports 8575 K/KC.
LEWY Chest Support 8575 GL can be adapted to Handle 8580 H.

Components/Spare Parts see chapter 16

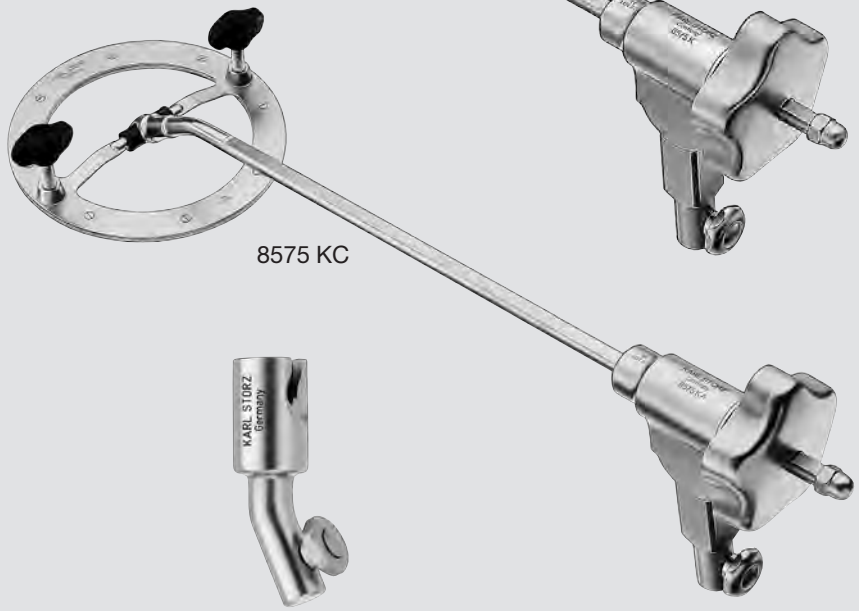
11-03ı

Laryngoscope Holders

for Operating Laryngoscopes



8575 K



8575 KC

8575 V

8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm
8575 V	**Extension,** GRONINGEN model, for enlargement of opening angle of support rod for overweight patients, angled, length 8 cm, for use with Laryngoscope Holder 8575 K/KC and Laryngoscopes 8574 J – JP/SL – RB, 8576 AA – B, 8580 – 8590, 8661 – 8666

11-03$_2$

Components/Spare Parts see chapter 16

Chest Support

for Laryngoscope Holders

KARL STORZ — ENDOSKOPE

Chest Support, GÖTTINGEN model

A special **chest support system** has been designed to meet the requirements of transoral tumor surgery in the pharynx and larynx, together with an adjustable platform that can be secured in any of three dimensional positions, allowing effortless changes in the position of the laryngo-pharyngoscope during tumor surgery. Extremely lateral angles, as are often necessary for work in the pharynx, are easily achieved and maintained.

Prof. emer. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik,
Göttingen, Germany



8575 L

8575 L	**Support Table,** GÖTTINGEN model, for Laryngoscope Holders 8575 K/KC, 8574 KT/KW, **autoclavable** including: **Swivel Arm,** with movable plate **Holding Rod,** for height adjustment **Attachment Blocks,** can be mounted on operation table equipped with standard sliding rail 25 x 10 mm

11-03

Components/Spare Parts see chapter 16

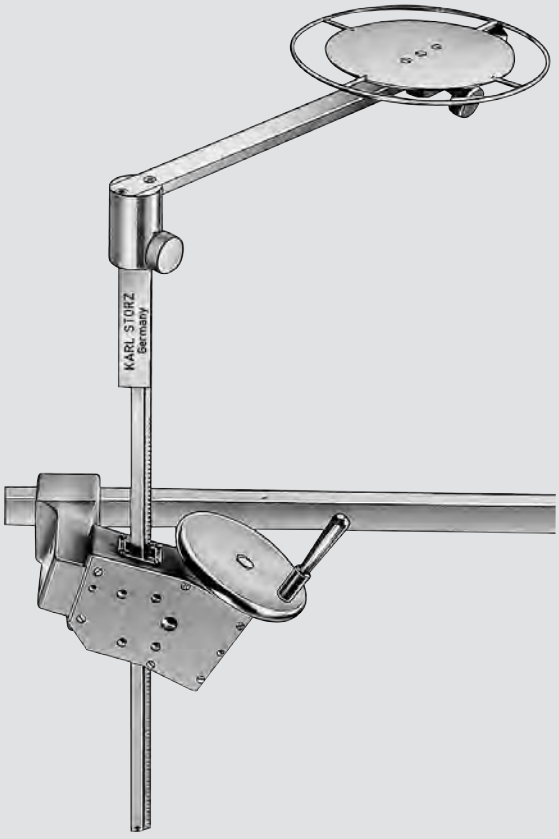
Chest Support

for Laryngoscope Holders

Chest Support, LÜBECK model

Special Features:

- **Movable plate for Chest Supports 8575 K/KC, 8574 KT/KW**
- **Swivel holding arm**
- **Fine gear system complements height adjustment of chest support**
- **Ensures safe mounting of the chest support and the laryngoscope**
- **Ideal for children and overweight patients**
- **Support plate with lateral ring for attaching Tongue Spatula 743910 – 744405 for adenoidectomy and tonsillectomy**



8585 S

8585 S	**Chest Support,** LÜBECK model, with gear system for height adjustment and swivel arm with movable plate, for use with Laryngoscope Chest Supports 8575 K/KC, 8574 KT/KW, can be mounted on OR table equipped with standard sliding rail 25 x 10 mm

3-99

Components/Spare Parts see chapter 16

Laryngo*FIT*® Instruments NEW

completely detachable

KARL STORZ — ENDOSKOPE



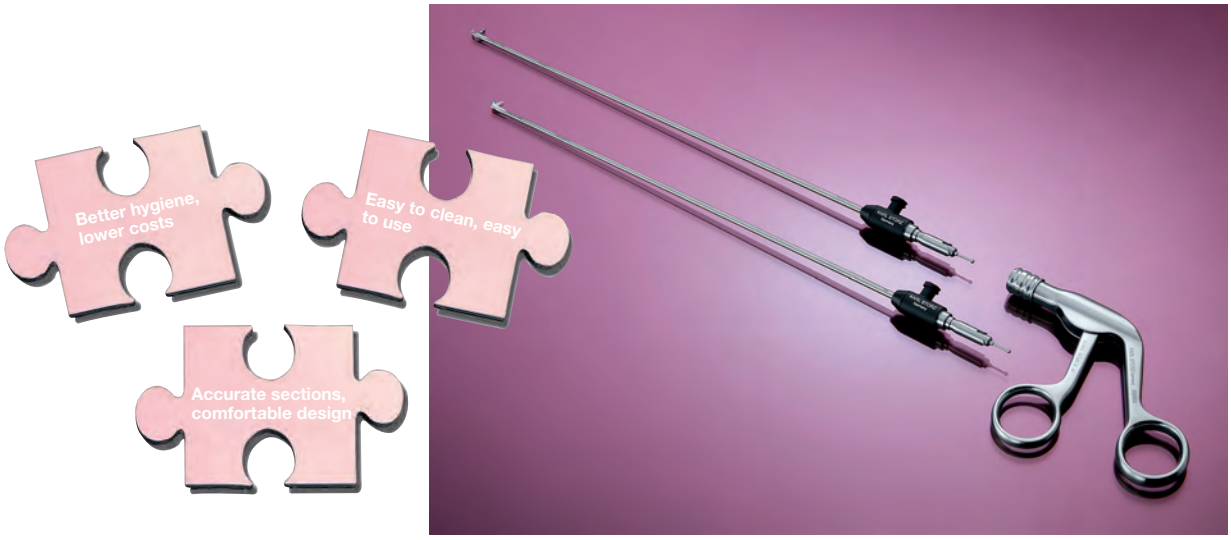
The missing piece of the puzzle
The new generation of ENT forceps from KARL STORZ

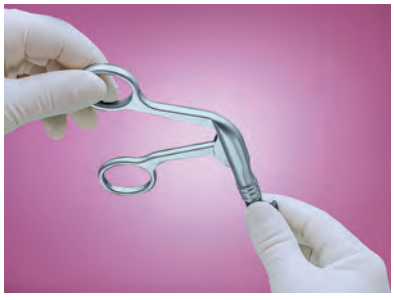
Nothing could be more simple!

The preparation of instruments is increasingly in the spotlight. The demand for a perfect hygienic cleaning process which can be validated and recorded is difficult to meet due to the design constraints of conventional instruments.

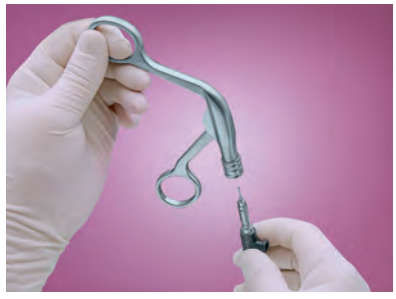
Laryngo*FIT*®, the new ENT forceps from KARL STORZ, on the contrary, make perfect hygiene child's play. One hand movement is enough to separate the working insert from the handle. You then have 2 instrument parts without dirt traps or inaccessible channels, which can be cleaned efficiently to a cutting-edge hygienic standard.

Naturally, the instruments can be reassembled as quickly and easily as they can be dismantled.

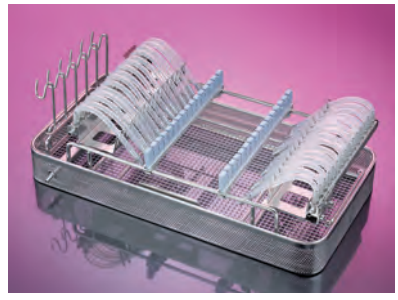




Dismantling the instrument in 2 simple steps: Push the slide back...



...and pull the working attachment out of the handle.



Machine cleaning of the **Laryngo*FIT*®** instruments is as easy as it is efficient. Specially developed cleaning racks, in which the separate parts of the **Laryngo*FIT*®** can be connected directly to the rinsing system, ensure particularly thorough preparation.

7-09

Laryngo*FIT*® Instruments NEW

completely detachable



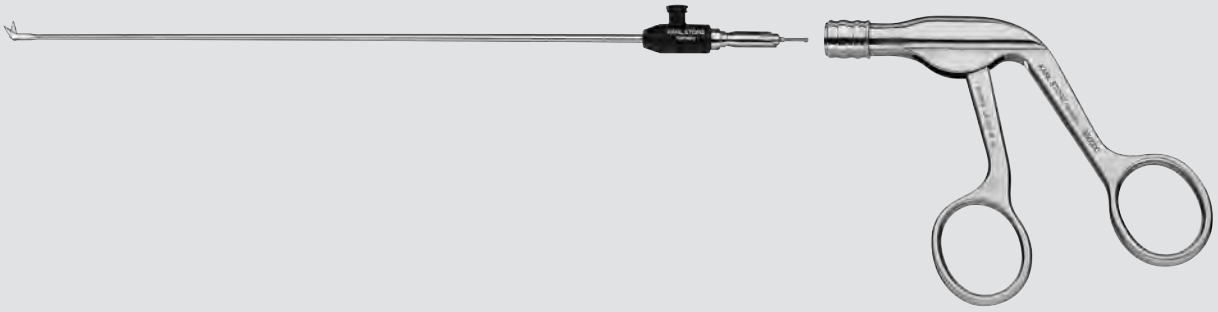
Special Features:

- **Completely detachable**
- **Easy dismantling and reassembly**
- **Easy and efficient cleaning also by means of the LUER-Lock connection**
- **Economic advantages due to compatibility with all working attachments**
- **Well-balanced handle with ergonomic design**
- **Great variety of working inserts**
- **Inserts can be locked into three different positions**

Two-piece design

Laryngo*FIT*® Instruments can be completely disassembled into separate components:

- Handle
- Working attachment



7-09

Laryngo*FIT*® Instruments NEW

completely detachable

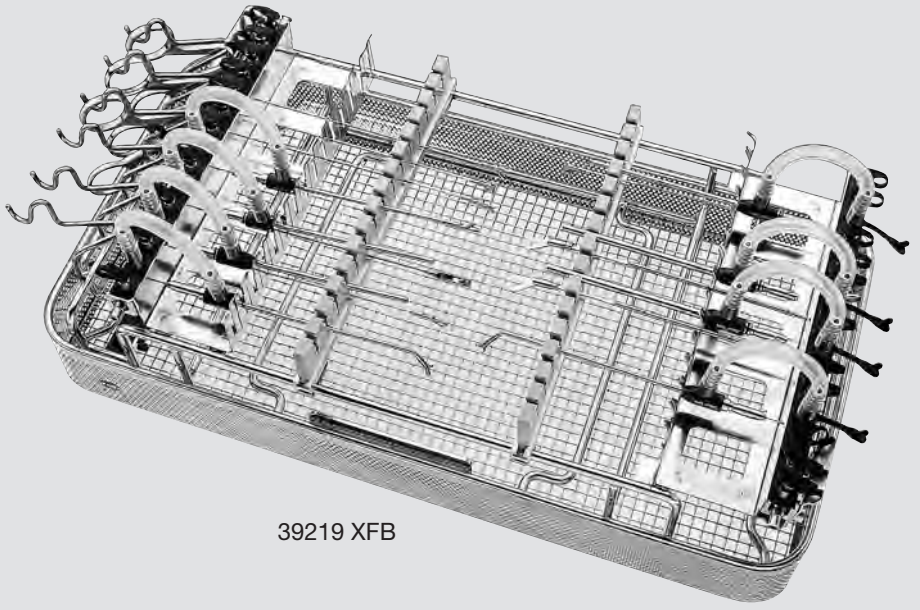
KARL STORZ — ENDOSKOPE



Working Attachment			for use with Metal Handle
working length 23 cm			
Laryngo*FIT*® KLEINSASSER **Cutting Forceps,** with cupped jaws, 2 mm			
	8591 AZ	straight	550000
	8591 BZ	curved upwards	
	8591 CZ	curved right	
	8591 DZ	curved left	
Laryngo*FIT*® KLEINSASSER **Alligator Forceps,** serrated			
	8593 AZ	straight	
	8593 BZ	curved right	
	8593 CZ	curved left	
	8593 EZ	curved upwards	
Laryngo*FIT*® KLEINSASSER **Scissors**			
	8594 AZ	straight	
	8594 BZ	angled 45°	
	8594 CZ	curved right	
	8594 DZ	curved left	

Please note:
Metal Handle 550000 is **not** included. Please order separately.

7-09



39219 XFB

39219 XF **Instrument Rack,** with one irrigation block (standard version) for cleaning, sterilization and storage of up to 15 **Laryngo***FIT*® or 15 **Sinu***FIT*® instrument attachments and 6 handles, incl. variable bars with silicone holder and direct connection of the instrument attachments via a multi-port bridge to the washer-disinfector and Wire Tray 39502 ZB, external dimensions (w x d x h): 480 x 250 x 160 mm

39219 XFB **Same for Cleaning, Sterilization and Storage** of up to 15 **Laryngo***FIT*® or 15 **Sinu***FIT*® instrument attachments and 6 handles

Optional Accessory



39502 V

39502 V **Wire Tray for Cleaning, Sterilization and Storage** of instruments, with hole plate walls and foldaway handles, external dimensions (w x d x h): 228 x 248 x 45 mm

Components/Spare Parts see chapter 16
Further accessories for cleaning and sterilization see catalog HYGIENE
Please note: The instruments displayed are not included in the instrument racks.

7-09

Original KLEINSASSER **Instruments**

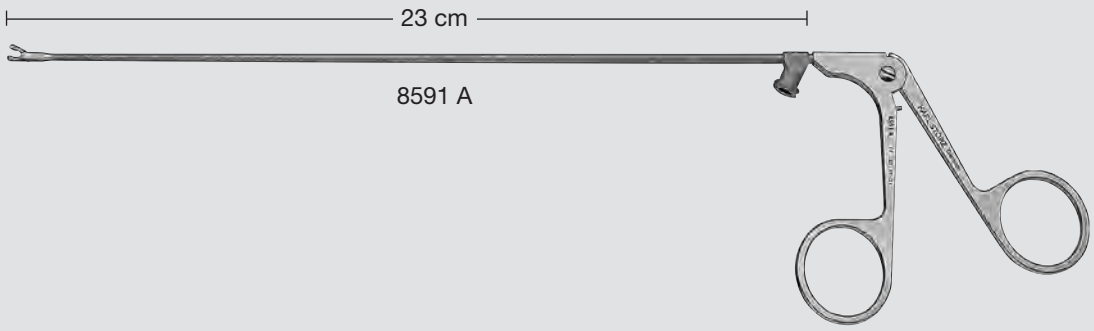
for Endolaryngeal Microsurgery

KARL STORZ — ENDOSKOPE

Working length 23 cm

Special Features:

- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**

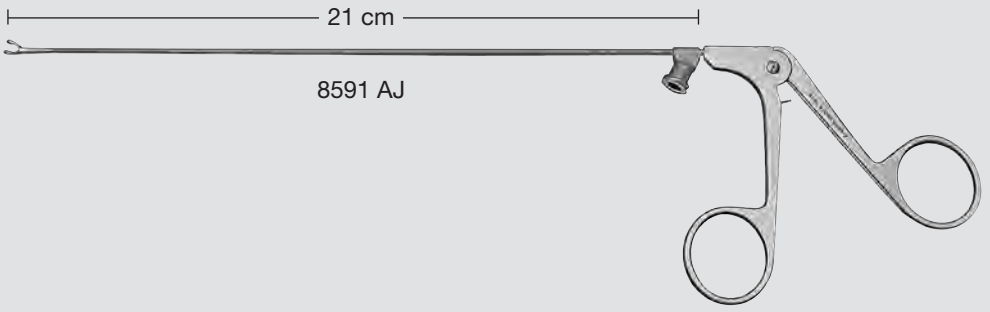




8591 A	KLEINSASSER **Cutting Forceps,** straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm
8591 B	**Same,** curved upwards
8591 C	**Same,** curved to right
8591 D	**Same,** curved to left
8591 EA	**Same,** with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to right
8591 FA	**Same,** with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to left

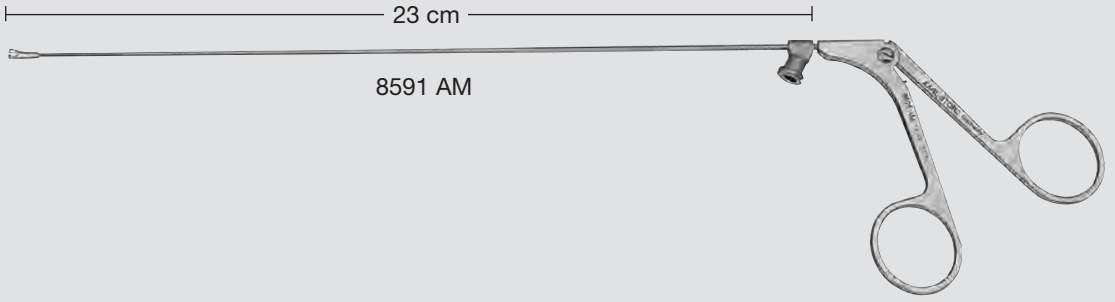
3-99$_3$

Working length 21 cm, for adolescents



	8591 AJ	KLEINSASSER **Forceps,** straight, with 2 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm
	8591 CJ	**Same,** curved to right
	8591 DJ	**Same,** curved to left

Working length 23 cm



	8591 AM	KLEINSASSER **Miniature Forceps,** straight, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm
	8591 BM	**Same,** curved upwards
	8591 CM	**Same,** curved to right
	8591 DM	**Same,** curved to left
	8591 EM	**Same,** curved upwards to right
	8591 FM	**Same,** curved upwards to left

11-03

Original KLEINSASSER **Instruments**

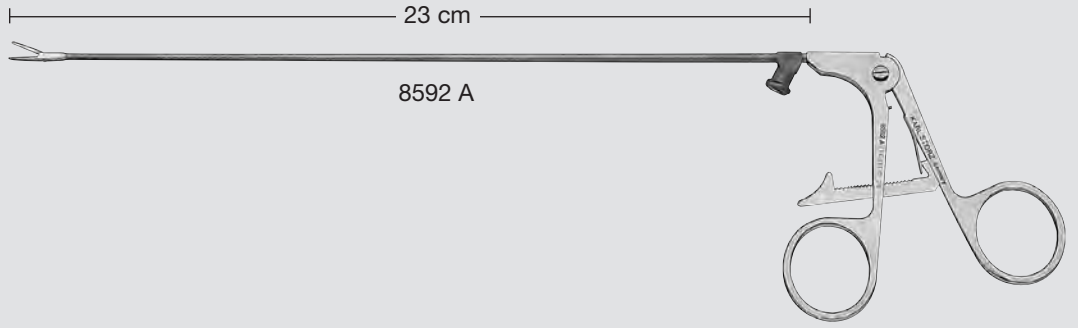
for Endolaryngeal Microsurgery

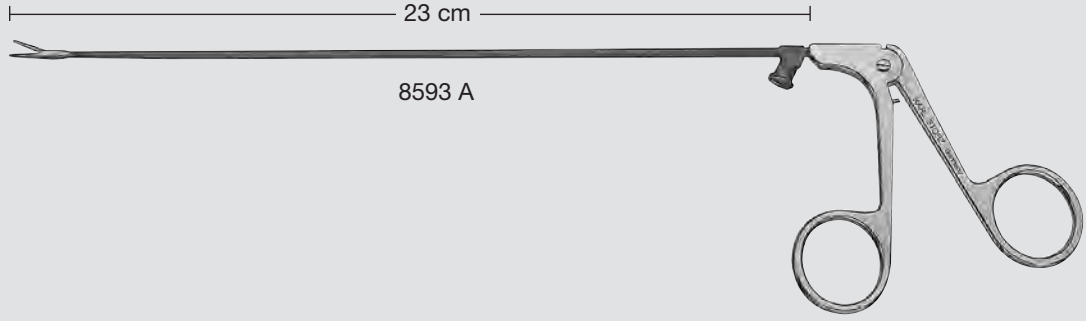
KARL STORZ — ENDOSKOPE

Working length 23 cm

Special Features:

- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**





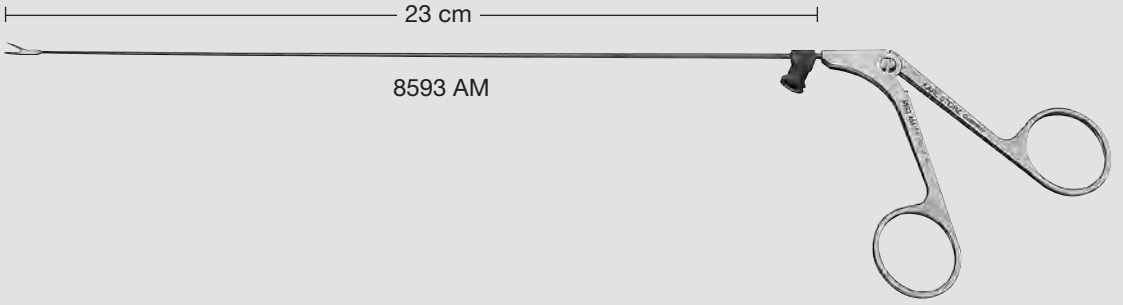
	8592 A	KLEINSASSER **Artery Forceps,** with ratchet, with cleaning connector, working length 23 cm
	8593 A	KLEINSASSER **Grasping Forceps,** without ratchet, serrated, straight, with cleaning connector, straight, working length 23 cm
	8593 B	**Same,** curved to right
	8593 C	**Same,** curved to left
	8593 E	**Same,** curved upwards
	8593 G	**Same,** with triangular jaws, curved upwards to right
	8593 H	**Same,** curved upwards to left

3-99₂

Original KLEINSASSER **Instruments**

for Endolaryngeal Microsurgery

Working length 23 cm





8593 AM — KLEINSASSER **Miniature Grasping Forceps,** straight, serrated, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm



8593 BM — **Same,** curved to right



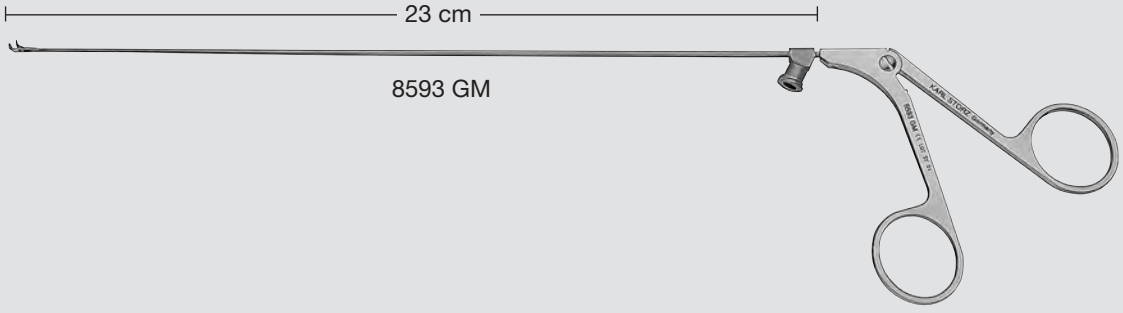
8593 CM — **Same,** curved to left



8593 EM — **Same,** curved upwards

Special Features:

- **Extra fine grasping forceps, with triangular fenestrated jaws, curved upwards to right or left**





8593 GM — **Miniature Grasping Forceps,** extra delicate, serrated, with triangular jaws, curved upwards to right, with cleaning connector, working length 23 cm



8593 HM — **Same,** curved upwards to left

11-03

Original KLEINSASSER **Instruments**

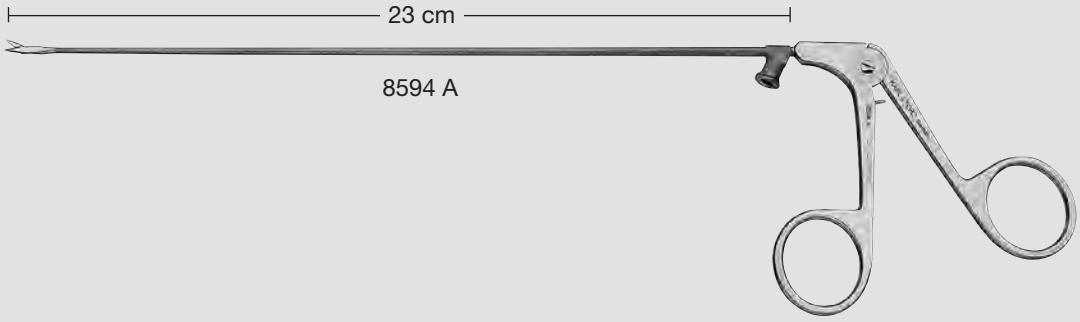
for Endolaryngeal Microsurgery

KARL STORZ — ENDOSKOPE

Special Features:

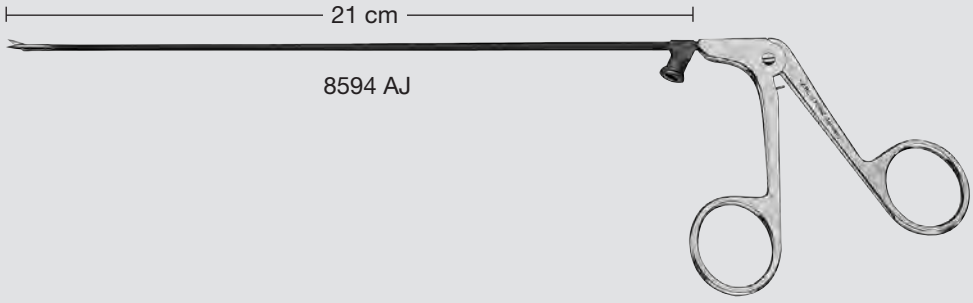
- **Excellent cutting performance with optimal transfer of strength**
- **Due to specially ground surface scissor blades stay sharper much longer**
- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**

Working length 23 cm



	8594 A	KLEINSASSER **Scissors,** straight, with cleaning connector, working length 23 cm
	8594 BB	**Same,** angled 15°
	8594 B	**Same,** angled 45°
	8594 C	**Same,** curved to right
	8594 D	**Same,** curved to left
	8594 E	**Same,** straight, cuts horizontally

Working length 21 cm, for adolescents



	8594 AJ	KLEINSASSER **Scissors,** straight, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm
	8594 CJ	**Same,** curved to right
	8594 DJ	**Same,** curved to left

4-95₂

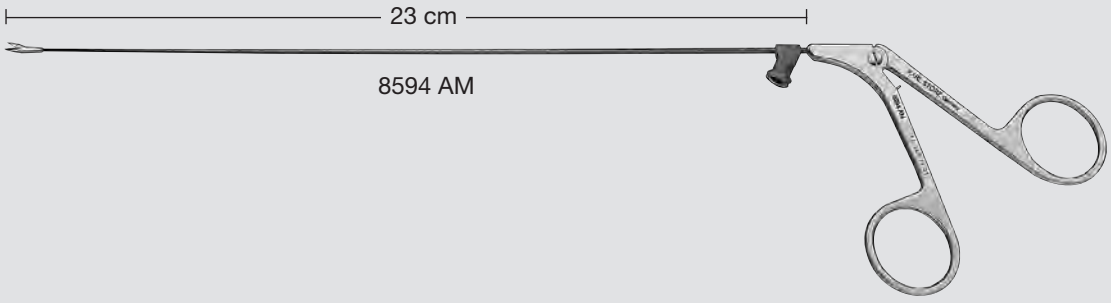
Original KLEINSASSER **Instruments**

for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**



	8594 AM	KLEINSASSER **Miniature Scissors,** straight, with cleaning connector, working length 23 cm
	8594 BM	**Same,** angled 45°
	8594 CM	**Same,** curved to right
	8594 DM	**Same,** curved to left

11-03

KLEINSASSER **LASER Additional Instruments**

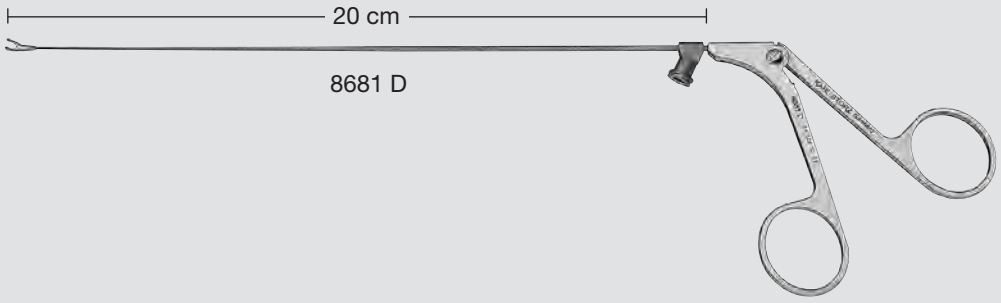
modified by SHAPSHAY/HEALY

for Laryngoscopy during Micro Spot LASER Treatment

Working length 20 cm

Special Features:

- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**





8681 A **Micro Forceps,** straight, with 1 mm cupped jaws, with cleaning connector, working length 20 cm



8681 B **Same,** curved upwards



8681 C **Same,** curved to right



8681 D **Same,** curved to left



8683 A **Micro Grasping Forceps,** straight, serrated, with cleaning connector, working length 20 cm



8683 B **Micro Grasping Forceps,** curved upwards, serrated, with cleaning connector, working length 20 cm



8683 C **Same,** curved to right



8683 D **Same,** curved to left

11-03₃

KLEINSASSER **LASER Additional Instruments**

modified by SHAPSHAY/HEALY

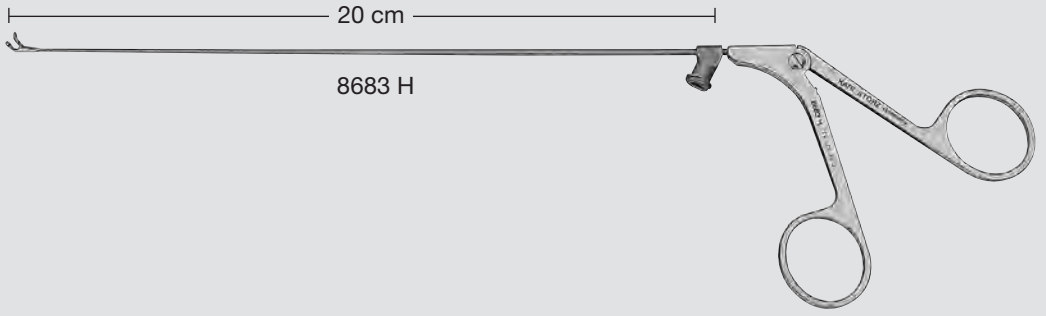
for Laryngoscopy during Micro Spot LASER Treatment

KARL STORZ — ENDOSKOPE

Working length 20 cm

Special Features:

- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**





8683 G — SHAPSHAY-PERETTI **Micro Grasping Forceps,** curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 20 cm



8683 H — **Same,** curved upwards to left



8684 A — **Micro Scissors,** straight, with cleaning connector, working length 20 cm



8684 B — **Same,** curved upwards



8684 C — **Same,** curved to right



8684 D — **Same,** curved to left



8686 A — **Micro Grasping Forceps,** straight, hollow jaws, serrated tips, opens horizontally to right, with cleaning connector, working length 20 cm



8687 A — **Micro Alligator Forceps,** both jaws open vertically, with suction channel to remove LASER vapors, with cleaning connector, working length 20 cm

11-03$_2$

KLEINSASSER **LASER Additional Instruments**

modified by RUDERT

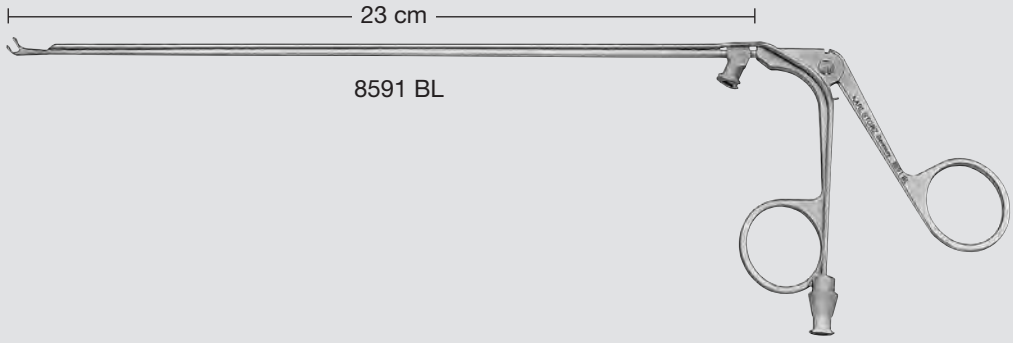
for Laryngoscopy during CO_2 LASER Treatment

KARL STORZ — ENDOSKOPE

Working length 18 and 23 cm

Special Features:

- **All instruments are equipped with a channel for evacuation of LASER vapors**
- **Special matt finish for use with CO_2-LASER**
- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**





8591 AL — **Spoon Forceps,** straight, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 BL — **Spoon Forceps,** curved upwards, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 RL — KLEINSASSER **Forceps,** opens horizontally to right, with 2 mm cupped jaws, with cleaning connector, working length 23 cm



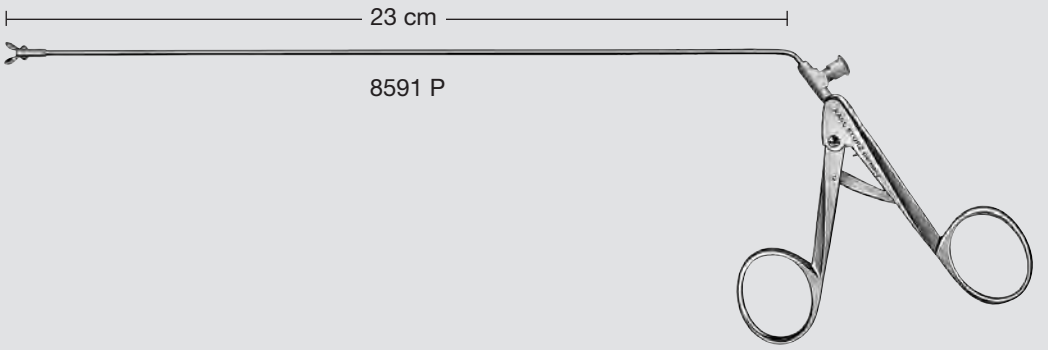
8591 SL — **Same,** opens horizontally to left



8591 TL — **Spoon Forceps,** straight, heavy model, diameter 4 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

11-03$_2$

Working length 23 cm

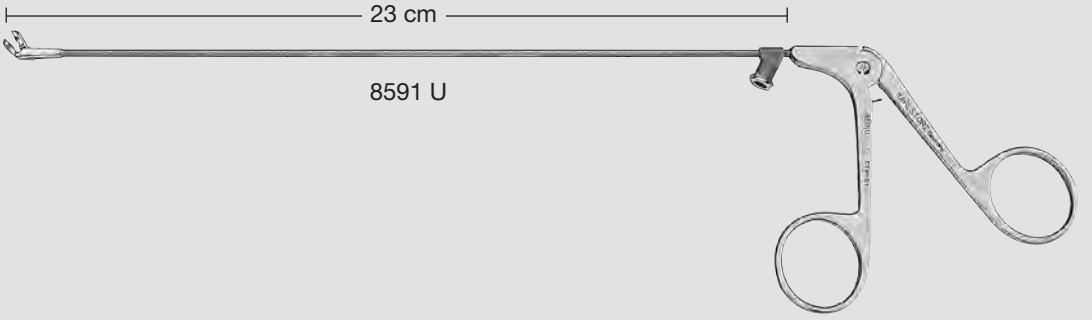




8591 P — **Spoon Forceps,** with cupped jaws, diameter 5 mm, robust model, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm



8591 PL — **Forceps,** spoon-shaped, oval, width 4 mm, fenestrated, for biopsy, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm





8591 T — **Spoon Forceps,** with 4 mm cupped jaws, straight, heavy model, single action jaws, with cleaning connector, working length 23 cm



8591 U — **Same,** curved upwards



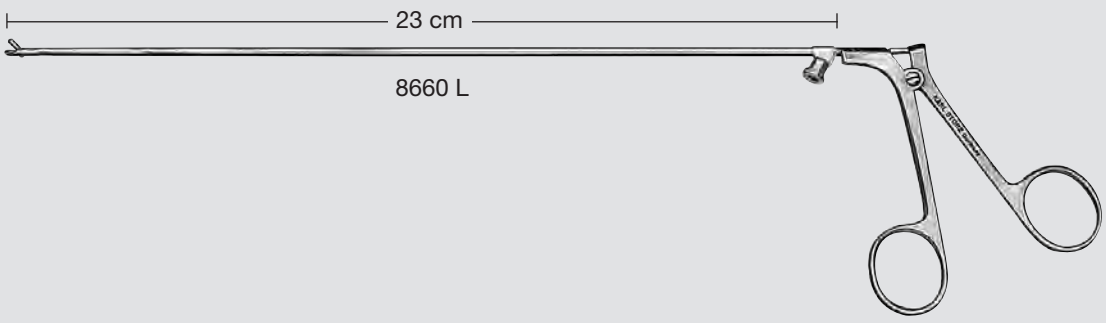
8591 V — **Same,** curved to right

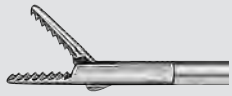


8591 W — **Same,** curved to left

11-03

Working length 23 cm

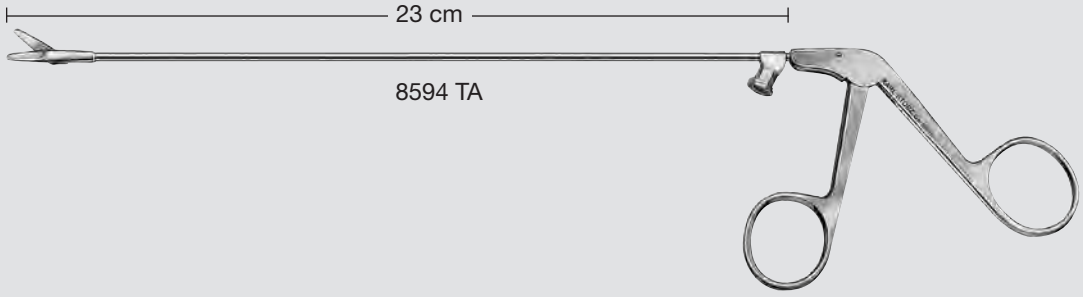




8660 H — KLEINSASSER **Alligator Grasping Forceps,** heavy model, single action jaws, with cleaning connector, working length 23 cm



8660 L — KLEINSASSER **Laryngeal Biopsy Forceps,** heavy model with oval jaws, size 3 x 4 mm, single action jaws, with cleaning connector, working length 23 cm





8594 TA — **LARYNGOFORCE® II Scissors for Large Tumors,** straight, robust model, cutting blade 10 mm, sheath diameter 3 mm, with cleaning connector, working length 23 cm

3-07₁

Original STEINER **Instruments**

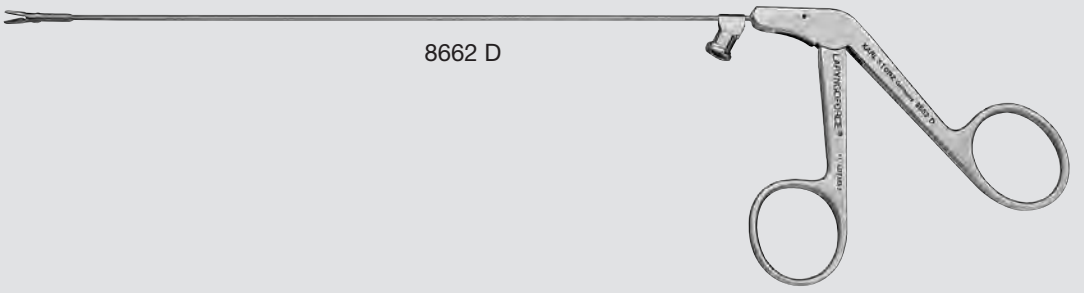
for Transoral LASER Microsurgery

The special laryngoscopes are supplemented by a set of newly developed micro-instruments:

- **Grasping Forceps** for gentle and yet effective grasping of tissue. They are available in five sizes, four of which feature an integrated smoke evacuation tube.

All instruments are manufactured with a special, matt finish, that diffuses the LASER beams. This is particularly advantageous during photo or video documentation, due to the elimination of interfering reflections.

Prof. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik, Göttingen, Germany



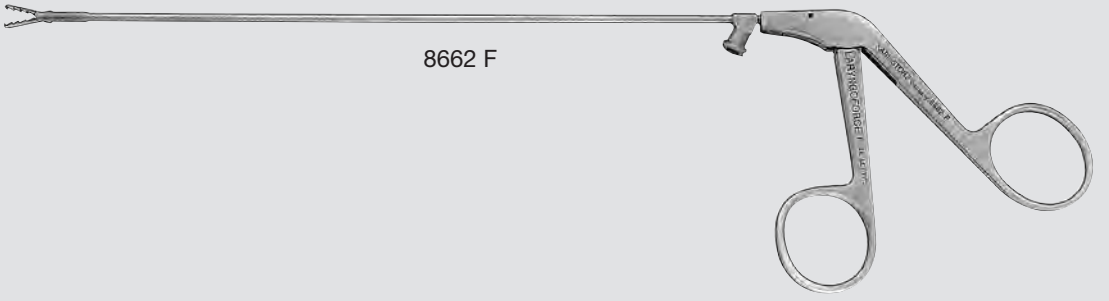
8662 D



8662 D — **LARYNGOFORCE® II Grasping Forceps,** delicate, serrated, special matt finish, with cleaning connector, working length 22 cm



8662 E — **LARYNGOFORCE® II Grasping Forceps,** with oval alligator jaws, small, special matt finish, with cleaning connector, working length 22 cm



8662 F



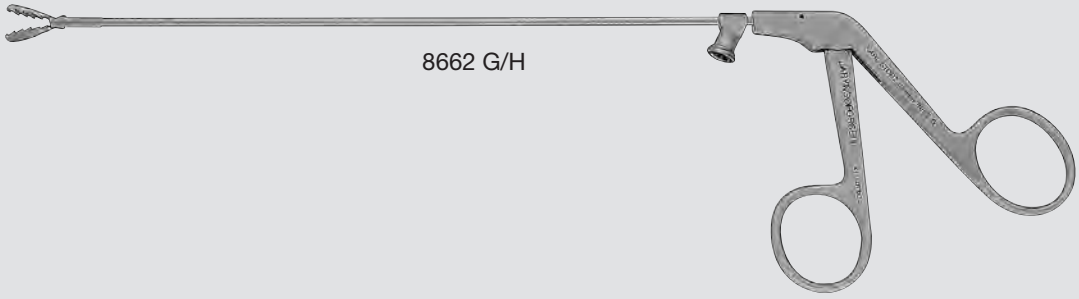
8662 F — **LARYNGOFORCE® II Grasping Forceps,** with oval alligator jaws, medium, special matt finish, with cleaning connector, working length 22 cm



8662 FL — **Same,** medium, with suction channel to remove LASER vapors

3-99$_2$

Working length 22 cm





8662 G — **LARYNGOFORCE® II Grasping Forceps,** with oval, fenestrated alligator jaws, large, special matt finish, with cleaning connector, working length 22 cm



8662 GL — **Same,** with suction channel to remove LASER vapors



8662 H — **LARYNGOFORCE® II Grasping Forceps,** with triangular, fenestrated alligator jaws, extra large, special matt finish, with cleaning connector, working length 22 cm



8662 HL — **Same,** with suction channel to remove LASER vapors

3-99₃

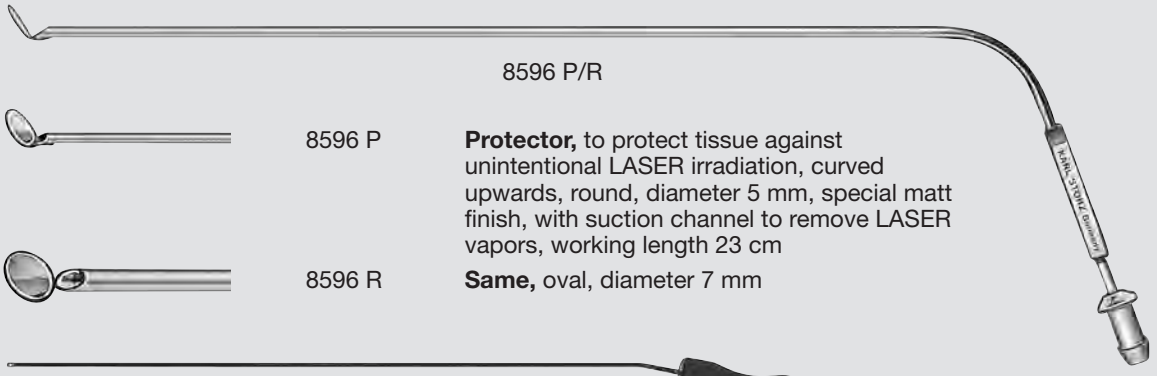
Original STEINER **Instruments**

for Transoral LASER Microsurgery

KARL STORZ — ENDOSKOPE

Special Features:

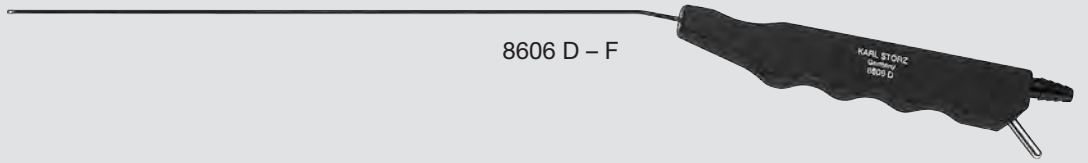
- **Protectors to shield distal mucosa from unintentional LASER irradiation, e. g. protection of the subglottis during LASER resection at the free edge of the vocal cord in unintubated patient. Available in diameter 5 mm and 7 mm, each with an integrated suction tube.**
- **Unipolar cannula for suction and coagulation, ergonomic handle enables steady and targeted work. Also suitable for dissecting and retracting tissue, insulated, with cleaning stylet and available in diameter 2, 2.5 and 3.5 mm.**
- **Suction tube with retractor and ergonomic handle for retracting tissue during LASER incisions. The straight distal end may also be used as a shield e. g. for protection of the contralateral vocal cord during LASER resection.**



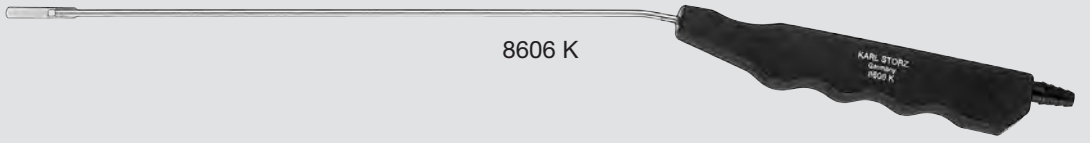
8596 P/R

8596 P — **Protector,** to protect tissue against unintentional LASER irradiation, curved upwards, round, diameter 5 mm, special matt finish, with suction channel to remove LASER vapors, working length 23 cm

8596 R — **Same,** oval, diameter 7 mm



8606 D – F



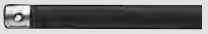
8606 K



8606 D — **Coagulation Suction Tube,** with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2 mm, working length 23 cm



8606 E — **Coagulation Suction Tube,** with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2.5 mm, working length 23 cm



8606 F — **Coagulation Suction Tube,** with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 3.5 mm, working length 23 cm



8606 K — **Suction Tube,** with ergonomic handle, with distal elevator 18 x 5 mm, for dissecting and retracting tissue, special matt finish, with Cleaning Stylet 8606 FM, outer diameter 3 mm, working length 23 cm

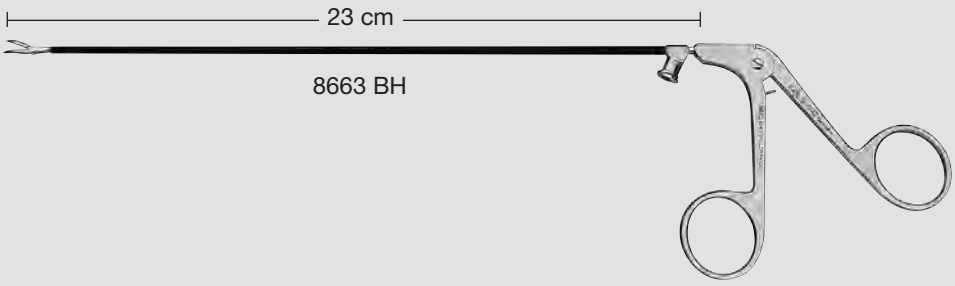
3-99$_2$

Please note:
Simultaneous use of insulated instruments and LASER is prohibited.

Original STEINER **Instruments**

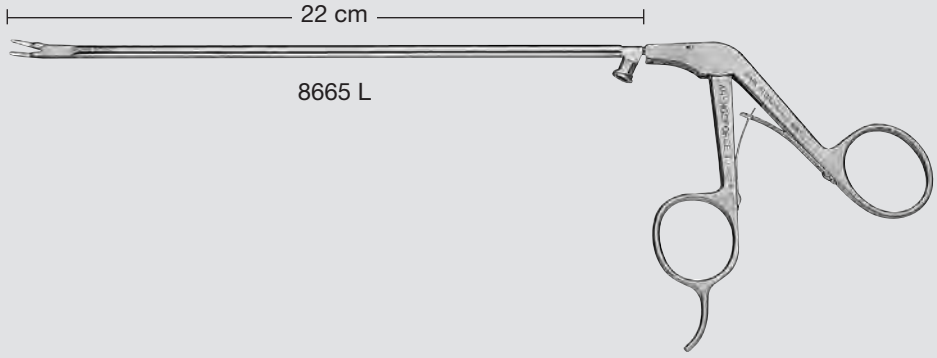
for Transoral LASER Microsurgery

KARL STORZ — ENDOSKOPE





8663 AH	**Grasping Forceps,** straight, serrated, sheath insulated, with cleaning connector, working length 23 cm
8663 BH	**Same,** curved to right
8663 CH	**Same,** curved to left





8665 L	**LARYNGOFORCE® II Clip Forceps,** jaws curved to left, with cleaning connector, working length 22 cm, for use with Clips 8665 T



8665 R	**Same,** jaws curved to right



8665 T	**Clip,** titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR

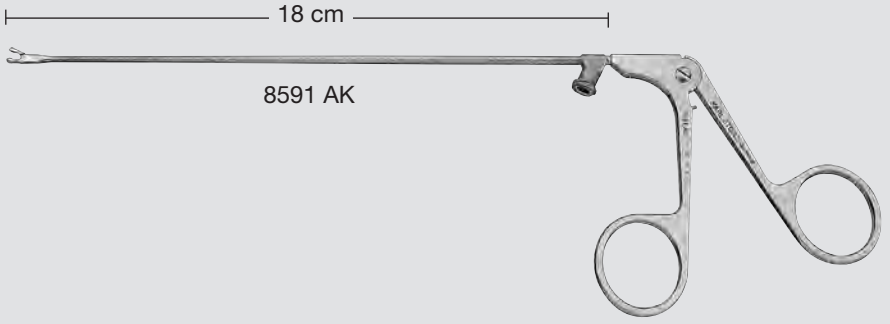
3-99$_3$

Please note:
Simultaneous use of insulated instruments and LASER is prohibited.

Working length 18 cm

Special Features:

- **Excellent cutting performance with optimal transfer of strength**
- **Due to specially ground surface scissor blades stay sharper much longer**
- **Distal end thinner than proximal end to provide better viewing**
- **Sheath conically reinforced from distal to proximal end to increase mechanical stability**

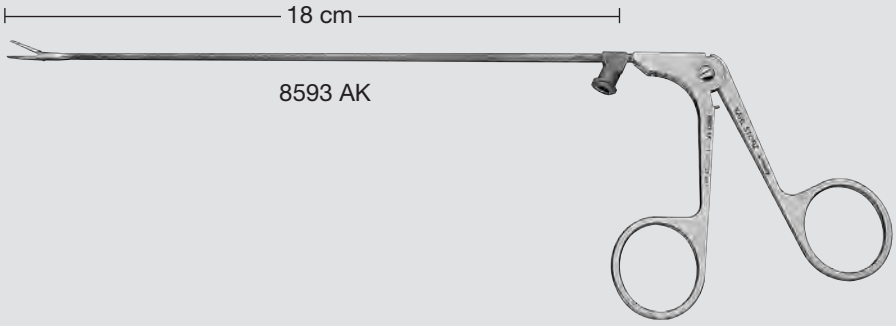


	8591 AK	KLEINSASSER **Forceps,** straight, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 BK	KLEINSASSER **Forceps,** upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 CK	KLEINSASSER **Forceps,** curved to right, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 DK	**Same,** curved to left

3-99$_3$

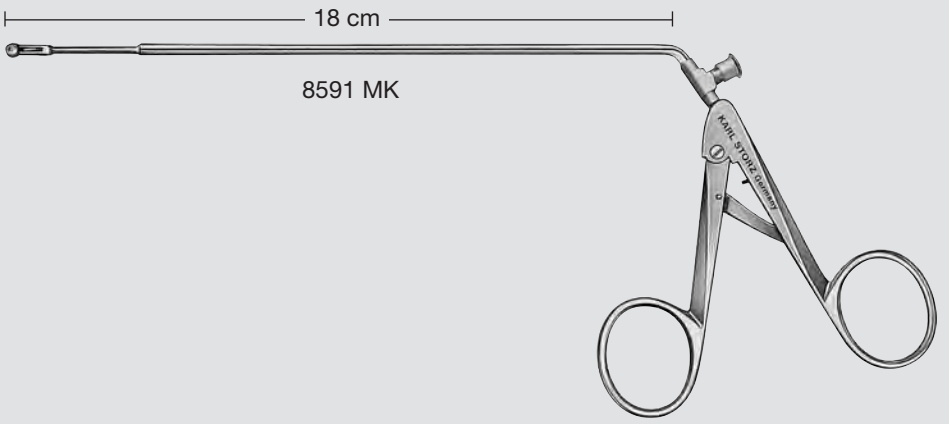
Pediatric Instruments

for Endolaryngeal Microsurgery



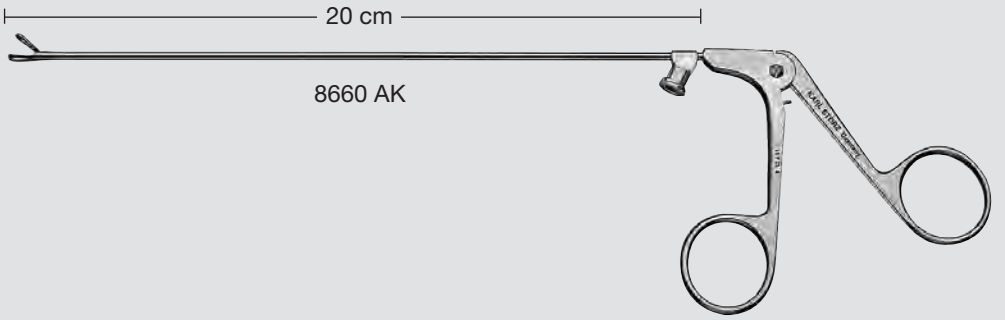
	8593 AK	KLEINSASSER **Grasping Forceps,** straight, serrated, with cleaning connector, working length 18 cm
	8593 GK	**Micro Grasping Forceps,** curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 18 cm
	8593 HK	**Same,** curved upwards to left
	8594 AK	KLEINSASSER **Scissors,** straight, with cleaning connector, working length 18 cm
	8594 CK	**Same,** curved to right
	8594 DK	**Same,** curved to left

3-99$_3$





8591 MK **Spoon Forceps,** jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm



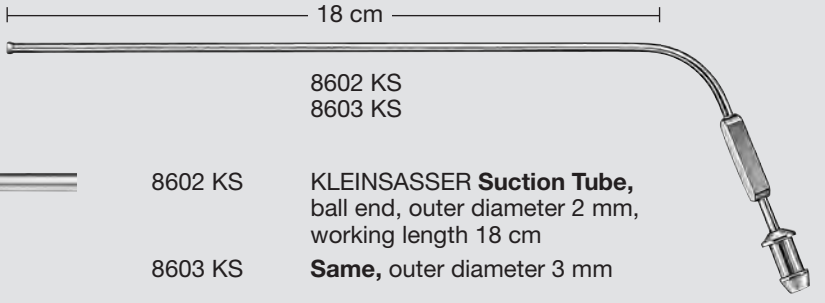


8660 AK **Grasping Forceps,** for arytenoid cartilage, serrated, width of jaws 5 mm, with cleaning connector, working length 20 cm





27200 SK **Injection Cannula,** short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3





8602 KS KLEINSASSER **Suction Tube,** ball end, outer diameter 2 mm, working length 18 cm

8603 KS **Same,** outer diameter 3 mm

3-99$_2$

WENDLER **Needle Holder**

for Endolaryngeal Microsurgery

KARL STORZ — ENDOSKOPE

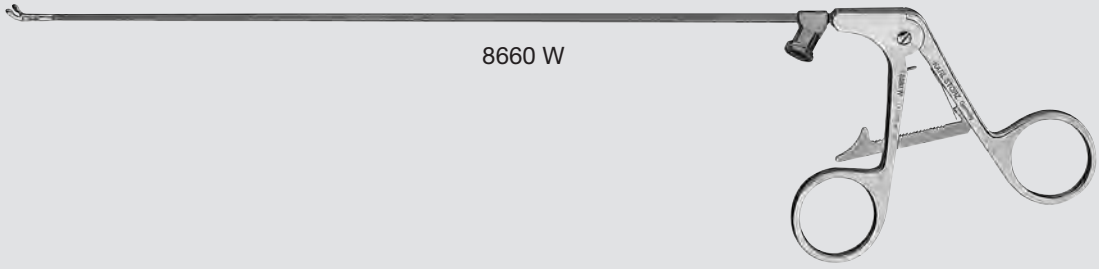
When performing surgical interventions in direct laryngoscopy, any necessary endolaryngeal suture is usually complex because the confined space leaves little room for needle guidance. Particularly in the craniocaudal direction, as is the case with suture at the margins of the vocal cords, it can be difficult to place the needle correctly with a straight needle holder because it only allows parallel gripping by the grasping jaws in the direction of the sheath. It twists slightly and does not remain under adequate control.

The needle holder bent upward grips the needle in an optimal position and permits punctures in the direction of the sheath without any problems. It is recommended that the tissue to be sewn be tensioned with grasping forceps. For punctures to return the thread outward (caudiocranial) both straight and angled needle holders can be used, depending on specific conditions. A knot pusher for immobilizing the knot is indispensable in all cases.

The new needle holder was initially developed for glottal surgery to shorten the glottis, serving to raise the pitch of the voice in transsexual patients. But also in the case of arytenoidectomy, synechia resections, and traumatic lesions of varying genesis (also during endolaryngeal operations) there is frequently a need for suture in the direction of puncture described.

In all the cases the angled needle holder facilitates puncture guidance to optimally adapt the margins of the mucous membrane in the required plane.

J. WENDLER,
Universitätsklinikum Charité,
Abteilung für Phoniatrie, Berlin, Germany



8660 W



8660 W — WENDLER **Needle Holder,** delicate, curved upwards, for glottal surgery, arytenoidectomy and other endolaryngeal interventions, sheath conically reinforced from distal to proximal end, with ratchet, with serrated round jaws, diameter 1.6 mm, with cleaning connector, working length 23 cm

1-97

FEHLAND **Needle Holder**

for Endolaryngeal Microsurgery

KARL STORZ — ENDOSKOPE

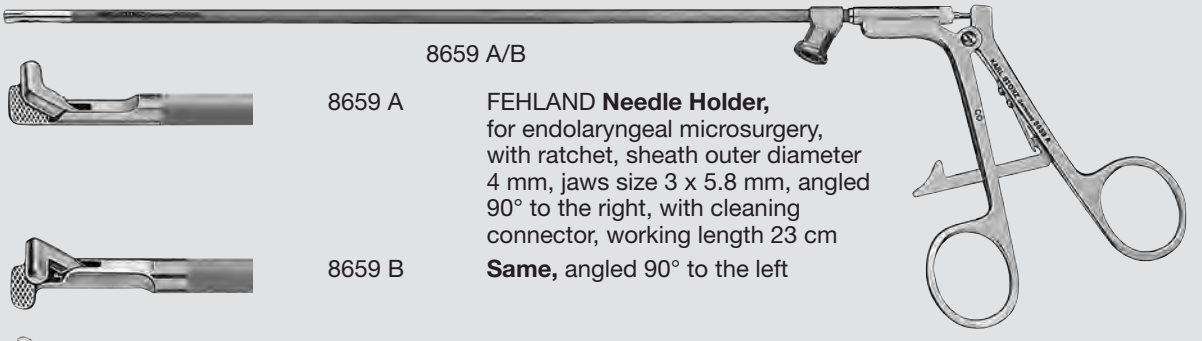
For interventions which require guidance of the needle parallel to the sheath during endolaryngeal microsurgery, locking and guidance of the needle without twisting and tilting is very difficult or impossible with conventional needle holders. Frequent repositioning of the needle with conventional needle holders is very time consuming, technically demanding and can unnecessarily traumatize tissue. A new needle holder was developed by Dr. FEHLAND in cooperation with KARL STORZ for the following applications:

- All suturing procedures particularly when the needle needs to be guided parallel to the needle holder sheath.
- For the creation of endolaryngeal swing flaps, arytenoidectomies, etc.
- For surgical elevation of the middle vocal register with displacement of the frontal vocal cord commissure (glottal graft).
- For vascular purse-string ligature in narrow lumen and hard-to-reach tissue areas.

P. FEHLAND, M. D.,
Universitätsklinikum Benjamin Franklin,
Abteilung für Phoniatrie, Berlin, Germany

Special Features:

- **Available in 2 designs with 90° lateral jaw angle to right or left, providing a uniquely wide useable angle of over 180°**
- **Specially cross-corrugated jaw surfaces and a locking handle with a ratchet mechanism ensure stable grasping and needle handling without twisting or turning**
- **Suitable for both straight and curved needles of varying lengths and curvatures, regardless of grasping angle**
- **Slim and yet very stable sheath, matt finish for low reflection**
- **Improved view of the operation field with the needle guide parallel to the sheath, e.g. subglottal-glottal and vice versa**
- **Easy and safe use with less maneuvering and minimized tissue trauma**
- **Small size with delicate jaws recommended for phonosurgery, working length 20 cm**



8659 A/B

	8659 A	FEHLAND **Needle Holder,** for endolaryngeal microsurgery, with ratchet, sheath outer diameter 4 mm, jaws size 3 x 5.8 mm, angled 90° to the right, with cleaning connector, working length 23 cm
	8659 B	**Same,** angled 90° to the left
	8659 C	FEHLAND **Needle Holder,** small model, for phonosurgery and endolaryngeal microsurgery, with ratchet, sheath diameter 3 mm, jaws size 2 x 4 mm, angled 90° to the right, with cleaning connector, working length 20 cm
	8659 D	**Same,** angled 90° to the left



The first stitch is completed; preparation of the second stitch



The second stitch is also completed

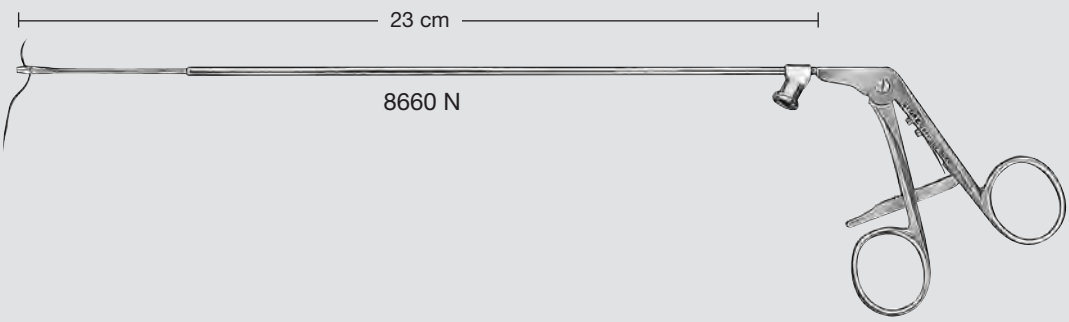


Preparation of the third stitch

3-99₂

KLEINSASSER **Needle Holder**

for Endolaryngeal Microsurgery





8660 N KLEINSASSER **Needle Holder,** delicate, straight, serrated jaws, size 1.8 x 3.5 mm, sheath conically reinforced from distal to proximal end, with ratchet, with cleaning connector, working length 23 cm

3-071

Distending Forceps, LASER Application Instrument

for Endolaryngeal Microsurgery

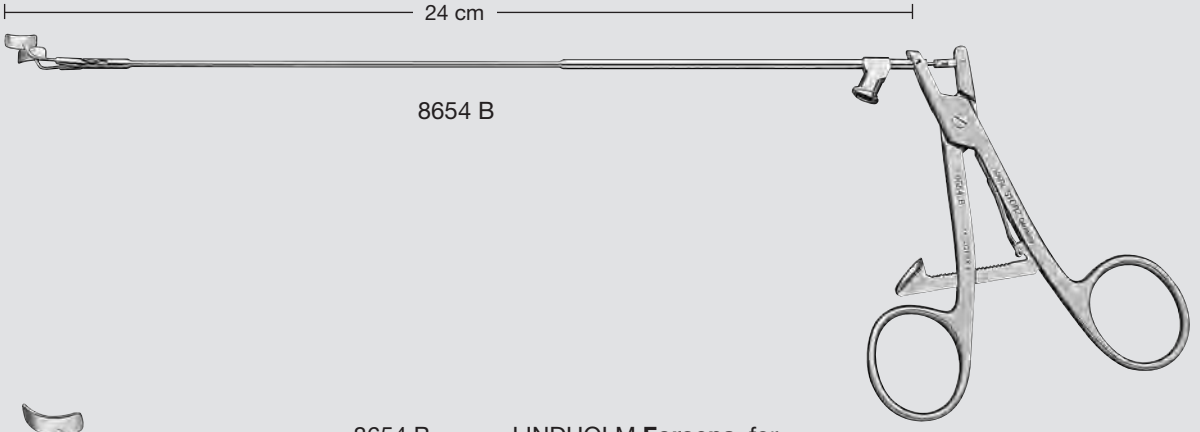
KARL STORZ — ENDOSKOPE

LINDHOLM **Distending Forceps**

In many instances, retraction of the false vocal cords, the true vocal cords or other soft tissue is temporarily needed during an endoscopic procedure. For LASER surgery of limited vocal cord carcinoma it is, for instance, very convenient to be able to visualize more of the upper surface of the vocal cords by retraction of the false vocal cords. Similar retraction of the true vocal cords gives better access to subglottic pathology.

For endoscopic surgery the key problem is often the difficulty of obtaining access to the target. These retractors are a valuable addition to the wide range of new endoscopic instruments which enables further versatility of endoscopic procedures.

C.-E. LINDHOLM, M. D.,
Uppsala, Sweden





8654 B — LINDHOLM **Forceps,** for atraumatic retraction of true vocal cords and false vocal cords, distal end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm

3-99$_3$

WOO/SHAPSHAY/OSSOFF **Microsurgical Instruments for Phonosurgery**

KARL STORZ — ENDOSKOPE

Special Features

- **Universal handle is fully adjustable, providing various working lengths**
- **Slender construction allows direct view without glare**
- **Instruments can be rotated 360° in the universal handle**



8656 A



8656 A **Sickle Knife,** curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 B **Same,** straight cutting



8656 C **Round Knife,** vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 D **Lancet Knife,** straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm

8656 E **Needle,** straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm

8656 F **Hook 90°,** 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 G **Same,** 2 mm



8656 J **Dissector,** straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm

1-94₂

WOO/SHAPSHAY/OSSOFF **Microsurgical Instruments for Phonosurgery**

KARL STORZ — ENDOSKOPE



8656 L — **Elevator,** slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 LS — **Same,** sharp tipm



8656 N — **Same,** angled 15°



8656 R — **Curette,** oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm

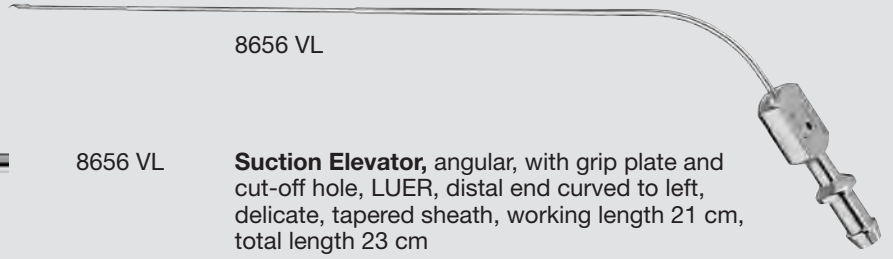


8656 S — **Same,** angled 35°



8657 H

8657 H — **Universal Handle,** forceps shape, with 2 handle rings, length 9 cm, for use with 3 mm instruments for phonosurgery and endolaryngeal microsurgery 8595 A – 8596 T, 8655 A – K and 8656 A – S



8656 VL



8656 VL — **Suction Elevator,** angular, with grip plate and cut-off hole, LUER, distal end curved to left, delicate, tapered sheath, working length 21 cm, total length 23 cm



8656 VR — **Same,** distal end curved to right

3-07

Original KLEINSASSER **Instruments**

for Endolaryngeal Microsurgery

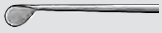
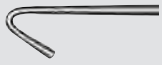
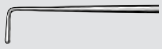
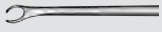
KARL STORZ — ENDOSKOPE

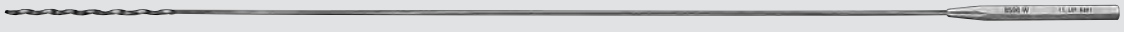
KLEINSASSER **Instruments, working length 23 cm, for use with Handle 8597**



8595 A

8597

	8595 A	**Knife,** oval, straight
	8595 B	**Same,** angled 45°
	8595 C	**Same,** sickle-shaped, curved, pointed
	8595 D	**Same,** straight cut, pointed
	8595 E	**Same,** golf club-shaped, curved, round
	8595 F	**Same,** round, cuts vertically
	8596 A	**Hook,** blunt, with probe end
	8596 B	**Hook,** sharp
	8596 C	**Hook,** blunt, angled 90°, with probe end, length 5 mm
	8596 E	**Needle,** curved to right, working length 23 cm
	8596 F	**Same,** curved to left
	8596 H	**Suction Elevator,** working length 23 cm
	8596 T	**Knot Tier**
	8597	KLEINSASSER **Handle,** for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B



8596 W

8596 W	**Cotton Applicator,** straight, working length 25 cm
8596 WJ	**Cotton Applicator,** for endolaryngeal microsurgery, straight, working length 21 cm
8596 WK	**Same,** working length 18 cm

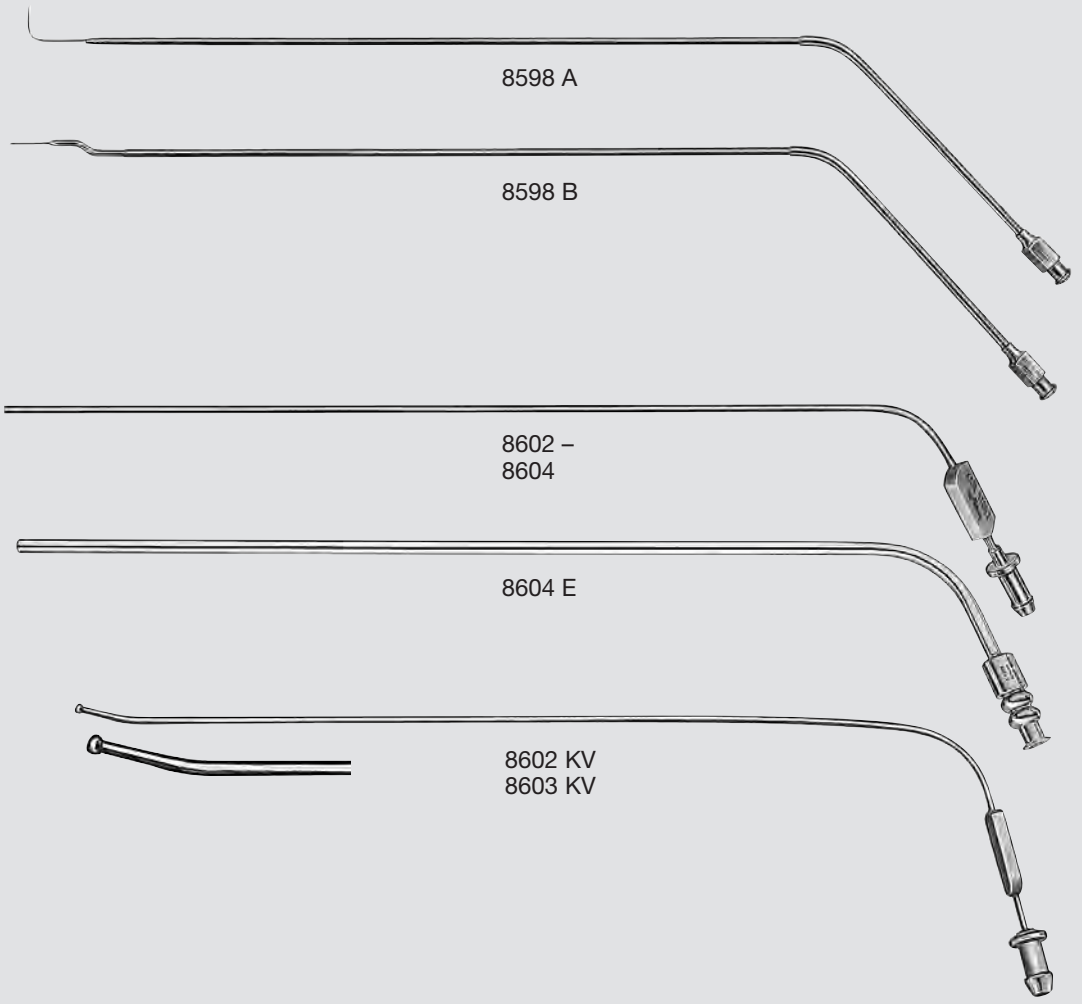
1-94₂

Original KLEINSASSER **Instruments**

for Endolaryngeal Microsurgery

KARL STORZ — ENDOSKOPE

Working length 23 cm



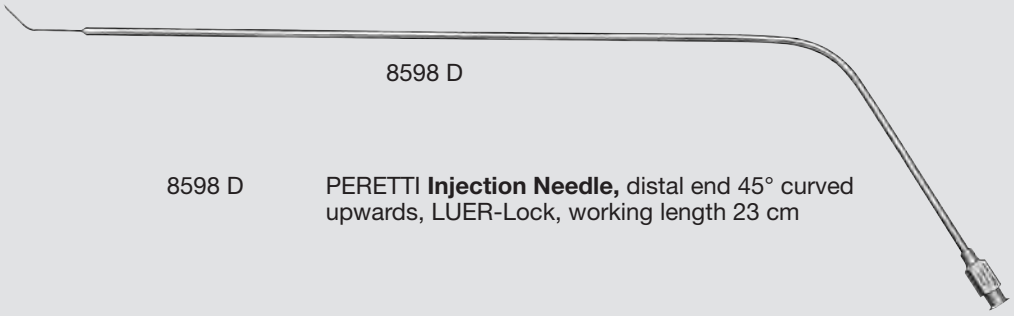
8598 A	KLEINSASSER **Injection Needle,** LUER-Lock, curved, working length 23 cm
8598 B	**Same,** straight
8602	KLEINSASSER **Suction Tube**, outer diameter 2 mm, working length 23 cm
8603	**Same,** outer diameter 2.5 mm
8604	**Same,** outer diameter 3 mm
8604 E	KLEINSASSER **Suction Tube,** outer diameter 4 mm, working length 23 cm

For use with KANTOR-BERCI **Video-Laryngoscopes**

8602 KV	KLEINSASSER **Suction Tube**, ball end, curved upwards, outer diameter 2 mm, working length 23 cm
8603 KV	**Same,** outer diameter 3 mm

3-99₂

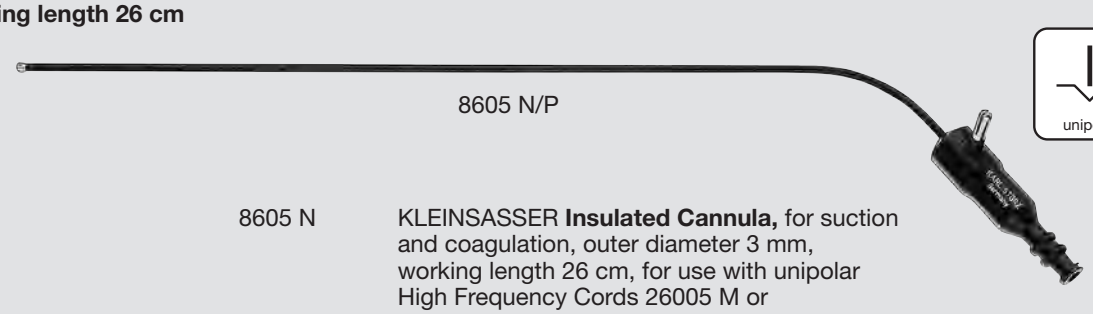
Working length 23 cm



8598 D

8598 D PERETTI **Injection Needle,** distal end 45° curved upwards, LUER-Lock, working length 23 cm

Working length 26 cm

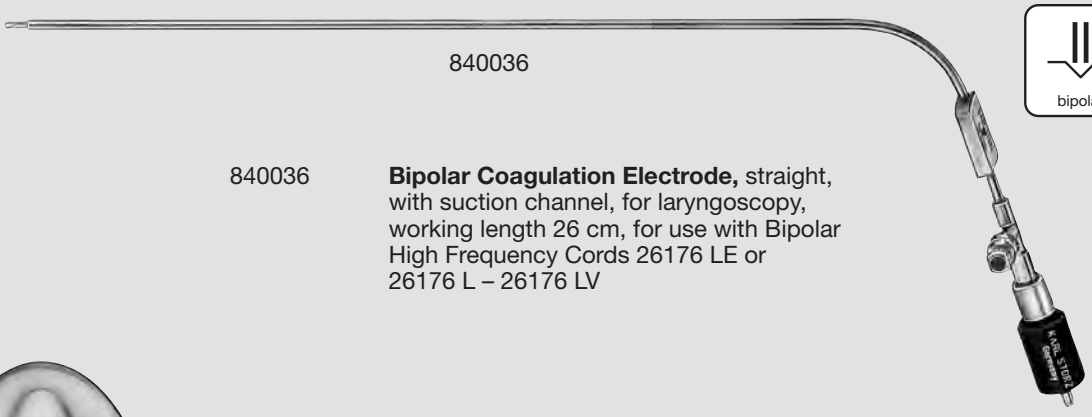


8605 N/P

unipolar

8605 N KLEINSASSER **Insulated Cannula,** for suction and coagulation, outer diameter 3 mm, working length 26 cm, for use with unipolar High Frequency Cords 26005 M or 26002 M/26004 M/26006 M

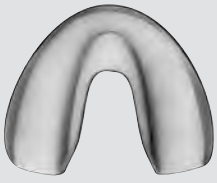
8605 P **Same,** outer diameter 5 mm



840036

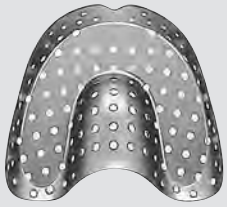
bipolar

840036 **Bipolar Coagulation Electrode,** straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV



8575 QS

8575 QS **Teeth Protector, silicone, autoclavable,** can also be used as inlay in metal teeth protector



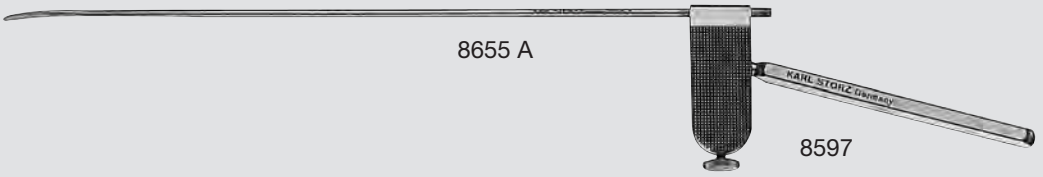
8575 RA – RD

8575 RA **Teeth Protector, metal,** large
8575 RB **Same,** medium
8575 RC **Same,** small
8575 RD **Same,** extra small

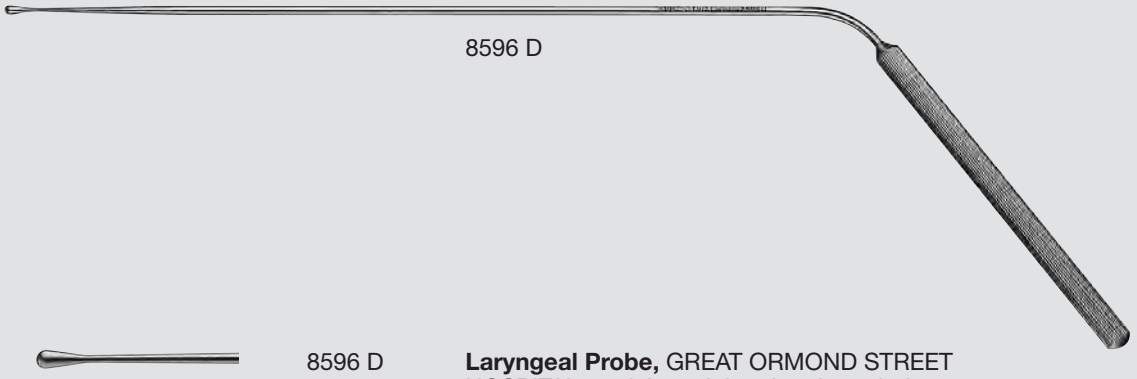
8-11

Additional Instruments

for Endolaryngeal Microsurgery



	8655 A	**Elevator,** slightly curved, working length 23 cm, for use with Handle 8597
	8655 C	**Same,** 90° curved
	8655 K	**Knife,** lancet-shaped, straight, working length 23 cm, for use with Handle 8597
	8597	KLEINSASSER **Handle,** for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B



	8596 D	**Laryngeal Probe,** GREAT ORMOND STREET HOSPITAL model, straight, sheath angled, round handle, working length 23 cm

3-99$_3$

KLEINSASSER **LASER Additional Instruments**

modified by SHAPSHAY/HEALY

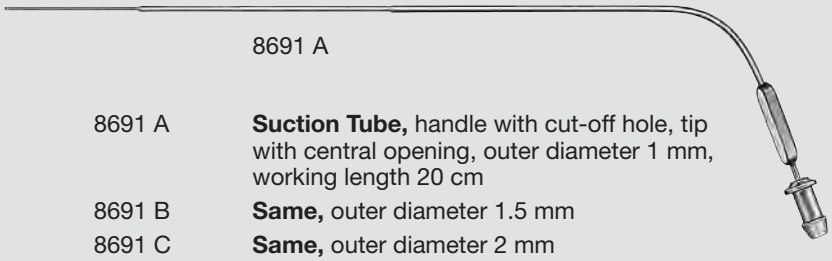
for Laryngoscopy during Micro Spot LASER Treatment

KARL STORZ — ENDOSKOPE

Working length 20 cm

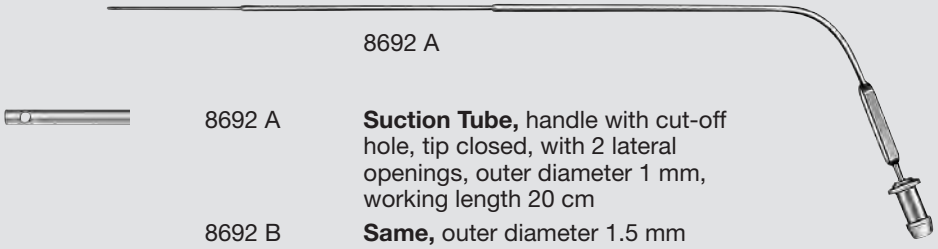
Special Features:

- **Extra fine sheath gradually reinforced from distal to proximal end**



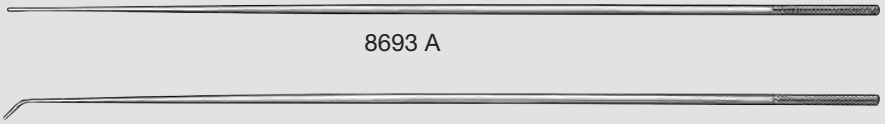
8691 A

8691 A	**Suction Tube,** handle with cut-off hole, tip with central opening, outer diameter 1 mm, working length 20 cm
8691 B	**Same,** outer diameter 1.5 mm
8691 C	**Same,** outer diameter 2 mm



8692 A

8692 A	**Suction Tube,** handle with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm, working length 20 cm
8692 B	**Same,** outer diameter 1.5 mm
8692 C	**Same,** outer diameter 2 mmn



8693 A

8693 B

8693 A	**Probe,** straight, diameter 1 mm, working length 20 cm
8693 B	**Same,** angled 45°



8597

8597	KLEINSASSER **Handle,** for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B

9-95

PERETTI **High Pressure Syringe**

for Fat Injection

PIAFI = Primary intracordal autologous fat injection following endoscopic chordectomy for glottal laryngeal carcinoma.

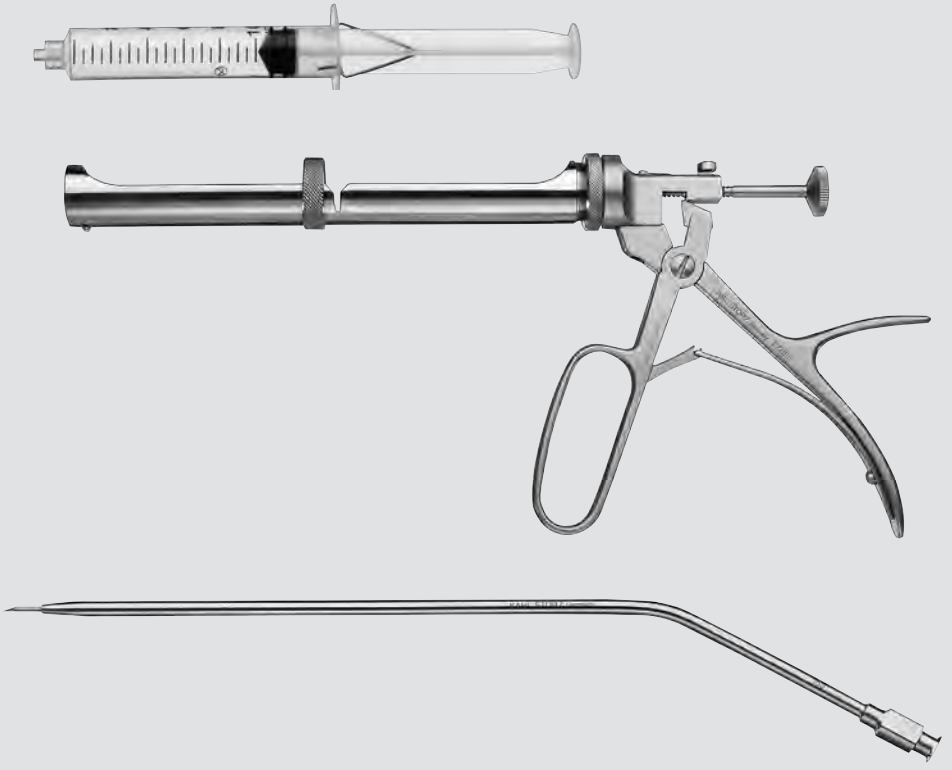
- **Chordectomy is the standard treatment for vocal cord carcinoma.**
- **For voice restoration, it is necessary to reconstruct the vocal cords either with synthetic or autologous material. In the case of the PIAFI technique, fat is injected with the PERETTI-BOLZONI instrument. The syringe for fat harvesting lies in the instrument as in a groove.**
- **Injection is performed by means of a cogwheel mechanism which releases 0.5 ml fat with each cogwheel click.**

Operative procedure:

- **In the case of the Peretti technique, the surgeon removes subcutaneous abdominal fat.**
- **Autologous fat is used for the vocal cords after a few minutes.**

Benefits of autologous fat injection:

- **No risk of rejection**
- **No allergic reactions**
- **Hardly any costs**
- **Only one operation**



771410 PERETTI **High Pressure Syringe,** for fat injection

including:

High Pressure Handle, for use with Syringe Holder 771412

Syringe Holder, for Plastic Syringe 771415,
for use with High Pressure Handle 27200

Pusher, for use with High Pressure Handle 27200
with Plastic Syringe 771415

Plastic Syringe, spring-action, self-retaining, 10 ml, sterile,
for single use, package of 25

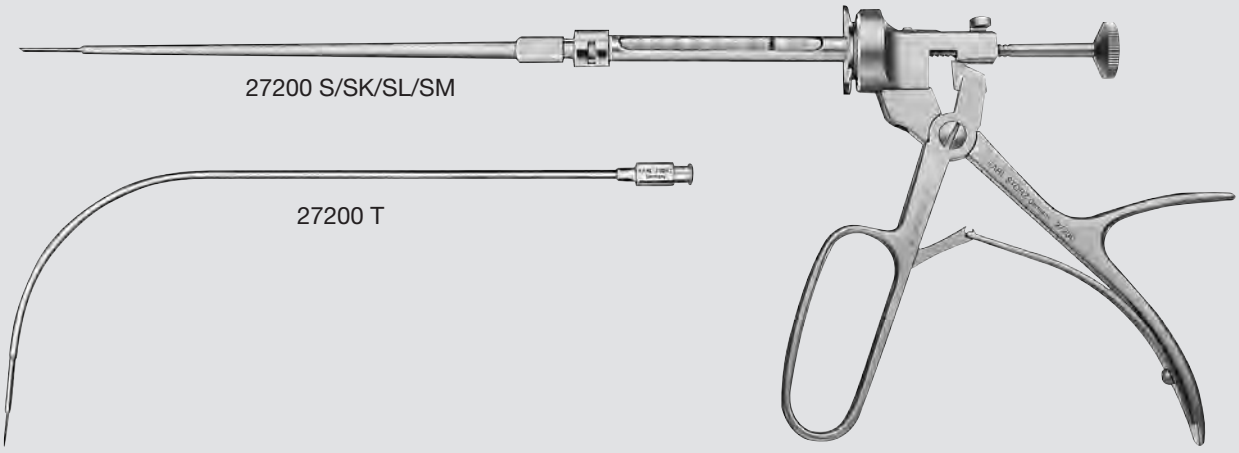
Injection Cannula, angular, LUER-Lock, tip outer diameter 1.3 mm,
inner diameter 0.8 mm, working length 20 cm, package of 3

3-07₁

Components/Spare Parts see chapter 16

High Pressure Syringe

for Viscous Fluid Injection, for Larynx



771400	**High Pressure Syringe,** for viscous fluid injection including: **High Pressure Handle,** for use with Syringe Holder 27201 Q **Adaptor,** for injection of viscous fluid, for filling plastic syringe, package of 3 **Plastic Syringe,** 1 ml, for single use, package of 100 **Syringe Holder,** for plastic syringe, package of 3 **Injection Cannula,** LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3
27200 SK	**Injection Cannula,** short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3
27200 SL	**Injection Cannula,** for single use, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 1.1 mm, working length 18 cm, package of 3
27200 SM	**Same,** working length 15 cm, package of 3
27200 T	JOUSSEN **Larynx Cannula,** curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3

8-875

Please note:
Collages are injected cool. If the material becomes warm it becomes rigid and can not be made liquid again by recooling.

Components/Spare Parts see chapter 16

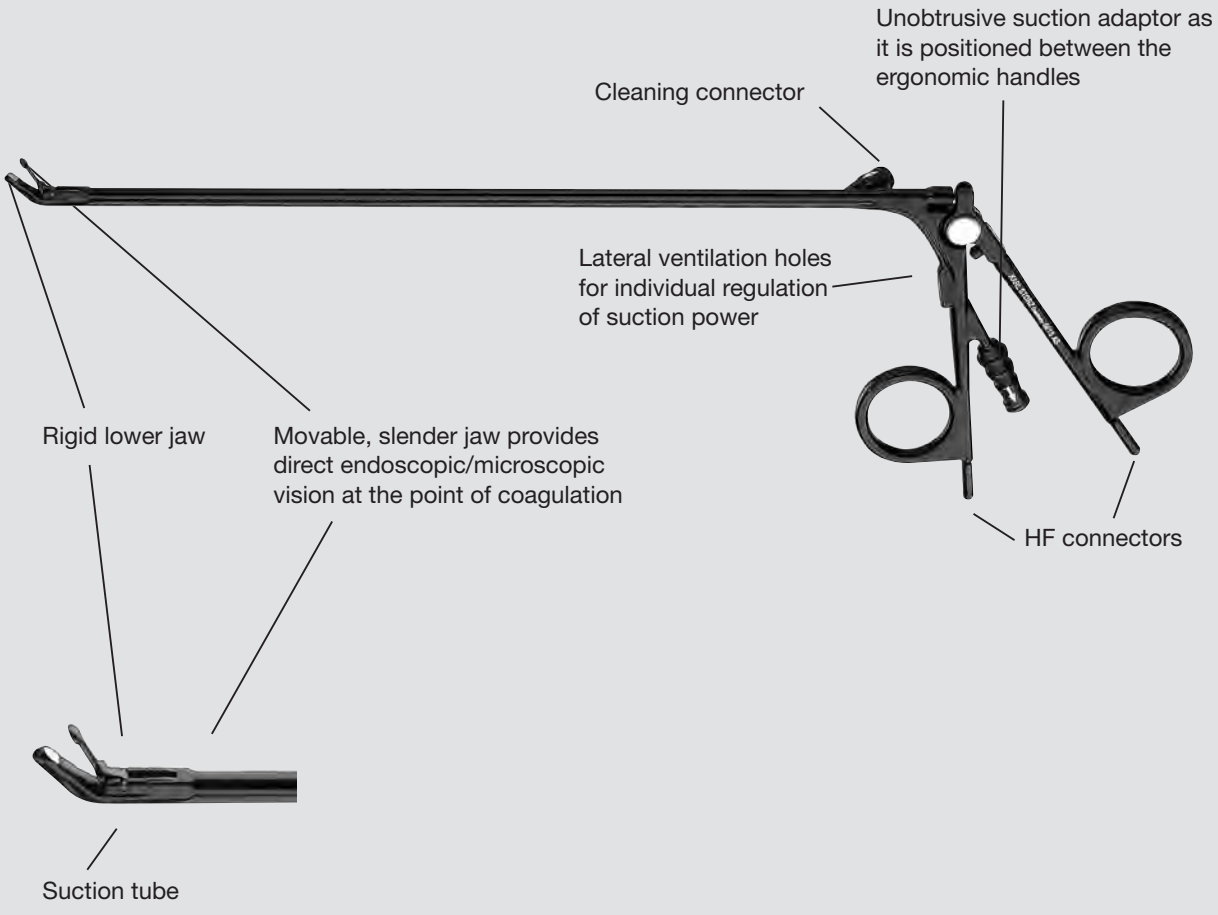
Bipolar Forceps

KARL STORZ — ENDOSKOPE

bipolar

Special Features:

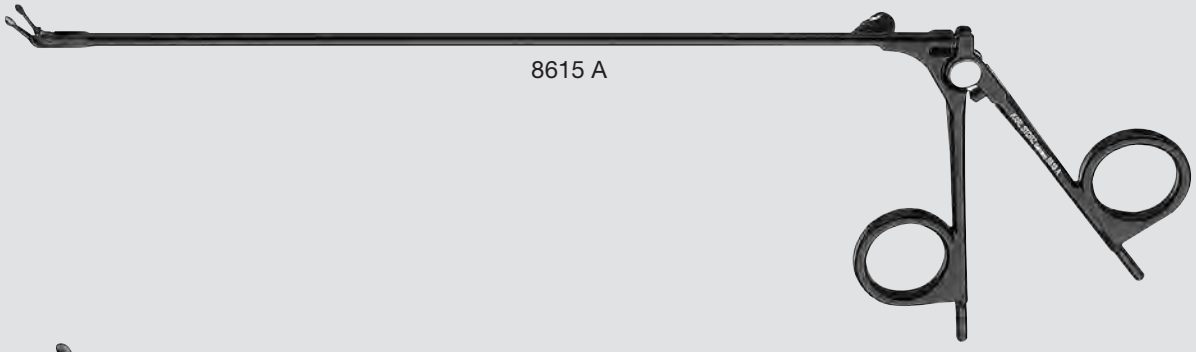
- **Bipolar coagulation**
- **Insulated except for small coagulation area on the instrument tip**
- **Single action jaws**
- **Distance between cautery poles may be varied, enabling punctual and extensive coagulation**
- **With and without suction**
- **Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation**
- **Slim design enables good availability of previously hard to reach regions for cauterization**



1-08

Bipolar Forceps

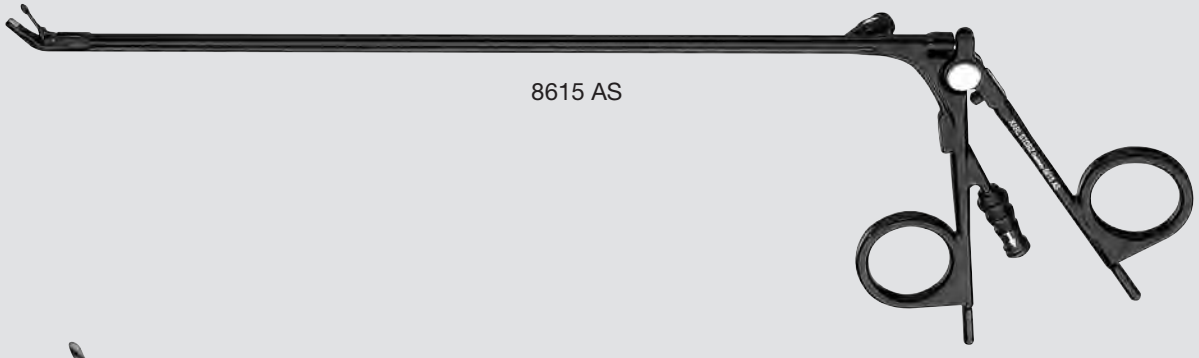
bipolar



8615 A



8615 A **Bipolar Forceps,** jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS

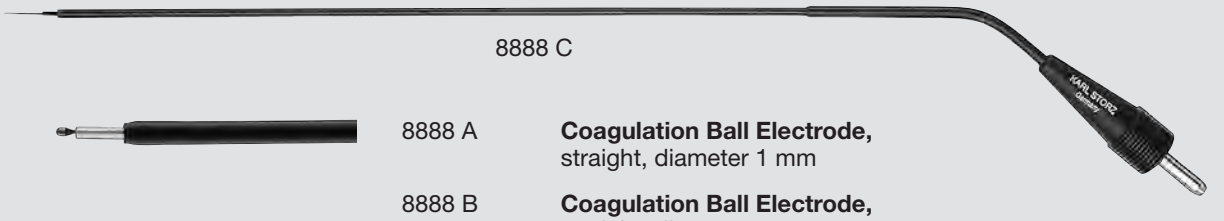


8615 AS **Bipolar Suction Forceps,** jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see chapter 8, pages 426-428

1-08

Working length 23 cm



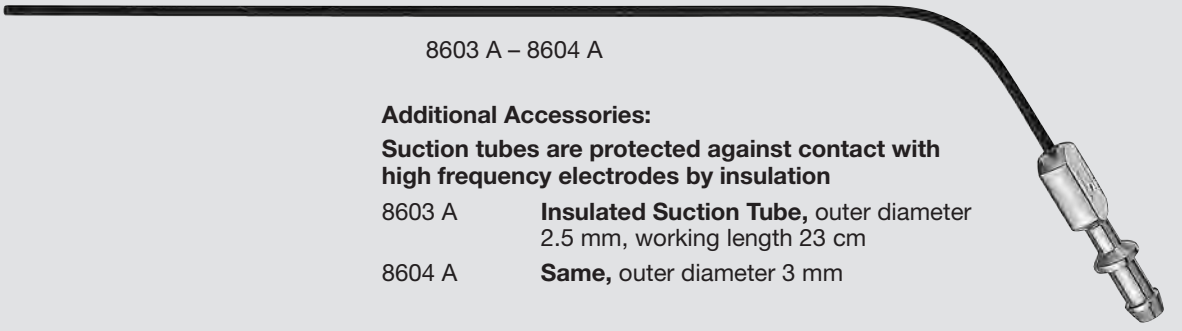
8888 C

8888 A **Coagulation Ball Electrode,** straight, diameter 1 mm

8888 B **Coagulation Ball Electrode,** straight, diameter 2 mm



8888 C **Cutting Electrode,** straight, diameter 0.45 mm



8603 A – 8604 A

Additional Accessories:

Suction tubes are protected against contact with high frequency electrodes by insulation

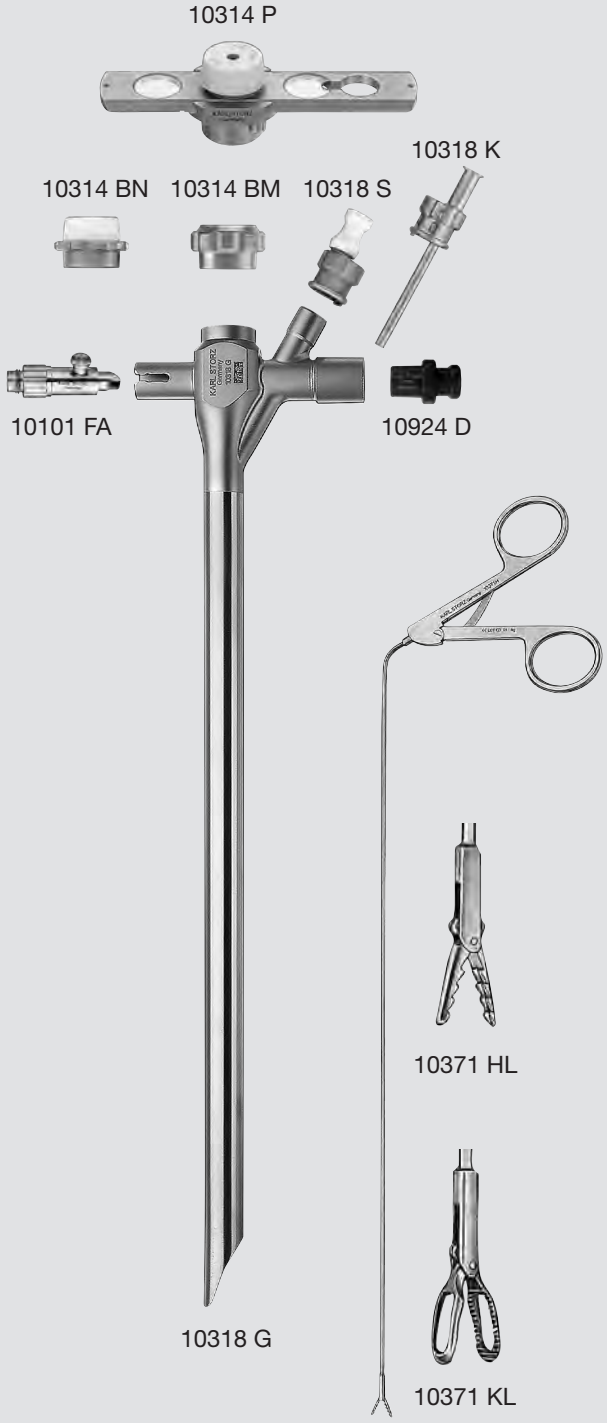
8603 A **Insulated Suction Tube,** outer diameter 2.5 mm, working length 23 cm

8604 A **Same,** outer diameter 3 mm

1-94₂

Electrode Handle 26 5200 43 and 26 5200 46 see chapter 8, page 424
Unipolar and bipolar high frequency cords see chapter 8, pages 426-428

Full Lumen Operating Tracheoscope



Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Prismatic light deflector which is inserted proximally ensures best illumination and enables full use of lumen through operation instruments**
- **Excellent view of operation area**
- **Round inner diameter enables bronchial bougies from 30 to 37 Fr. to be introduced**
- **Suitable for the application of bronchial stents**

10318 G	**Full Lumen Operating Tracheoscope,** size 14 mm, length 33 cm
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
10314 BM	**Glass Window Plug**
10314 BN	**Rubber Telescope Guide**
10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
10318 S	**Instrument Guide,** for suction catheter
10924 D	**Adaptor,** for respirator
10371 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
10371 KL	**Forceps,** for peanuts and soft foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm

Polyflex self-expanding silicon stents with polyester netting for maintaining air passage patency in cases of central airway stenosis and for bridging tracheo-oesphageal fistulus can be obtained from:

Willy Rüsch AG, P. O. Box 1180, D-72385 Kernen, Germany

For more forceps please see chapter 11-12, ESOPHAGOSCOPY – BRONCHOSCOPY

3-07$_1$

Dilation Tracheoscopes

GRONINGEN **Model**

KARL STORZ — ENDOSKOPE

Some tracheal stenoses can be treated endoscopically. An intubation laryngoscope, a dilation tracheoscope, telescope and suction tubes are required for this procedure.

The tracheoscope is available with a diameter of 8 mm or 12 mm. The size of the instrument is determined by the size of the larynx and the healthy portion of the trachea. There are numerous tiny openings in the distal end of the instrument which enable air to come through the middle of the stenosis. The proximal end of the instrument is designed in such a way that customary ventilation tubes and a telescope (30 cm) can be connected.

The intervention is carried out under general anesthesia. Following the administration of the anesthesia and with ventilation taking place via the anesthesia mask, the dilation tracheoscope is introduced under endoscopic control. The stenosis is visible through the vocal cords. The design of the tip which can be advanced forward through the stenosis ensures that the ventilation is maintained during this process. The conical construction of the tip enables the instrument to be advanced carefully up to the wider section of the tracheoscope, whereby the tracheoscope remains in place 5-10 minutes. The intervention is then completed.

Fig. 1 corresponds to the view through the telescope and shows the proximal part of the tracheal stenosis. The vocal cords are at the front of the picture. In Fig. 2 the stenosis can be seen in detail. Fig. 3 shows the stenosis following the dilation; Fig. 4 the healthy, distal trachea.

The constellation of instruments is suitable for treating most medium-sized stenoses (Myer-Corton 2nd degree). The intervention can be repeated after 6-24 months without difficulty.

F. G. DIKKERS, M.D., Groningen, The Netherlands

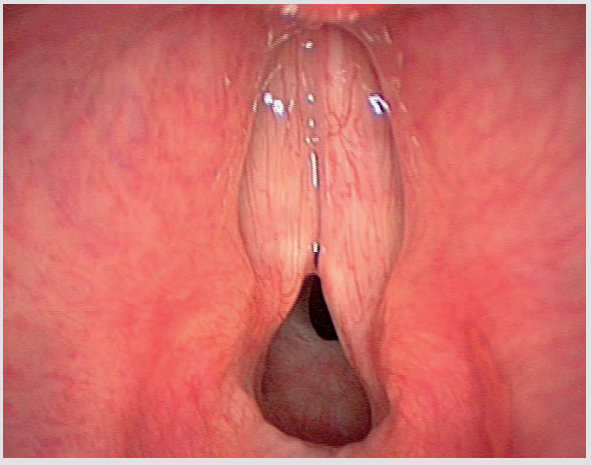


Fig. 1

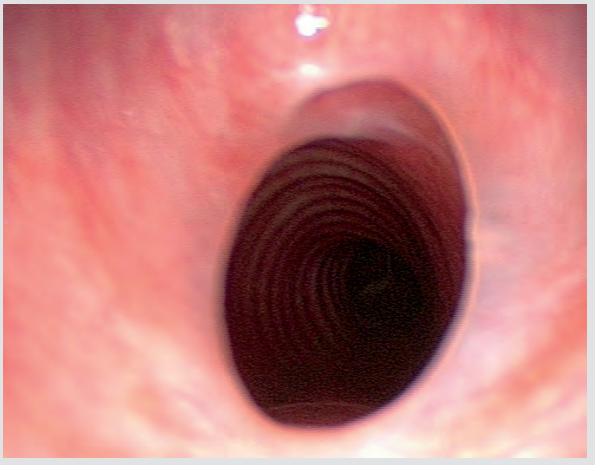


Fig. 2

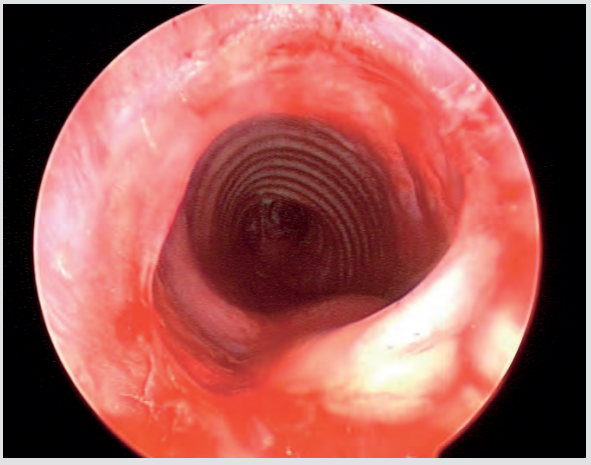


Fig. 3

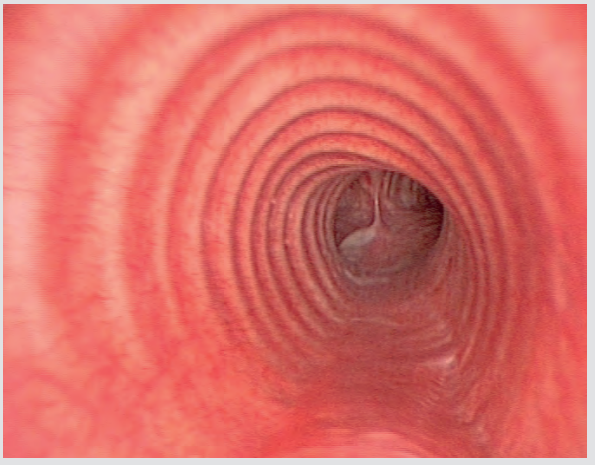


Fig. 4

11-03

Dilation Tracheoscopes

GRONINGEN **Model**



10337 R	**Optical Dilation Tracheoscope,** GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P
10337 S	**Same,** outer diameter 8 mm
10337 T	**Optical Intubation Tracheoscope,** GRONINGEN model including: **Sheath,** for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA **Distance Ring,** with fixation screw for length adjustment of the endotracheal tubes
10005 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
10005 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
10316 LR	**Adaptor,** for respirator
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable

11-03

Components/Spare Parts see chapter 16



ESOPHAGOSCOPY
DIVERTICULOSCOPY

HERRMANN **CMOS Video** NEW **Esopharyngoscope**

for Functional Diagnostics in Otorhinolaryngology

KARL STORZ — ENDOSKOPE

CMOS Video Esopharyngoscope for adults, without working channel,
working length 75 cm, diameter 3,7 mm

Special Features:

- Possibility of inversion up to 200°
- A cm-scale with special markings for every 5 and 10 cm – can be read as distance between the optical window to the vestibule of the nose
- Every 10 cm the distance from the optical window is visible as a figure beside the marking, e. g. 30 cm = 3; 50 cm = 5 or 70 cm = 7. This means that the height and caudal-cranial extent of a pathological process can be determined with an accuracy of up to less than 1 cm in the esophagus. This procedure is suitable for measuring extensive alterations.
- When the distal end is curved backwards by 200°, a 2.5 mm-scale is visible in the optical window on the sheath. The cm-scale is positioned in inversion beside the pathological process. The extension is read and recorded with the video-endoscope. It allows measuring the length of a change in the esophagus with an accuracy up to ±1 mm, whilst eliminating the parallax error. This procedure is suitable for measuring smaller processes outside the sphincter regions.
- The possibility of long-term endoscopy is comparable to pH-metry or impedancometry.

Fields of application

- Laryngopharynx
- Upper Esophageal Sphincter (UES)
- Cardia or Lower Esophageal Sphincter (LES)

Applications

- Stress endoscopy
- Polysomnoscopy
- Tracheobronchoscopy
- Combined endoscopy

Handling

The video esopharyngoscope is introduced transnasally. It is inserted into the pharynx under visual control. During this maneuver the functions of breathing, speaking, singing, coughing, swallowing water, liquid and solid food, etc. can be examined in the nose, rhinopharynx, velopharynx, oropharynx and larynx or laryngopharynx. This endoscopic procedure can be performed on adults without any medication. Administering decongestant nose drops with the addition of a few drops of e. g. oxybuprocaine (Novosine) is only advisable in the case of allergic patients and children on account of increased sensitivity or the narrower nasal passage.

To aid passage through the upper esophageal sphincter, the patient is given a glass of plain water (non-carbonated) and a straw. Once the optical window of the video esopharyngoscope is positioned above the postcricoidal region, the endoscope passes the upper sphincter after the first sip of water. This takes advantage of the physiological hypesthesia which occurs through the act of swallowing. The patient virtually drinks the endoscope. With the help of the patient, the optical window reaches the lower esophageal sphincter. Drinking plain water enables the endoscope to pass through the cardia. Stomach gas, the stomach's contents and the stomach wall can then be visualized via mucosal relief.

Field of application

Stress endoscopy

Following the transnasal introduction of the endoscope into the esophagus, the functions of the stomach, esophagus, pharynx and larynx can be simultaneously recorded with an ECG under the same conditions as a stress electrocardiogram. As the symptoms for cardiac disorders and gastric reflux are similar, differential diagnosis is important in this case. Respiration and reflux disorders in the esophagus, pharynx and larynx or resulting electrocardiographic changes are documented during an exercise stress test.

Polysomnoscopy (sleep endoscopy in conjunction with polysomnography)

Similar to stress endoscopy, a new diagnostic sleep endoscopy has been developed which combines polysomnography with somnoscopy (sleep endoscopy) on-line. The video esopharyngoscope is introduced as described above. In the sleep laboratory, the mechanisms of obstruction in the velopharynx, oropharynx and larynx regions that are observed and recorded during sleep endoscopy can be correlated on-line with polysomnographic data. This shows that there is a direct correlation between causes recorded by means of sleep registration and polysomnographic findings. Consequently, the significance of laryngeal obstruction mechanisms, which are responsible for 22% of all snoring and OSAHS problems, could be established. For the first time, a pretherapeutic diagnostic technique allows a prognosis on a postoperative outcome. This offers the possibility of objective quality control of the performed therapy during post-therapeutic follow-up.

A C-PAP or B-PAP machine is set up or adjusted under polysomnoscopic control. This ensures that OSAHS patients receive a higher standard of treatment.

3-11

Tracheobronchoscopy

Out-patient tracheobronchoscopy can be performed on patients (including children) in a sitting position. Following administration of decongestant nose drops and nasal decongestion, e.g. 2% oxybuprocaine is inhaled deeply through an atomizer. This maneuver is repeated every 2 minutes. One waits for about 4 minutes until the patient confirms anesthesia. The video esophagoscope is advanced to the vocal cord level and oxybuprocaine is applied as drops to the tracheal mucosa. It is then possible to advance to the tracheobronchial tree.

Combined endoscopy
(Functional analysis under visual control)

Using a Steri-Strip (6 × 50 mm = half-length (3M)), a Sleuth catheter (impedancometry) and a pH meter probe or manometer probe, for example, are placed in parallel (piggyback) on the video esopharyngoscope and mounted on the side of the fiberscope with cm-markings (up to 70 cm). The tip of the catheter or the probe must be visible in the optical window even when the endoscope is deflected. Following nasal decongestion, the piggyback system is inserted into the side of the nose which offers the most space for maneuver. After reaching the pharynx, the system passes the upper sphincter as described above. The plaster should not be wrapped around the instruments more than twice (max. 50 mm = half-length) so that it comes off easily in the stomach. Gentle counter-rotation of both piggyback components enables this fixation to be detached more quickly in the stomach.

Benefits of combined endoscopy:

- Introduction of probe or catheter under visual control, i.e. without gagging and without accidentally entering the larynx or the trachea
- Visualization of sensor position (sensor of the pH probe in the gaseous space of the stomach with correct pH values, but false interpretation)
- Visualization of the sensor or catheter position (i. e. kinked catheter in the esophagus)
- Prevention of blind measuring and, consequently, false interpretations via visualization and measurements

This new endoscopic technique offers improved functional diagnostics which is now performed under visualization in contrast to previous blind introduction. This opens up new dimensions and several possibilities for understanding mechanisms and pathomechanisms, for preventive medicine, and to develop more specific therapy plans.

A patient's case history and food diary (when, what, where, how long) – which records the type, time of day, and duration of food and drink consumption as well as any complaints – helps shorten the time required to perform medical examinations. Indications are also provided for, i. e. impedance measurement combined with pH-metry and/or simultaneous endoscopic long-term functional analysis. A more specific diagnosis can prevent the indiscriminate use of antacids and similar medications.

Prof. Dr. I. F. HERRMANN,
Düsseldorf, Germany

HERRMANN **CMOS Video** NEW **Esopharyngoscope**

for Functional Diagnostics in Otorhinolaryngology

KARL STORZ — ENDOSKOPE

The **CMOS video esopharyngoscope** features a compact and mobile solution thanks to its integrated light source and camera control unit.

Combined with the lightweight Monitor 8402 ZX and our KARL STORZ C-HUB® System, the **CMOS video esophagoscope** provides a convenient and fast solution for the doctor's office, house calls or consultation purposes.

Special Features:

- **Convenience thanks to all-in-one solution – the lightweight monitor combined with the CMOS video esopharyngoscope offer quick installation and great flexibility**
- **CMOS chip technology for good image quality**
- **Optimal field of view for excellent visualization of pathologies**
- **Large angle of view for optimal orientation**
- **Integrated LED light source for optimal illumination**
- **Replay of recorded video sequences and images via monitor**
- **Can be combined with the KARL STORZ C-HUB® system**
- **Sensitive yet robust control through ergonomic handle**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Sterilizable via EtO gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E**

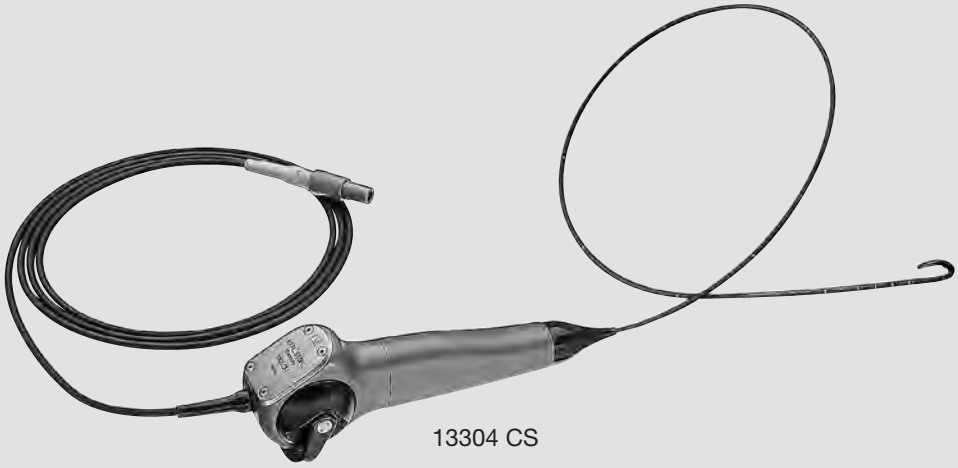


3-11

HERRMANN **CMOS Video** NEW **Esopharyngoscope**

for Functional Diagnostics in Otorhinolaryngology

KARL STORZ — ENDOSKOPE



13304 CS



8402 ZX

13304 CSK	**CMOS Video Esopharyngoscope KIT,** for use with Monitor 8402 ZX	
	Direction of view:	0°
	Angle of view:	85°
	Working length:	75 cm
	Outer diameter:	3.7 mm
	Deflection up/down:	210°/140°

Following accessories included:

13304 CS	**CMOS Video Esopharyngoscope**
13242 XL	**Leakage Tester,** with bulb and manometer
11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization
27677 FV	**Case**

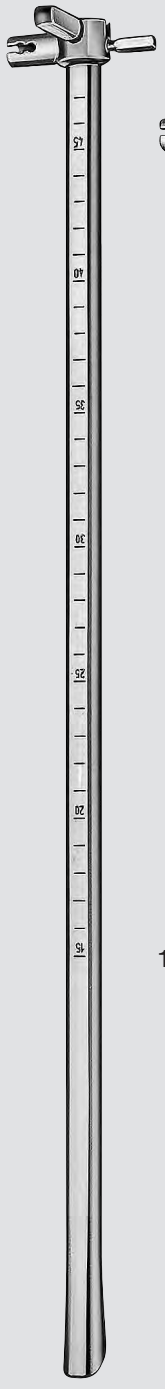
13304 CSM	**CMOS Video Esopharyngoscope with Monitor**	
	Direction of view:	0°
	Angle of view:	85°
	Working length:	75 cm
	Outer diameter:	3.7 mm
	Deflection up/down:	210°/140°

Following accessories included:

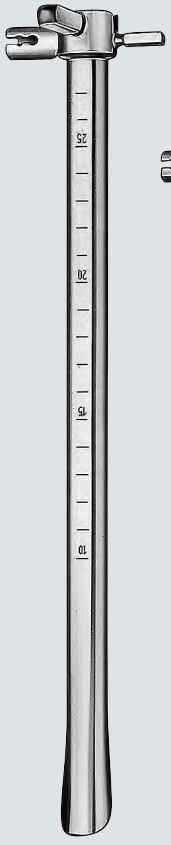
13304 CSK	**CMOS Video Esopharyngoscope KIT**
8402 ZX	**Monitor for CMOS endoscopes**

3-11

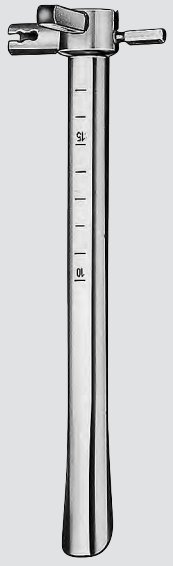
ROBERTS-JESBERG
Esophagoscopes and Hypopharyngoscopes
for Distal and Proximal Illumination



12060 A/C/E



12060 B/D/F/H



12060 R/S/T

Size 12 x 16

12060 AX	ROBERTS-JESBERG **Esophagoscope,** oval, size 12 x 16, length 55 cm
12060 A	**Same,** length 50 cm
12060 AW	**Same,** length 45 cm
12060 AV	**Same,** length 40 cm
12060 AU	**Same,** length 35 cm
12060 B	**Same,** length 30 cm

Size 10 x 14

12060 C	ROBERTS-JESBERG **Esophagoscope,** oval, size 10 x 14 mm, length 50 cm
12060 CV	**Same,** length 40 cm
12060 D	**Same,** length 30 cm

Size 8 x 12

12060 E	ROBERTS-JESBERG **Esophagoscope,** oval, size 8 x 12, length 50 cm
12060 EV	**Same,** length 40 cm
12060 F	**Same,** length 30 cm

Size 7 x 9

12060 H	ROBERTS-JESBERG **Esophagoscope,** oval, size 7 x 9, length 30 cm

Hypopharyngoscopes, length 20 cm

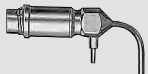
12060 R	ROBERTS-JESBERG **Hypopharyngoscope,** oval, size 12 x 16, length 20 cm
12060 S	**Same,** size 10 x 14
12060 T	**Same,** size 8 x 12

11-98$_3$

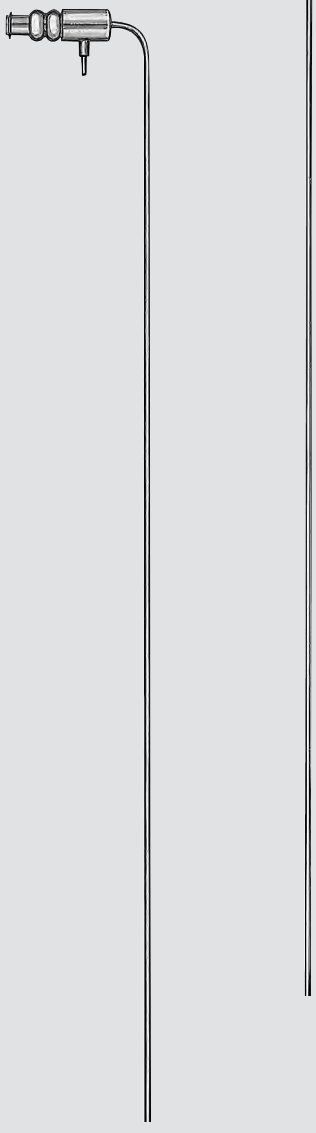


10101 FA

12061 A – C



12062 A – C



For proximal illumination

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

For distal illumination

12061 A	**Fiber Optic Light Carrier,** for use with esophagoscopes, length 50 cm
12061 AX	**Same,** for use with esophagoscopes, length 55 cm
12061 AW	**Same,** for use with esophagoscopes, length 45 cm
12061 AV	**Same,** for use with esophagoscopes, length 40 cm
12061 AU	**Same,** for use with esophagoscopes, length 35 cm
12061 B	**Same,** for use with esophagoscopes, length 30 cm
12061 C	**Fiber Optic Light Carrier,** for use with hypopharyngoscopes, length 20 cm

Additional Accessories:

12062 A	**Insertable Suction Tube,** for use with esophagoscopes, outer diameter 2 mm, length 50 cm
12062 AX	**Same,** for use with esophagoscopes, length 55 cm
12062 B	**Same,** for use with esophagoscopes, length 30 cm
12062 C	**Insertable Suction Tube,** for use with hypopharyngoscopes, outer diameter 2 mm, length 20 cm
10338 TA	**Adjustable Magnifier, autoclavable,** swing-away type, with plug connection
12070	**Handle,** for esophagoscopes



10338 TA



12070

11-98

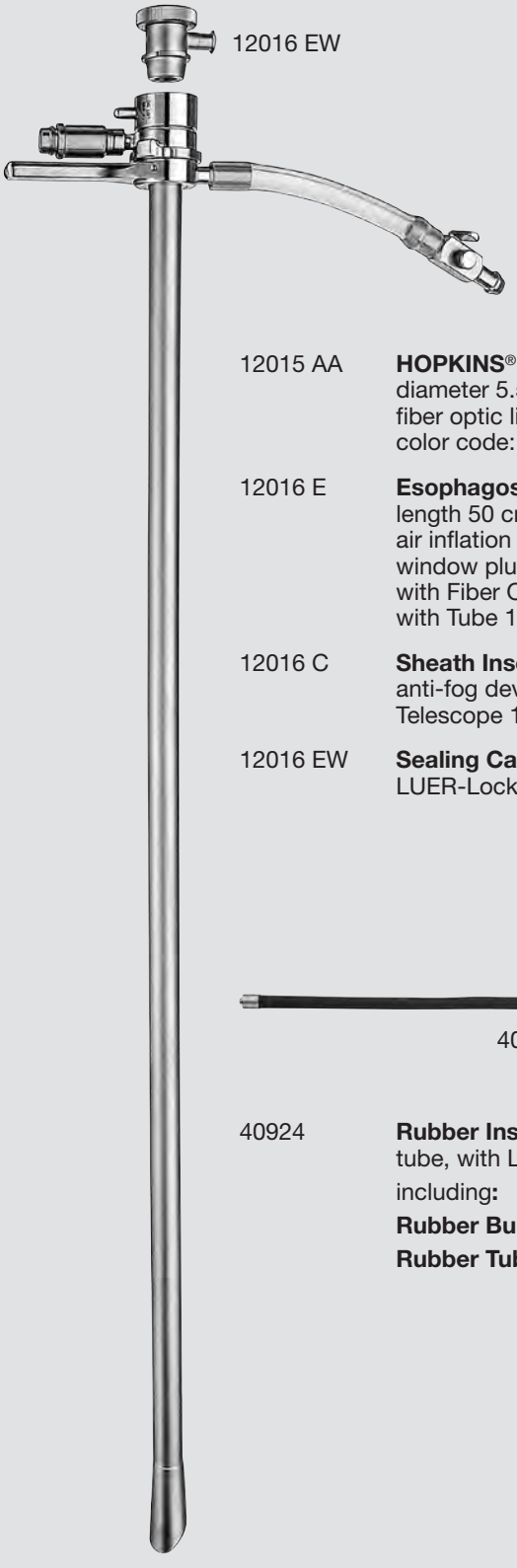
Optical Esophagoscope

with Suction Channel and Air Inflation Device



12015 AA

12016 C



12016 E

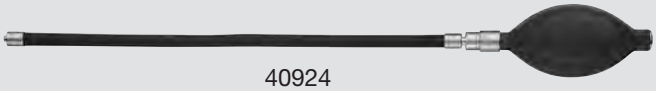
12016 EW

12015 AA **HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 53 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

12016 E **Esophagoscope Tube,** size 11, working length 50 cm, with suction channel and air inflation device, including glass window plug with LUER-Lock 12016 EW, with Fiber Optic Light Carrier 12016 EM, with Tube 12016 EF

12016 C **Sheath Insert,** with working channel and anti-fog device, for use with HOPKINS® Telescope 12015 AA

12016 EW **Sealing Cap,** with window and LUER-Lock cone



40924

40924 **Rubber Insufflation Bulb,** with detachable tube, with LUER-Lock

including**:**

Rubber Bulb

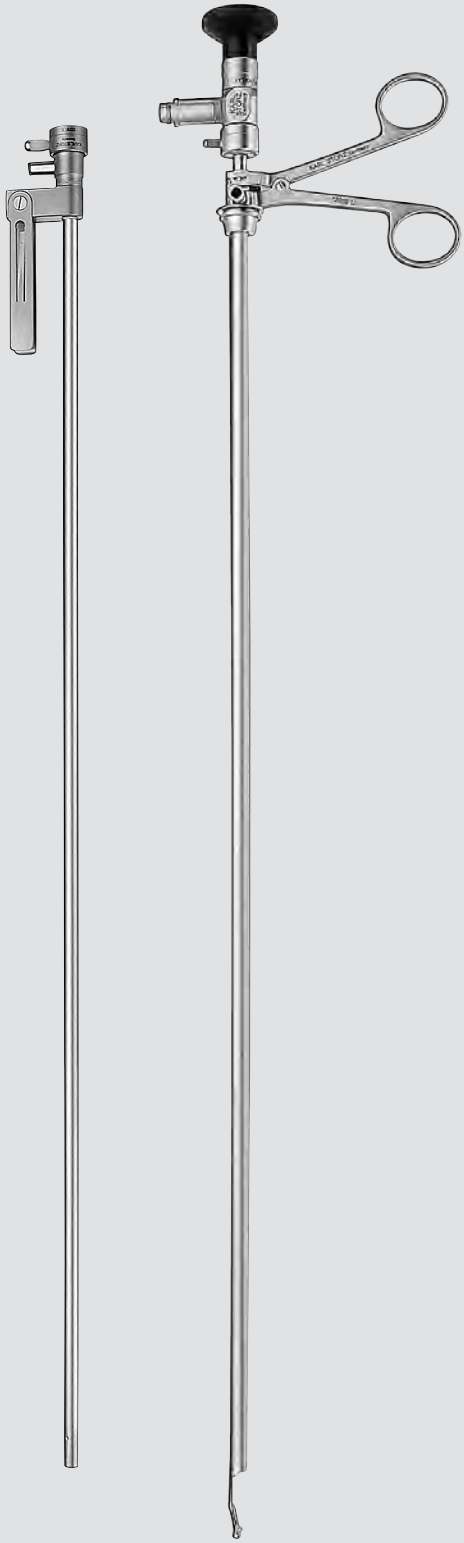
Rubber Tube

11-98i

Components/Spare Parts see chapter 16

Optical Forceps and Injection Needle

12015 AA



Instruments for use with HOPKINS® Telescope 12015 AA

12016 K	**Optical Peanut Forceps,** for large chunks of meat and soft foreign bodies
12016 L	**Optical Forceps,** spoon-shaped, round, for biopsy
12016 M	**Optical Forceps,** alligator, large jaws, for hard foreign bodies
12016 N	**Optical Forceps,** universal, for biopsy, for foreign bodies and removal of denatured tissue
12016 X	**Telescope Guide,** for use with Esophagoscopes 12060 A/C/E, length 50 cm and HOPKINS® Telescope 12015 AA



12016 X 12016 L 12016 K 12016 L 12016 M 12016 N

11-98i

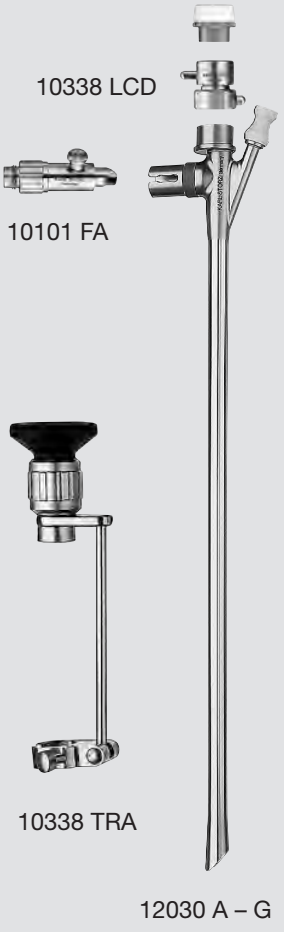
Pediatric Esophagoscopes

with Proximal Illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Prismatic Light Deflector 10101 FA inserted proximally ensures best illumination and enables full use of lumen through operating instruments**
- **Excellent view of operation area**
- **Lateral channel for introduction of instruments and catheters**



12030 A	**Esophagoscope Tube,** size 6, length 30 cm
12030 B	**Same,** size 5
12030 C	**Same,** size 4
12030 F	**Esophagoscope Tube,** size 3.5 mm, length 18.5 cm
12030 G	**Same,** size 3
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
10338 TRA	**Adjustable Magnifier, autoclavable,** swing-away type, with ring adaption
10338 N	**Rubber Telescope Guide,** for use with telescopes and optical forceps
10338 LCD	**Telescope Bridge,** for fixed position between bronchoscope and telescope

For use through lateral working channel of esophagoscopes, lengths 30 and 18.5 cm, under control of HOPKINS® Telescopes 10324 AA, 10020 ATA and 10018 AA:

10338 U	**Forceps,** alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
10338 X	**Forceps,** spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
10468 B	**Suction Catheter,** 7.5 Fr., with Adaptor 10479 B
10468 B	**Suction Catheter,** 7.5 Fr., with Adaptor 10479 B
10468 D	**Suction Catheter,** 4.5 Fr., with Adaptor 10479 F

11-98$_3$

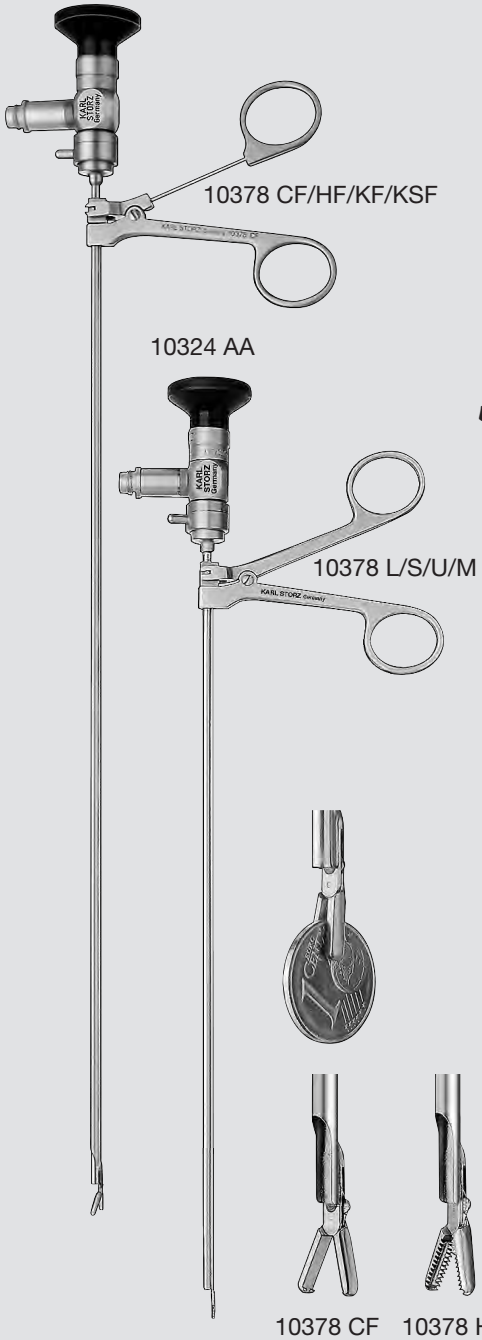
Optical Forceps and Scissors

for Pediatric Esophagoscopes, size 6 – 3.5, length 30 cm – 18.5 cm

KARL STORZ — ENDOSKOPE

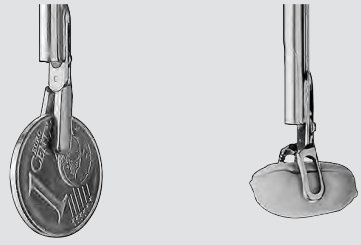
Special Features:

- **Newly designed forceps for hard and soft foreign bodies enable removal under precise optical control not previously possible**
- **Small size of forceps allows them to be introduced through pediatric esophagoscopes as of size 3.5 cm and in lengths 30 or 18.5 cm**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**



For use with Esophagoscopes 12030 A/B/C/F

	10324 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
	10378 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
	10378 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
	10378 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
NEW	10378 KSF	**Optical Forceps,** VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
	10378 L	**Optical Forceps,** spoon-shaped, for biopsy
	10378 S	**Optical Scissors**
	10378 U	**Optical Forceps,** universal, for biopsy and foreign bodies removal
	10378 M	**Optical Forceps,** spoon-shaped, oval, for biopsy, large model





10378 CF | 10378 HF | 10378 KF | 10378 KSF | 10378 L | 10378 S | 10378 U | 10378 M

6-03₂

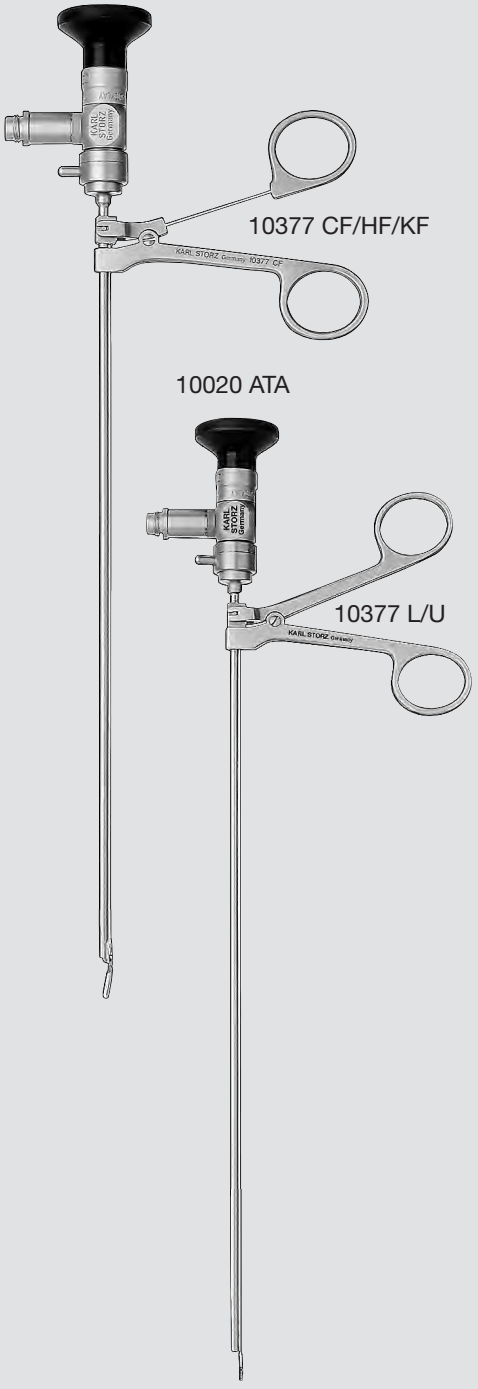
Optical Forceps

for Pediatric Esophagoscopes, size 3.5, length 18.5 cm

Special Features:

- **Newly designed forceps for hard and soft foreign bodies enable removal under precise optical control not previously possible**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

10020 ATA



For use with Esophagoscope 12030 F

10020 ATA	**HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
10377 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
10377 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
10377 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
10377 L	**Optical Forceps,** spoon-shaped, for biopsy
10377 U	**Optical Forceps,** universal, for biopsy and foreign bodies removal





10377 CF | 10377 HF | 10377 KF | 10377 L | 10377 U

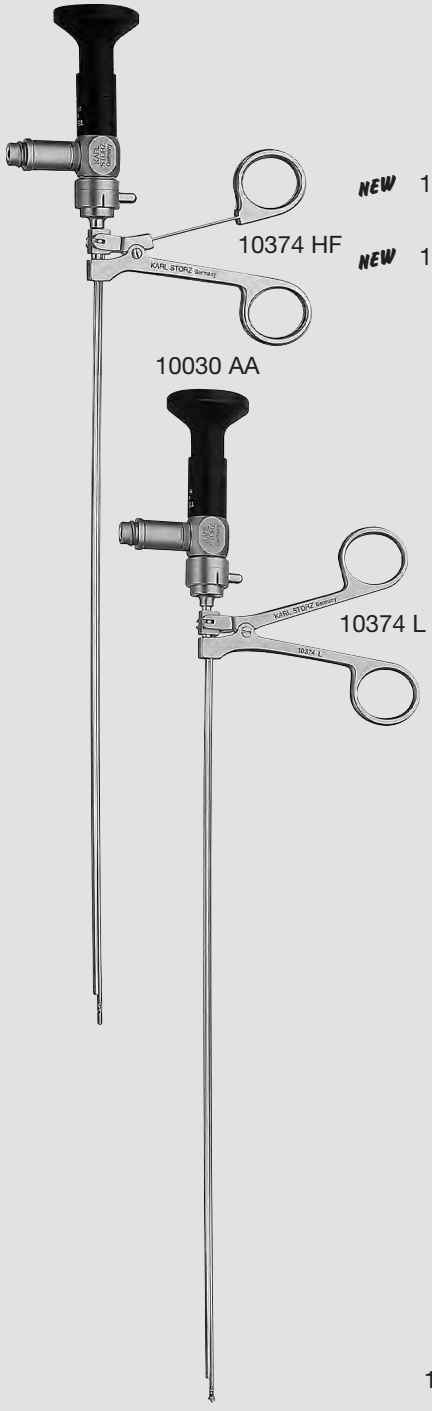
6-03₁

Optical Forceps NEW

for Pediatric Esophagoscopes, size 3.5 – 3, length 18.5 cm

Special Features:

- **Small size of forceps allows them to be introduced through pediatric bronchoscopes as of size 3 and a length of 18.5 cm**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

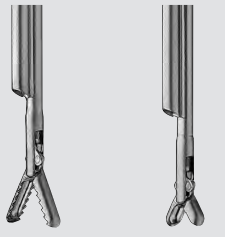


NEW 10030 AA **Miniature Straight Forward Telescope 0°,** semirigid, **autoclavable,** fiber optic light transmission incorporated

Direction of view:	0°
Angle of view:	90°
Working length:	30.6 cm
Outer diameter:	1.3 mm
Color code:	green

NEW 10374 HF **Optical Forceps,** with alligator jaws, for grasping hard foreign bodies, with spring-action handle

NEW 10374 L **Optical Forceps,** spoon-shaped, for biopsy



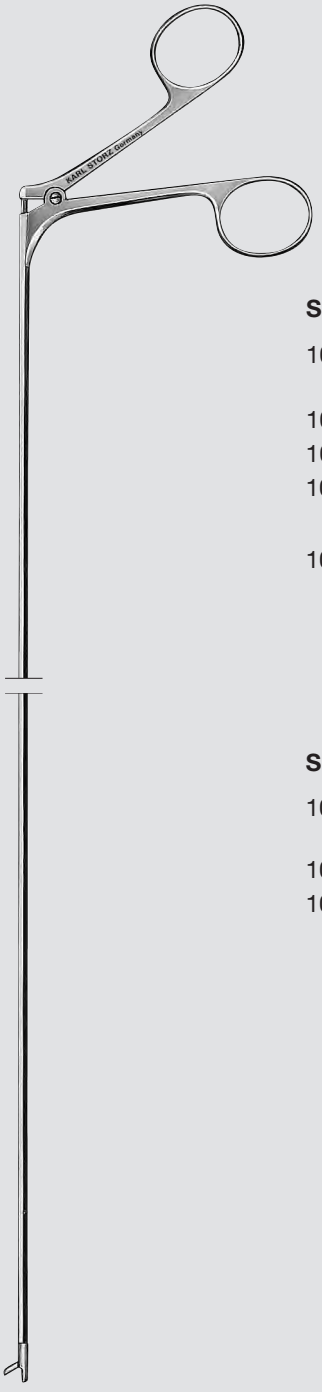
10374 HF 10374 L

3-11

Forceps and Scissors for Esophagoscopy

single action jaws

KARL STORZ — ENDOSKOPE

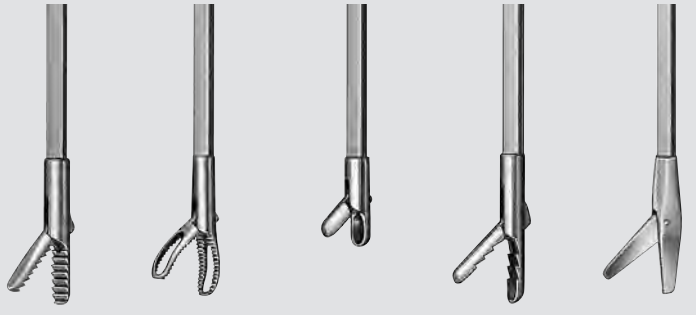


Sheath diameter 2.5 mm, working length 55 cm

10366 HL	**Forceps,** alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 55 cm
10366 KL	**Same,** for peanuts and soft foreign bodies
10366 LL	**Same,** spoon-shaped, round, for biopsy
10366 UL	**Same,** universal, for biopsy and foreign bodies removal
10366 SL	**Scissors,** straight, for trituration of bone

Sheath diameter 2.5 mm, working length 35 cm

10367 H	**Forceps,** alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
10367 K	**Same,** for peanuts and soft foreign bodies
10367 L	**Same,** spoon-shaped, round, for biopsy



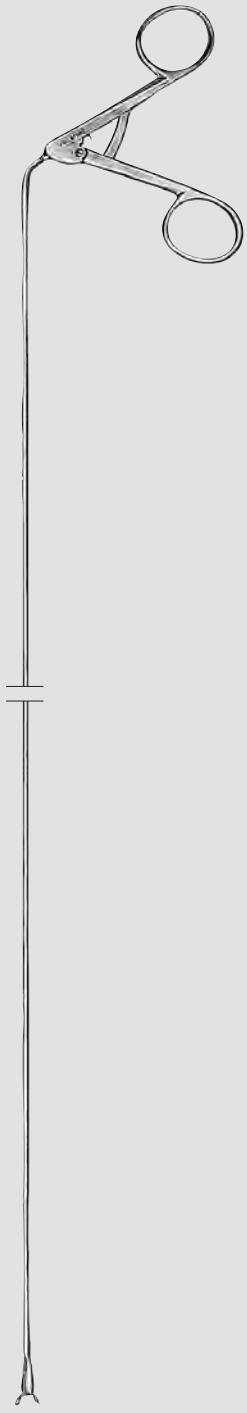
10366 HL 10367 H	10366 KL 10367 K	10366 LL 10367 L	10366 UL	10366 SL

11-98$_2$

Esophagoscopic Forceps

double action jaws

KARL STORZ — ENDOSKOPE



Sheath diameter 2.5 mm, working length 55 cm

10370 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 55 cm
10370 JL	**Same,** pointed, serrated, for coins and flat foreign bodies
10370 KL	**Same,** for peanuts and soft foreign bodies
10370 LL	**Same,** spoon-shaped, round, for biopsy

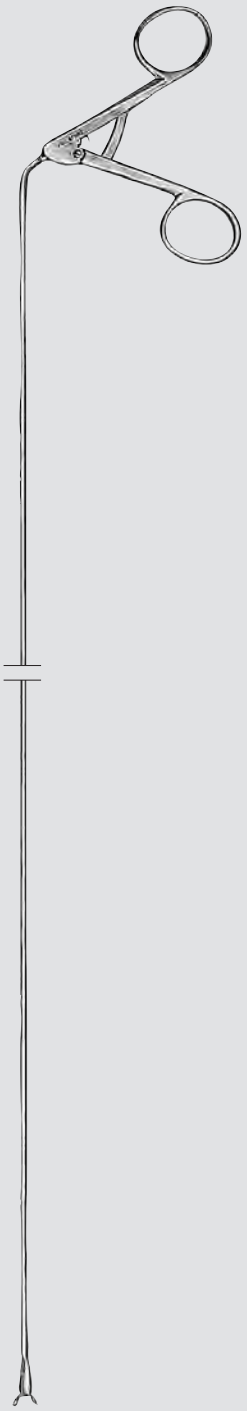


10370 HL 10370 JL 10370 KL 10370 LL

11-98₂

Esophagoscopic Forceps

double action jaws



Sheath diameter 2 mm, working length 45 cm

10371 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
10371 KL	**Same,** for peanuts and soft foreign bodies
10371 LL	**Same,** spoon-shaped, round, for biopsy
10371 UL	**Same,** universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

10371 H	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
10371 J	**Same,** pointed, serrated, for coins and flat foreign bodies
10371 K	**Same,** for peanuts and soft foreign bodies
10371 L	**Same,** spoon-shaped, round, for biopsy
10371 P	**Same,** spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
10371 U	**Same,** universal, for biopsy and foreign bodies removal



10371 HL
10371 H

10371 J

10371 KL
10371 K

10371 LL
10371 L

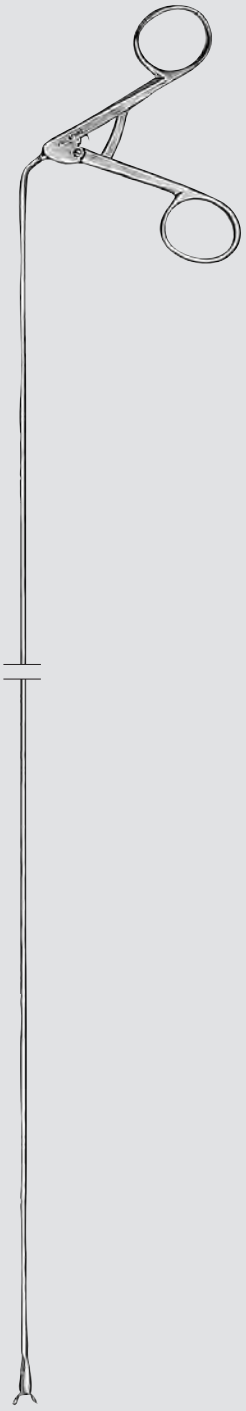
10371 P

10371 UL
10371 U

11-98$_2$

Esophagoscopic Forceps

double action jaws



Sheath diameter 1.5 mm, working length 35 cm

10372 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
10372 JL	**Same,** pointed, serrated, for coins and flat foreign bodies
10372 KL	**Same,** for peanuts and soft foreign bodies
10372 LL	**Same,** spoon-shaped, round, for biopsy
10372 UL	**Same,** universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

10372 H	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
10372 K	**Same,** for peanuts and soft foreign bodies



10372 HL
10372 H



10372 JL



10372 KL
10372 K



10372 LL



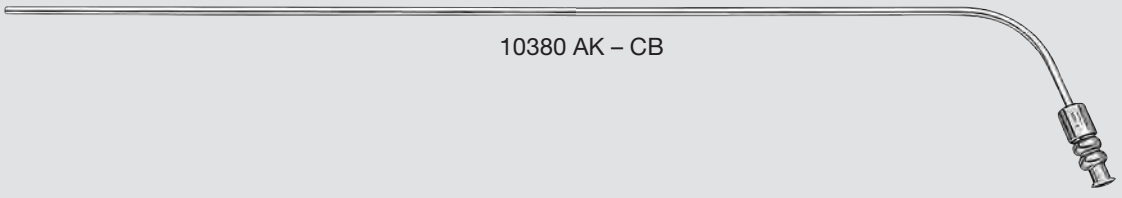
10372 UL

11-98₂

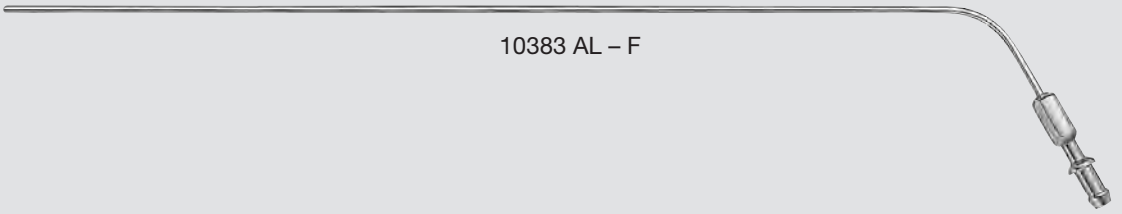
Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

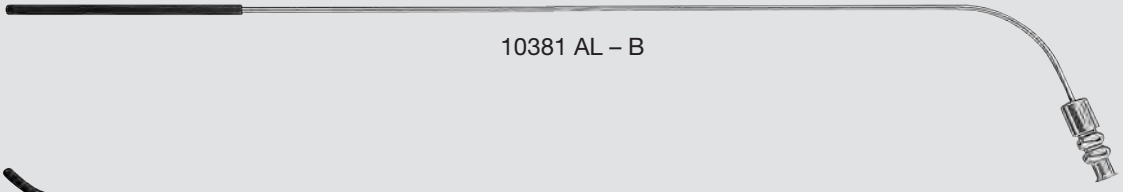
KARL STORZ — ENDOSKOPE



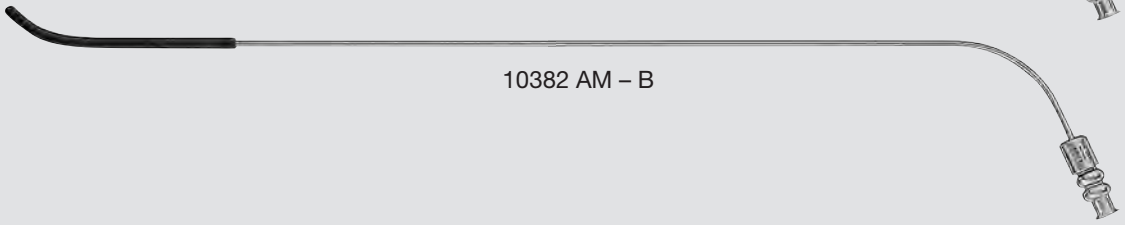
10380 AK – CB



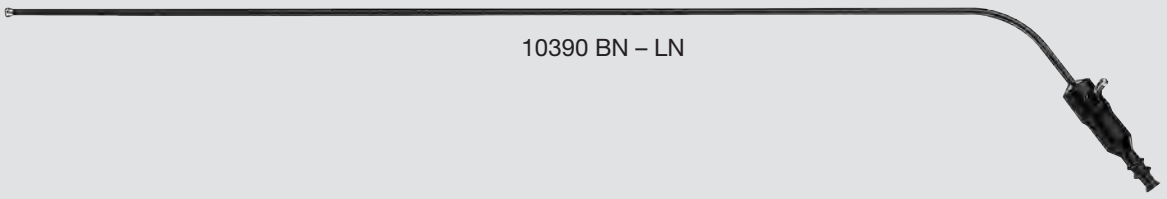
10383 AL – F



10381 AL – B

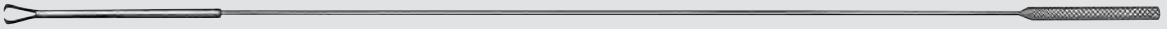


10382 AM – B

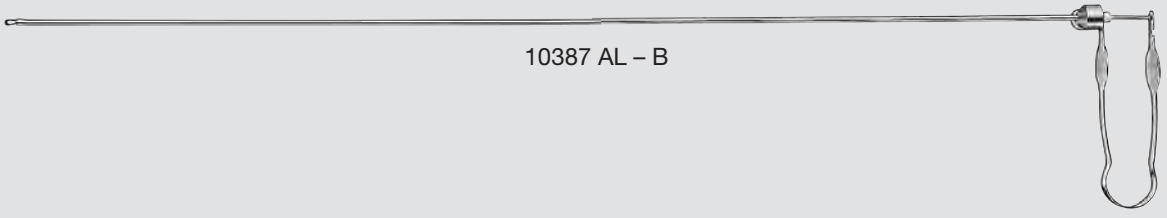


10390 BN – LN

10384 AL – B



10385 B



10387 AL – B

11-98

Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

KARL STORZ — ENDOSKOPE

Working length 60 cm

10380 AX	**Suction Tube,** diameter 4 mm

Working length 55 cm

10380 AL	**Suction Tube,** diameter 4 mm
10383 AL	**Same,** with cut-off hole
10381 AL	**Suction Tube,** with rubber tip, straight, diameter 4 mm
10390 LN	**Coagulating Suction Tube,** insulated, with connector pin for unipolar coagulation, diameter 4 mm
10384 AL	**Cotton Carrier**
10387 AL	**Sponge Holder,** with spring handle

Working length 45 cm

10380 AM	**Suction Tube,** diameter 4 mm
10381 AM	**Suction Tube,** with rubber tip, straight, diameter 4 mm
10381 BL	**Same,** diameter 2 mm
10382 AM	**Same,** diameter 4 mm, curved
10383 AM	**Suction Tube,** with cut-off hole, diameter 3 mm

Working length 35 cm

10380 CB	**Suction Tube,** diameter 2 mm
10380 B	**Same,** diameter 3 mm
10380 AK	**Same,** diameter 4 mm
10383 B	**Suction Tube,** with cut-off hole, diameter 3 mm
10383 BL	**Same,** diameter 5.5 mm
10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
10382 B	**Same,** curved
10390 BN	**Coagulation Suction Tube,** insulated, with connector pin for unipolar coagulation, diameter 3 mm
10384 B	**Cotton Applicator**
10385 B	**Sponge Holder**
10387 B	**Sponge Holder,** with spring handle

Working length 30 cm

10383 DD	**Suction Tube,** with cut-off hole, diameter 2 mm
10383 F	**Same,** diameter 3 mm

Working length 25 cm

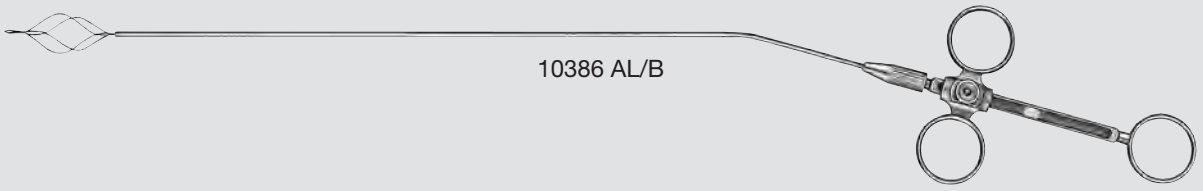
10380 C	**Suction Tube,** diameter 2 mm

11-98$_2$

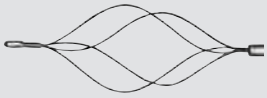
Components/Spare Parts see chapter 16

Accessories for Esophagoscopy

Foreign Body Baskets



10386 AL/B

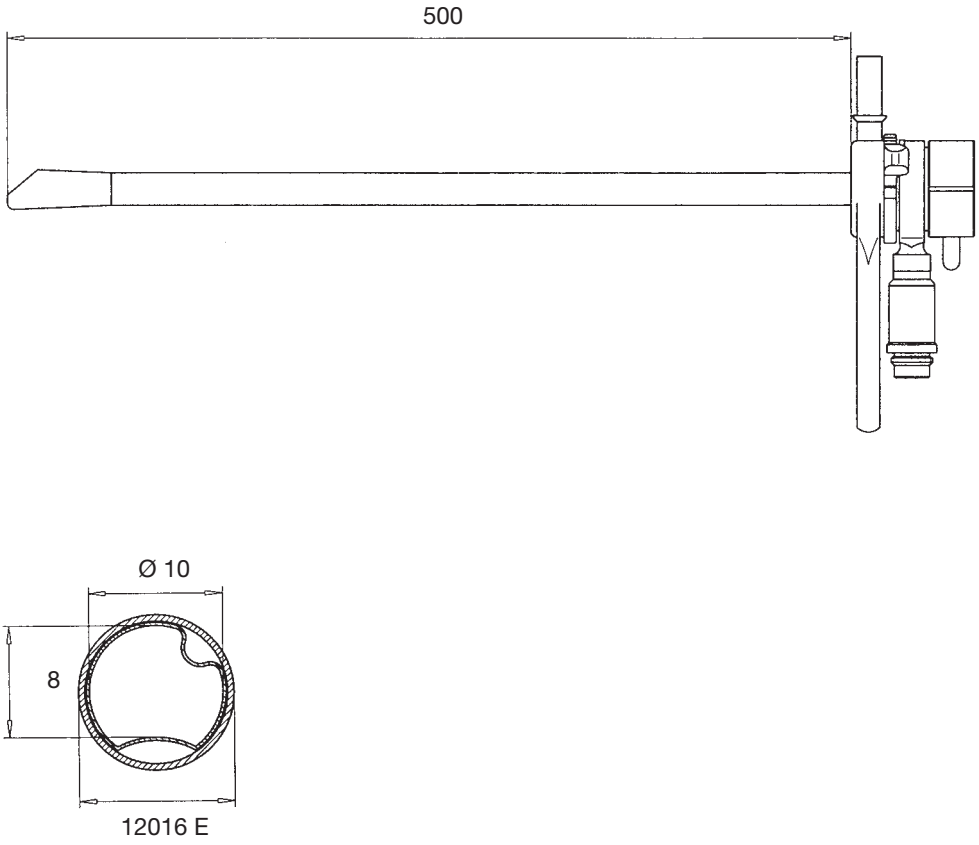


10386 AL	**Foreign Body Basket,** with ring handle, working length 55 cm
10386 B	**Same,** working length 35 cm

3-11

Components/Spare Parts see chapter 16

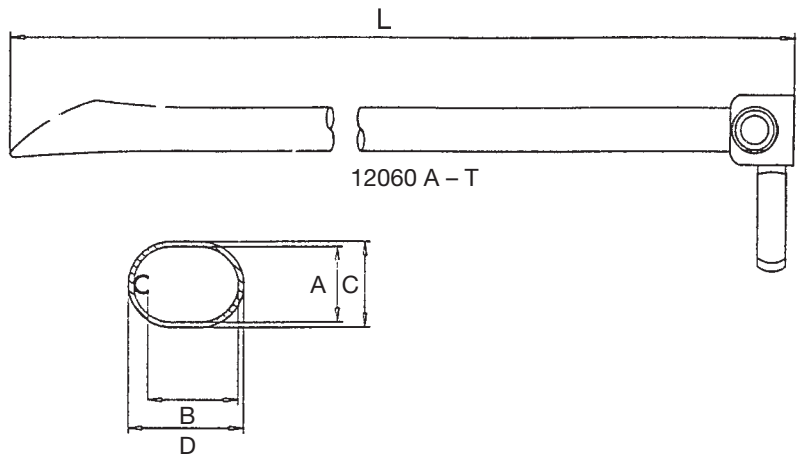
Dimensions of Esophagoscopes 12016 E



Cat. No.	Working Length	Outer Diameter Size	Telescopes	Optical Forceps
12016 E	50 cm	11	12015 AA	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA

11-98i

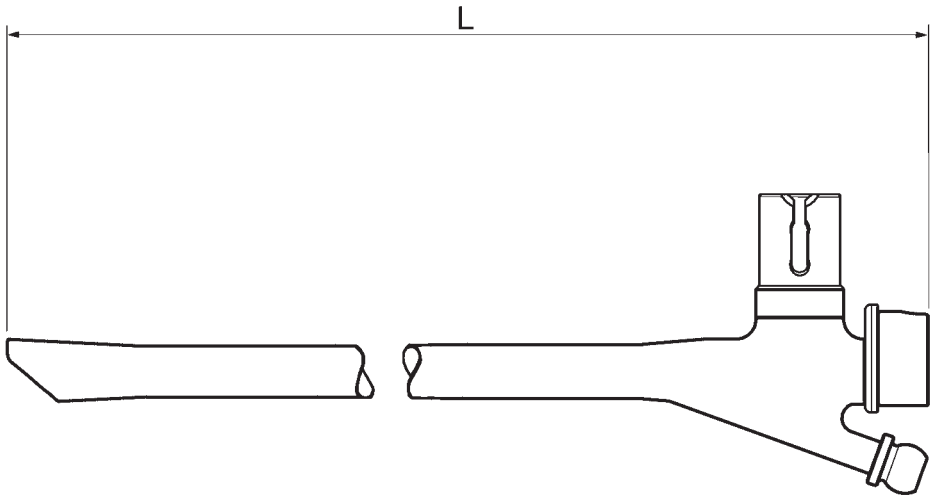
Dimensions of Esophagoscopes 12060



Cat. No.	Total Length – L –	Inner Diameter Size – A x B –	Outer Diameter Size – C x D –	Telescopes	Optical Forceps
12060 A	50 cm	11 x 12	12 x 16	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 AU	35 cm	11 x 12	12 x 16	12015 AA	
12060 AV	40 cm	11 x 12	12 x 16	12015 AA	
12060 AW	45 cm	11 x 12	12 x 16	12015 AA	
12060 AX	55 cm	11 x 12	12 x 16	12015 AA	–
12060 B	30 cm	11 x 12	12 x 16	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 C	50 cm	9 x 10	10 x 14	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 CV	40 cm	9 x 10	10 x 14	12015 AA	
12060 CX	55 cm	9 x 10	10 x 14	12015 AA	–
12060 D	30 cm	9 x 10	10 x 14	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 E	50 cm	7 x 8	8 x 12	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 EV	40 cm	7 x 8	8 x 12	12015 AA	
12060 F	30 cm	7 x 8	8 x 12	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 H	30 cm	6 x 6	7 x 9	10324 AA	
12060 R	20 cm	11 x 12	12 x 16	10324 AA	
12060 S	20 cm	9 x 10	10 x 14	10324 AA	
12060 T	20 cm	7 x 8	8 x 12	10324 AA	

11-98

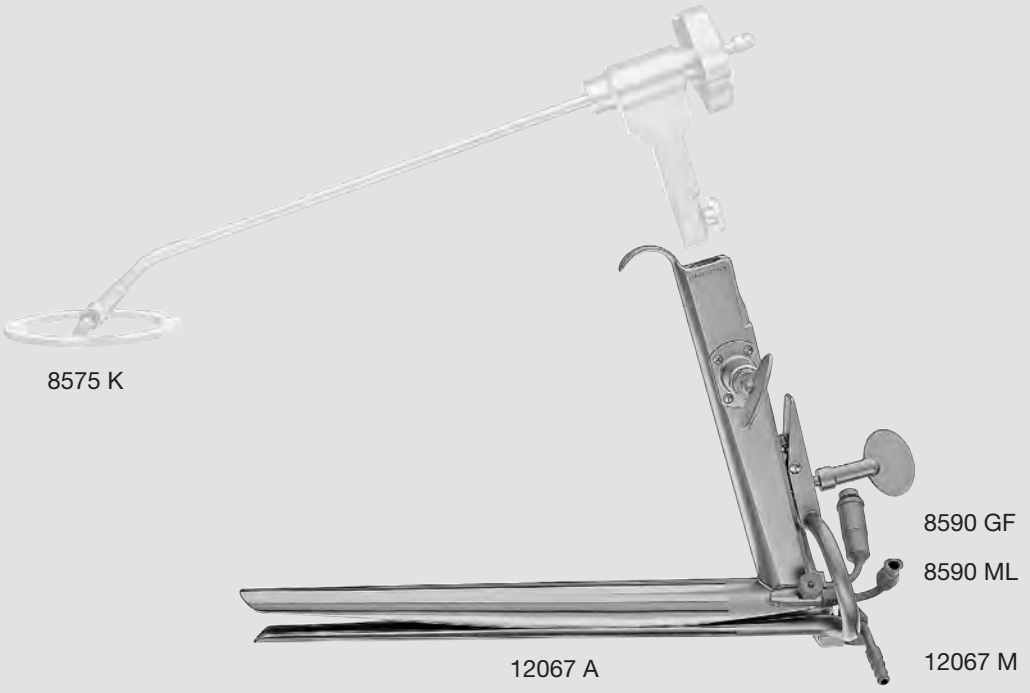
Dimensions of Esophagoscopes 12030



Cat. No.	Size	Total Length – L –	Telescopes	Optical Forceps
12030 A	6	30 cm	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 M, 10378 S, with 10324 AA
12030 B	5	30 cm	10324 AA	
12030 C	4	30 cm	10324 AA	
12030 F	3.5	18.5 cm	10020 ATA, 10018 AA	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
12030 G	3	18.5 cm	10018 AA	10374 HF, 10374 L with 10030 AA

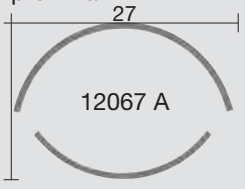
11-98

WEERDA **Distending Diverticuloscope for CO_2 LASER Technique**



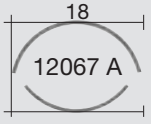
Outer dimensions in mm:

proximal:



Spread: max. 40
min. 29

distal:



Spread: max. 65
min. 7

12067 A	WEERDA **Distending Diverticuloscope,** length 24 cm, with adaptor for Suction Tube 12067 M Proximal size open: max. 40 x 27 mm min. 29 x 27 mm Distal size open: max. 65 x 18 mm min. 7 x 18 mm
8590 GF	**Fiber Optic Light Carrier,** for distal illumination, working length 14 cm
8590 ML	**Suction Tube,** to remove vapor, for LASER treatment, outer diameter 3 mm
12067 M	**Suction Tube,** to remove vapor, flat, size 6 x 3 mm
8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
	or
8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

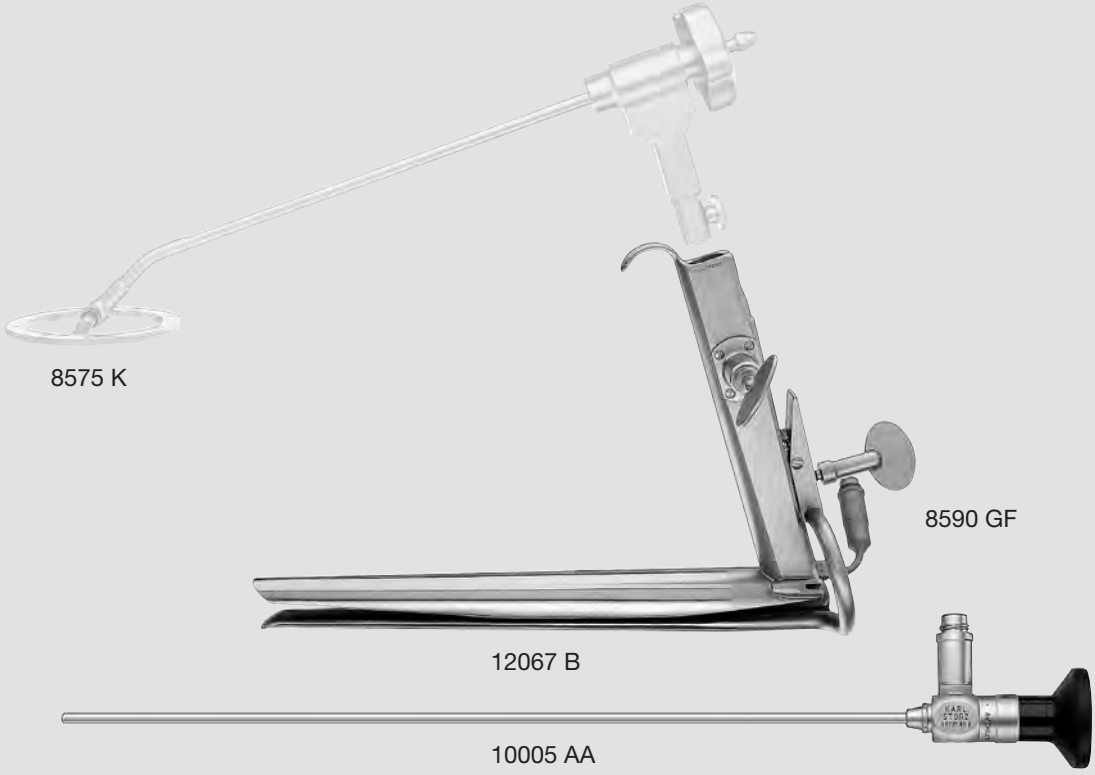
Components/Spare Parts see chapter 16

2-09$_6$

WEERDA **Distending Diverticuloscope for Stapling Technique**

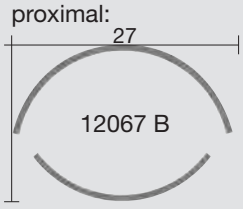
KARL STORZ — ENDOSKOPE

For use with HOPKINS® II Straight Forward Telescope 10005 AA



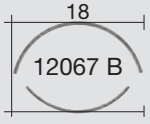
Outer dimensions in mm:

proximal:



Spread: max. 40
min. 29

distal:



Spread: max. 65
min. 7

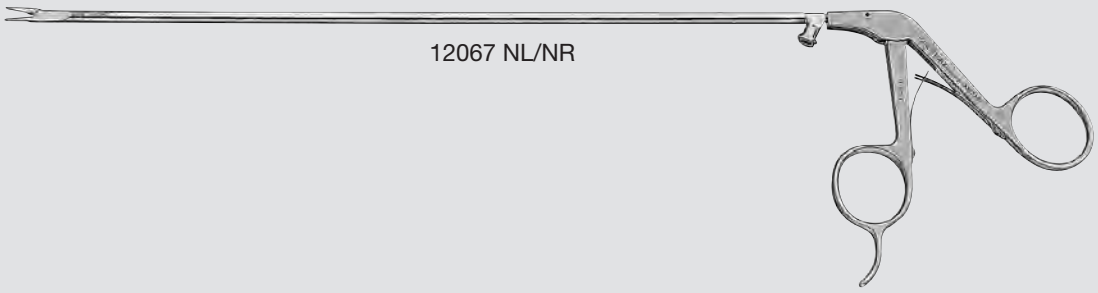
12067 B	WEERDA **Distending Diverticuloscope,** length 24 cm, without adaptor for Suction Tube 12067 M Proximal size open: max. 40 x 27 mm min. 29 x 27 mm Distal size open: max. 65 x 18 mm min. 7 x 18 mm
10005 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
8590 GF	**Fiber Optic Light Carrier,** for distal illumination, working length 14 cm
8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: **Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm
	or
8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel including: BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Components/Spare Parts see chapter 16

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Instruments for Diverticuloscopes

Clip Forceps



12067 NL/NR



12067 NL **Clip Forceps,** jaws curved to left, with cleaning connector, working length 30 cm, for use with Clip 8665 T



12067 NR **Same,** jaws curved to right



8665 T **Clip,** titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR

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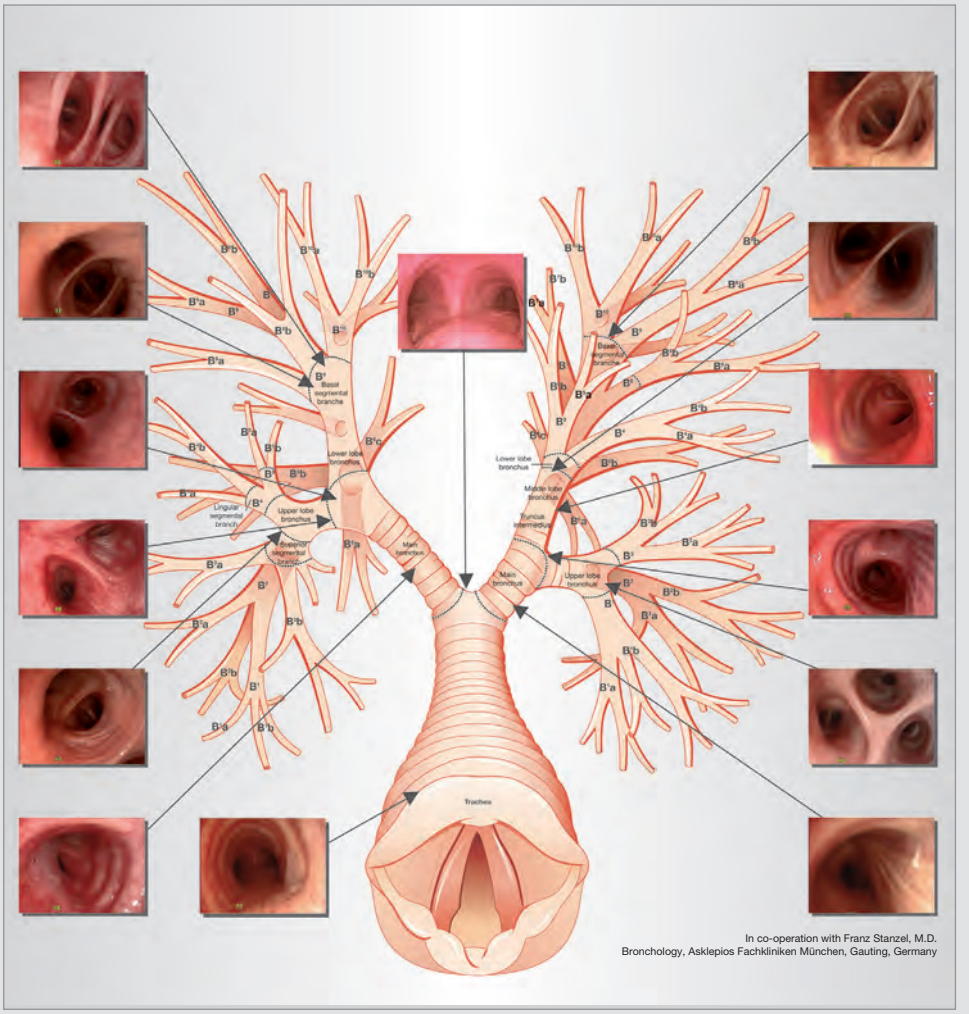
BRONCHOSCOPY
TRACHEOSCOPY

Indications for flexible bronchoscopy:

- For routine examinations
- Treatment of acute respiratory problems in the intensive care unit
- Suction under visual control
- Use of catheters and brushes for cytology
- For obtaining secretions for bacteriological tests
- Localization of bleeding sites in the case of hemoptysis
- Functional examination when respiratory tract is unstable
- Therapeutic suction and irrigation
- Transbronchial lung biopsy
- Selective bronchiography
- Autofluorescence and white light diagnosis

Indications for rigid bronchoscopy:

- Hemoptysis
- Tracheal stenosis
- Foreign body removal
- All bronchological interventions such as bougienage, removal of threads, hemostasis by means of electrocautery or laser
- Laser treatment
- Removal of tumors
- Confirmation of cell type in the case of previous, non-diagnostic fiber-optic bronchoscopy
- Removal of excess fibrin, mucous plugs
- Bronchography
- Autofluorescence and white light diagnosis



In co-operation with Franz Stanzel, M.D.
Bronchology, Asklepios Fachkliniken München, Gauting, Germany

11-98$_2$

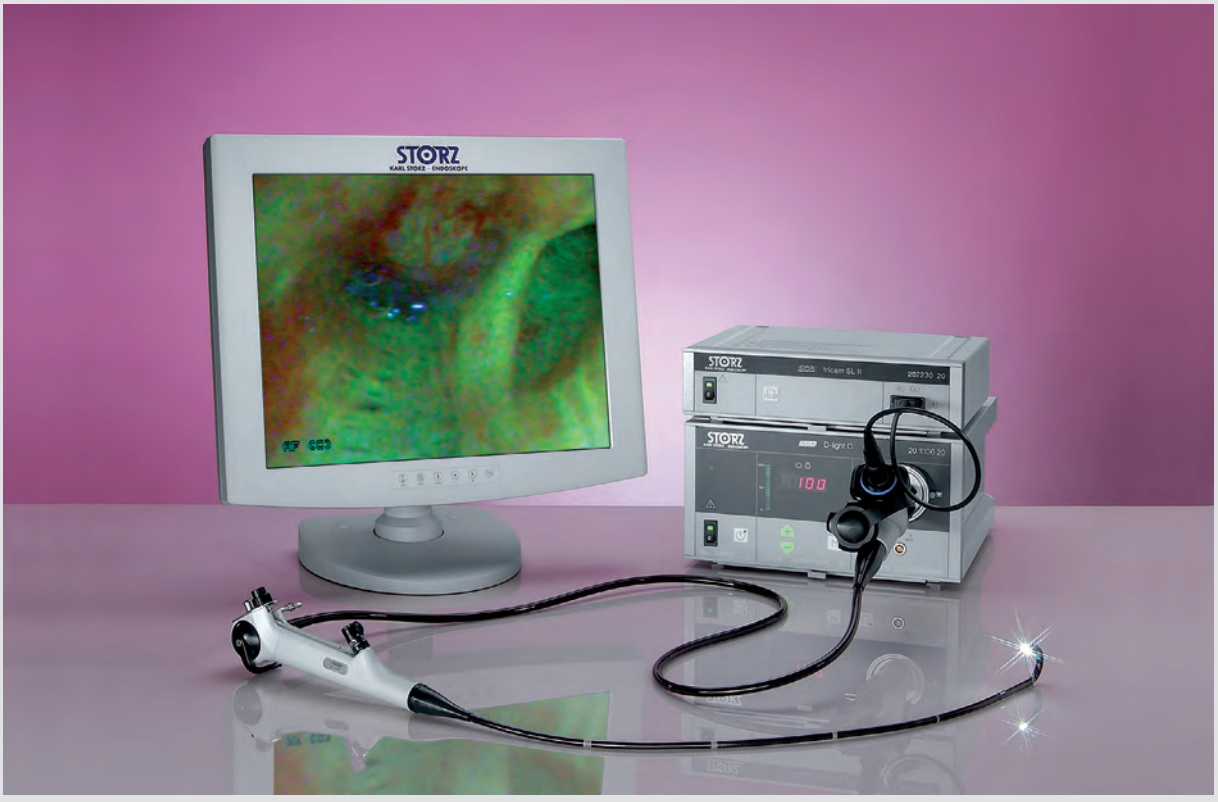
Video Bronchoscope NEW for Autofluorescence

for use with TELECAM SL II FI SCB 20 2130 11U1

KARL STORZ is expanding its line of flexible bronchoscopes with the new video bronchoscope with a distal chip for autofluorescence diagnosis. Users who no longer wish to miss out on the high image quality of videoscopes can now take advantage of the quality products of KARL STORZ in this field, too.

Whereas in the past comparatively heavy fiber optic endoscopes with a separate camera head were used in video endoscopy, this system delivers excellent color fidelity in both the white light and autofluorescence modes. An integrated button on the handle of the video bronchoscope allows rapid switching between the white light and the blue light modes.

In combination with the TELECAM SL II FI SCB control unit and the D-LIGHT C/AF, the new video bronchoscope for autofluorescence diagnosis offers outstanding image sharpness as well as excellent brightness and representation of detail.



Further information and accessories for the video bronchoscope for autofluorescence
see chapter 13, FLUORESCENCE

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Video Bronchoscope NEW for Autofluorescence

for use with TELECAM SL II FI SCB 20 213 011U1

KARL STORZ — ENDOSKOPE



11900 AP/AN

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis,** color system **PAL,** including mounted Suction Unit 11900 AE, for use with TELECAM SL II FI SCB **20** 2130 11U1

Working channel:	2.3 mm
Direction of view:	0°
Angle of view:	120°
Deflection up/down:	180°/100°
Depth of view:	3 – 50 mm
Working length:	61 cm
Outer diameter:	6.2 mm

11900 AN **Same,** color system **NTSC**

Following accessories included:

27677 KV	**Case**
20 2130 70	**Video Connecting Cable**
13272	**Mouthpiece**
11001 KL	**Biopsy Forceps,** flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX	**Leakage Tester,** with bulb and manometer
11025 XE	**Pressure Compensation Cap,** for ventilation during gas sterilization
27651 B	**Cleaning Brush,** flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm
13991 SS	**Irrigation Tube,** for working channel
27656 B	**Instrument Oil,** 50 ml, silicone-free
13990 SFN	**Protective Film**

3-11

Optional accessories see pages 632-635

Further information and accessories for the video bronchoscope for autofluorescence see chapter 13, FLUORESCENCE

Video Bronchoscope

for use with TELECAM SL II SCB 20 2130 11
and TELE PACK X 20 0450 01-EN

KARL STORZ — ENDOSKOPE



11900 BP/BP

11900 BP **Video Bronchoscope,** color system **PAL,** including mounted Suction Unit 11900 AE, for use with TELECAM® SL II **20** 2130 11 and TELE PACK **20** 0430 12-020

Working channel:	2.3 mm
Direction of view:	0°
Angle of view:	120°
Deflection up/down:	180°/100°
Depth of view:	3 – 50 mm
Working length:	61 cm
Outer diameter:	6.2 mm

11900 BN **Same,** color system **NTSC**

Following accessories included:

27677 KV	**Case**
20 2130 70	**Video Connecting Cable**
13272	**Mouthpiece**
11001 KL	**Biopsy Forceps,** flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX	**Leakage Tester,** with bulb and manometer
11025 XE	**Pressure Compensation Cap,** for ventilation during gas sterilization
27651 B	**Cleaning Brush,** flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm
13991 SS	**Irrigation Tube,** for working channel
27656 B	**Instrument Oil,** 50 ml, silicone-free
13990 SFN	**Protective Film**

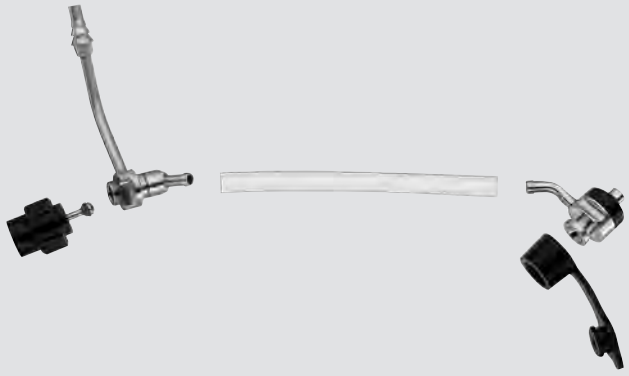
Optional accessories see pages 632-635

Further camera systems and light sources suitable for use with video bronchoscopes
see catalog TELEPRESENCE

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Video Bronchoscope

for use with TELECAM SL II SCB 20213011
and TELE PACK X 20 0450 01-EN



11900 AE	**Suction Unit,** set for Video Bronchoscopes 11900 AP and 11900 BP, **autoclavable** including: **Suction Valve** **Valve Adaptor** **Connecting Cable,** package of 10 **Suction Cylinder** **Rubber Leaflet Valve,** package of 10

Please note:
Further instruments suitable for use with Video Bronchoscopes 11900 AP/AN and 11900 BP/BN with diameter ≤ 1.8 mm, see pages 632-635

TELECAM camera systems see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

5-04

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope

KARL STORZ — ENDOSKOPE

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source.

Consideration has also been given to documentation: Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Crystal clear display

- **15" LCD display**
- **Image rotation**
- **24-bit color intensity for natural color rendition**
- **DVI-D video output for connecting HD monitors**

Flexible storage possibilities

- **SD card slot for high storage capacity**
- **USB ports for external hard drives, USB flash drives and post-script printers**
- **Picture gallery for records**
- **Playback of saved videos**
- **Print-ready patient report documentation**

Natural illumination

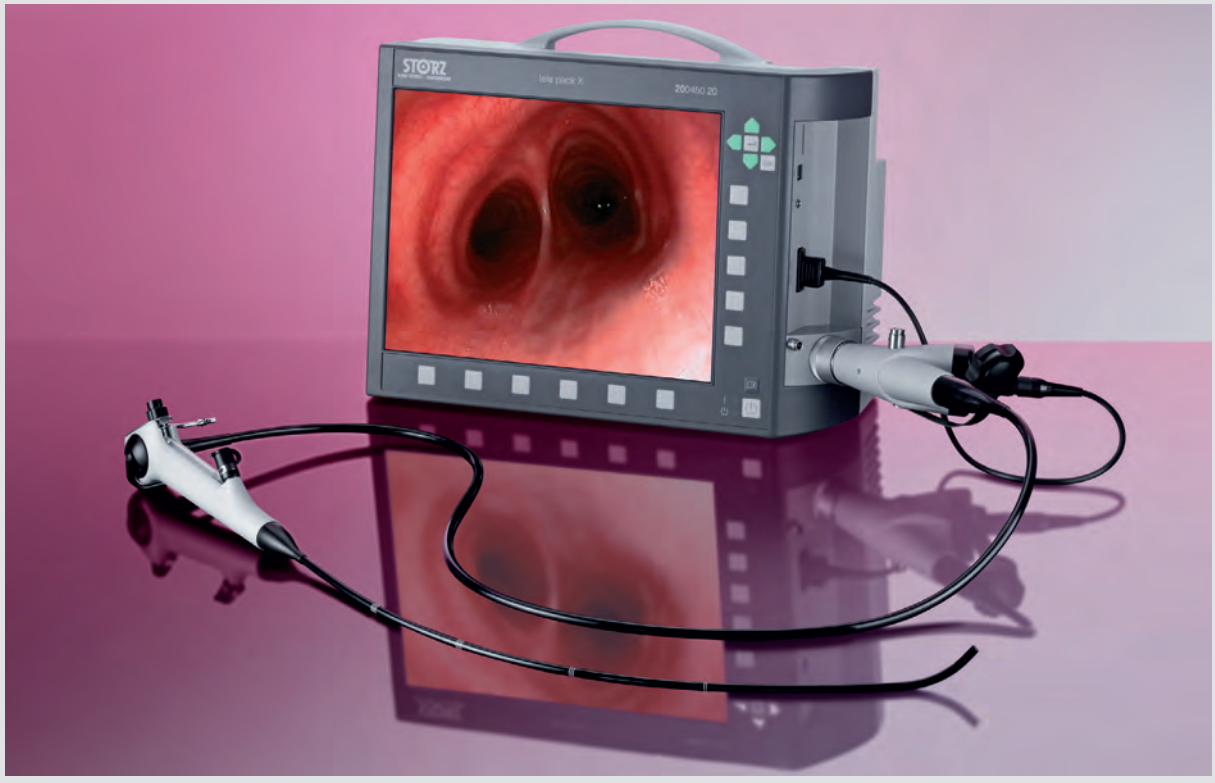
- **HiLux 50 Watt high-performance light source**
- **Natural colour rendition close to daylight with a color temperature of 5700 K**
- **Up to 1000 hours lamp operating time**

Easy control combined with highest safety

- **Membrane keyboard for wipe-down disinfection**
- **Hot keys for rapid and direct adjustment**
- **Arrow keys for intuitive control**
- **Connection socket for pedal control**

Additional information

- **Sturdy, portable housing**
- **Ergonomically designed handle for convenient transport**
- **Universal power supply unit: 100 – 240 VAC, 50/60 Hz**
- **Dimensions (w x h x d): 450 x 350 x 150 mm**
- **Weight: 7 kg**



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TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope



20 045001-EN

20 0450 01-EN	**TELE PACK X**

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC,** with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Optional accessories in use with video bronchoscopes:

20 0450 31	**Light Adaptor for Video Endoscopes,** for TELE PACK X in combination with KARL STORZ Video Bronchoscopes 11900 BP/BN and KARL STORZ video gastroscopes

Specifications:

Power input	100 W
Power supply	100-240 VAC
Dimensions w x h x d	450 x 350 x 150
Weight	7 kg
Interfaces	- Video interface: DVI-D (in/out) - Audio: 3.5 mm jack (1x side, 1x rear), Line in, Line out - Footswitch port: 5-pin socket for two-pedal footswitch - Printer port: USB - Printer control language: PostScript
Illumination	- Lamp: Metal-halid 50 Watt - Color temperature 5700 K - Average life span: 1000 h

Image format	JPG
Video codec	MPEG-4
Video format	PAL/NTSC
Storage interface	USB 2.0; SD-memory card (SDHC compatible)
TFT monitor	- screen size: 15" - Resolution: 1024 x 768 - Contrast: 700:1
Loudspeaker	Power: 2 W

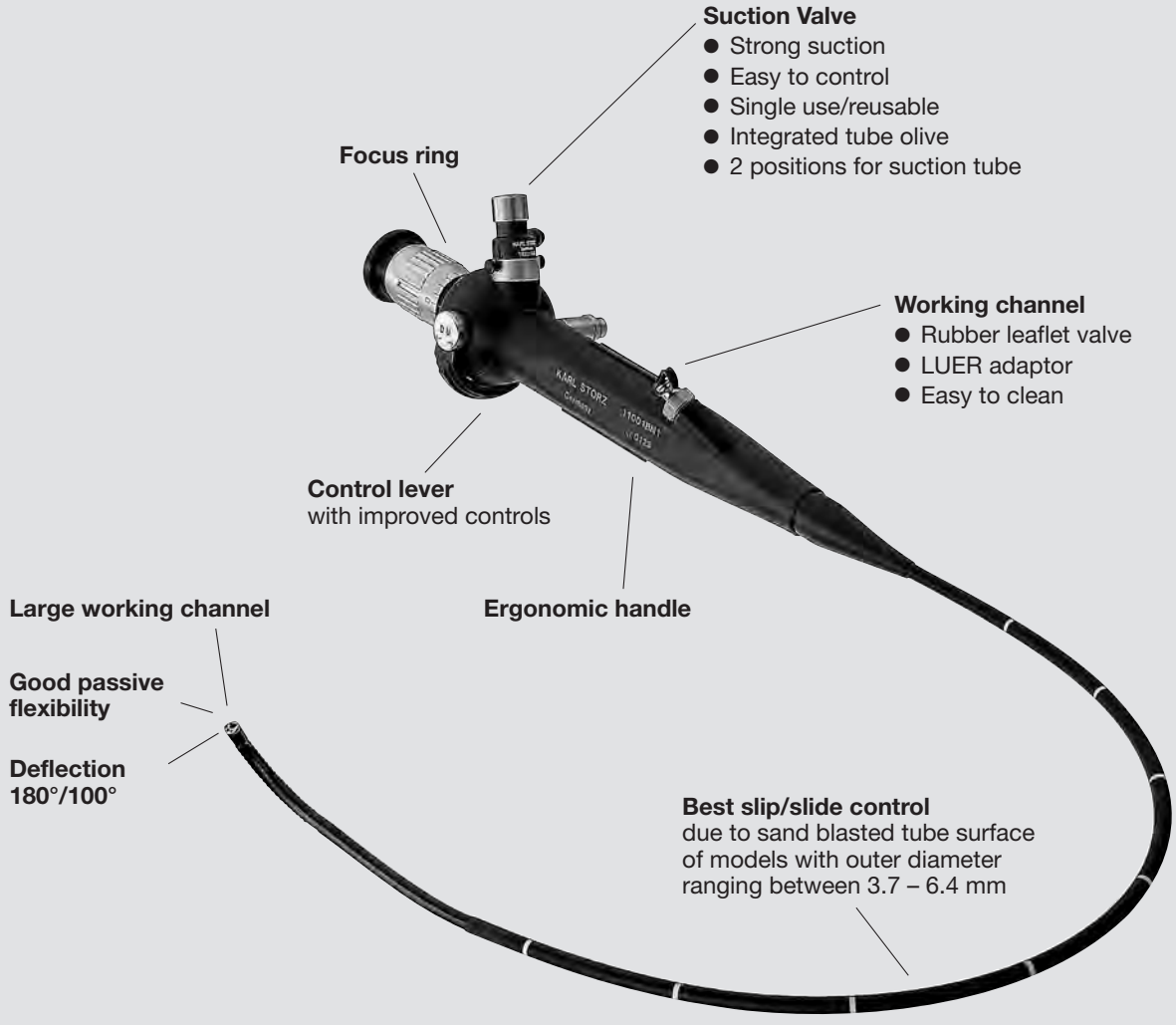
8-11

Components/Spare Parts see chapter 16

Broncho-Fiberscopes

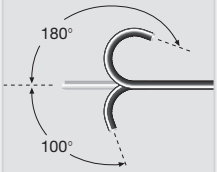
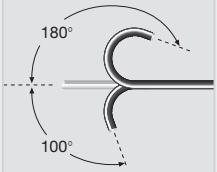
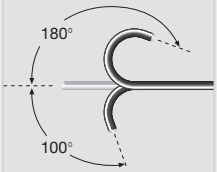
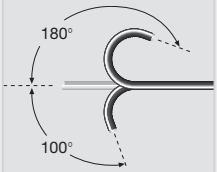
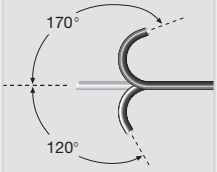
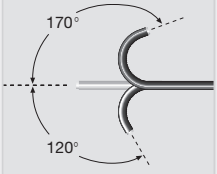
Special Features:

- **Large viewing angle and movable distal tip facilitates orientation**
- **Working channel for the use of operating instruments**
- **Functional: simultaneous suction and application of medication via removable suction valve**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Simple leakage test takes only a few minutes and requires no additional accessories**
- **Gas-sterilizable with EtO and FO gas, Steris® and Sterrad®**
- **Recommended for use in conjunction with KARL STORZ ENDOVISION® TELECAM SL II PDD SCB System**
- **Exceptional optical quality of both lens and fiber optic image transmission bundle**
- **Resistant construction and robust mechanical components ensure long life of the instrument**



5-04₁

Broncho-Fiberscopes

Broncho-Fiberscopes	Art. No.		Deflection up/down	Direction of view	Angle of view
6.4 mm x 54 cm Broncho-Fiberscope	11004 BC			0°	110°
5.6 mm x 54 cm Broncho-Fiberscope	11009 BC			0°	110°
5 mm x 54 cm Broncho-Fiberscope for Adults	11001 BN			0°	110°
3.7 mm x 54 cm Broncho-Fiberscope for Children	11002 BD			0°	90°
2.8 mm x 54 cm Broncho-Fiberscope	11003 BC			0°	90°
2.8 mm x 70 cm Broncho-Fiberscope, for examining segmental bronchi	11005 BC			0°	90°

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Broncho-Fiberscopes for Autofluorescence see chapter 13, FLUORESCENCE
Accessories included in delivery and optional accessories see pages 630-635

	Working length	Total length	Working channel inner diameter	Distal tip outer diameter	Accessories (included in delivery)						
					Case	Pressure Comp. Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
	54 cm	82 cm	2.8 mm	6.4 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	54 cm	82 cm	2.6 mm	5.5 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	54 cm	82 cm	2.3 mm	5.2 mm	27677 BB	11025 E	13242 XL	13272	27651 B	11001 KL	11002 KS
	54 cm	82 cm	1.5 mm	3.6 mm	27677 BB	11025 E	13242 XL	13272	27651 AL	11003 MA	11003 MB
	54 cm	82 cm	1.2 mm	2.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 MA	11003 MB
	70 cm	98 cm	1.2 mm	2.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AL	11003 MA	11003 MB

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Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

KARL STORZ — ENDOSKOPE

Accessories included			Dia-meter	Length	for use with							
					11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	11003 MB	**Grasping Forceps,** flexible, double action jaws	1 mm	110 cm	–	–	–	●	●	●	–	–
	11002 KS	**Grasping Forceps,** alligator, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11003 MA	**Biopsy Forceps,** oval, flexible, double action jaws	1 mm	110 cm	–	–	–	●	●	●	–	–
	11001 KL	**Biopsy Forceps,** spoon-shaped, round, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11025 E	**Pressure Compensation Cap,** for ventilation during gas sterilization			●	●	●	●	●	●	–	–
	11025 XE	**Same**			–	–	–	–	–	–	●	●
	13242 XL	**Leakage Tester,** with bulb and manometer			●	●	●	●	●	●	–	–
	13242 LX	**Same**			–	–	–	–	–	–	●	●
	13272	**Mouthpiece**			●	●	●	●	●	●	●	●

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Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

KARL STORZ — ENDOSKOPE

Accessories included			for use with							
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	27651 C	**Cleaning Brush,** round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm	●	●	–	–	–	–	–	–
	27651 B	**Cleaning Brush,** flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm	–	–	●	–	–	–	●	●
	27651 AL	**Cleaning Brush,** round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 150 cm	–	–	–	●	–	●	–	–
	27651 AK	**Cleaning Brush,** round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm	–	–	–	–	●	–	–	–
	**20** 2130 70	**Video Connecting Cable**	–	–	–	–	–	–	●	●
	13991 SS	**Irrigation Tube**	–	–	–	–	–	–	●	●
	27656 B	**Instrument Oil,** 50 ml, silicone-free	–	–	–	–	–	–	●	●
	13990 SFN	**Protective Film**	●	●	●	●	●	●	●	●

5-06

Optional Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

KARL STORZ — ENDOSKOPE

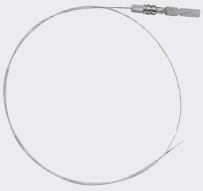
			Dia-meter	Length	for use with							
					11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	11002 KT	**Grasping Forceps,** alligator, round, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11002 KU	**Grasping Forceps,** spoon-shaped, serrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11002 KX	**Grasping Forceps,** alligator, serrated, 3x 4 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11002 KZ	**Grasping Forceps,** serrated, 1x 2 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	11001 KM	**Biopsy Forceps,** spoon-shaped, round, with spike, fenestrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	–	–	–	●	●
	13250 KL	**Biopsy Forceps,** spoon-shaped, round, fenestrated, flexible, double action jaws	2.3 mm	120 cm	●	●	–	–	–	–	–	–
	13252 KS	**Grasping Forceps,** alligator, flexible, double action jaws	2.3 mm	120 cm	●	●	–	–	–	–	–	–

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Optional Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

KARL STORZ — ENDOSKOPE

			for use with							
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	10770 B	**Button Electrode,** flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm	●	●	●	–	–	–	●	●
	11007 BS	**Brush,** for cytology, outer diameter 1.7 mm, working length 80 cm	●	●	●	–	–	–	●	●
	11007 E	**Brush,** package of 10	●	●	●	–	–	–	●	●
	11008	**Suction Catheter,** 4.5 Fr., length 100 cm, with Adaptor 10479 F	●	●	●	–	–	–	●	●

3-11

Optional Accessories

for Broncho-Fiberscopes

KARL STORZ — ENDOSKOPE

			for use with					
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC
	11008 E	**Catheter,** 5 Fr., without adaptor	●	●	●	–	–	–
	10479 F	**Adaptor,** for Suction Catheter 10468 D, 10478 D and 11008 E	●	●	●	–	–	–
	11301 CA	**Leaflet Valve,** for single use, package of 20	●	●	●	●	●	●
	11301 CB	**Suction Valve,** reusable	●	●	●	●	●	●
	11301 CD	**Irrigation Adaptor,** for machine cleaning, reusable, for fiberscopes	●	●	●	●	●	●
	11301 CE	**Suction Valve,** for single use, package of 20	●	●	●	●	●	●
	11301 BM	**Adaptor,** for leakage test, for Belimed washer-disinfectors	●	●	●	●	●	●

3-11

Optional Accessories

for Broncho-Fiberscopes

KARL STORZ — ENDOSKOPE

			for use with					
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC
	11301 FF2	**Adaptor for MIELE Cleaning Machines,** with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●	●	●	●
	11301 GG2	**Adaptor,** for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors	●	●	●	●	●	●
	11301 HH	**Adaptor for BHT Cleaning Machines,** for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●	●	●	●
	11301 KK2	**Adaptor,** for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately!	●	●	●	●	●	●
	11301 D4	**Battery Light Source LED for Endoscopes,** with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection,** with 2 Photo Batteries 121306 P	●	●	●	●	●	●
	121306 P	**Photo Battery,** lithium, 3 V, CR 123 A						

Components/Spare Parts see chapter 16

3-11

UNIMAT® 30 NEW

Suction System

KARL STORZ — ENDOSKOPE

Special Features:

- **High suction performance of 30 l/min**
- **Particularly low noise and vibration**
- **Fast vacuum build-up to 85 kPa**
- **Maintenance-free cylinder/piston system**
- **Very easy to use**
- **Hydrophobic bacterial filter protects pump**
- **Problem-free cleaning**
- **For use in the doctor's office or hospital**



25 3200 01 **UNIMAT® 30, Suction Pump Set,**
power supply 230 VAC, 50/60 Hz
including:
Bacterial Filter
Secretion Bottle, 2 l
Bottle Cap, with grip
Connecting Tube, short
Patient Tube
Overflow Case
Mains Cord, length 300 cm
VACUsafe Promotion Pack Suction*

25 3200 01C **Same,** power supply 115 VAC, 50/60 Hz

Specifications:

Suction performance	30 l/min
Vacuum	up to 85kPa, 640 mmHg
Power supply	115/230 VAC, 50/60 Hz
Dimensions w x h x d	245 x 345 x 282 mm
Weight	7 kg
Certified to	IEC 601-1, CE label acc. to MDD

Rated power/ power consumption	1A, 100 Watt (115 VAC) 0.45 A, 100 Watt (230 VAC)
Protection class	protection class I, BF, IPX 1
Inspections & certifications	MDD 93/42 EWG, EN 60601-1, EN 60601-1-2, EN 10079-1, ISO 9001, UL 2601-1

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Optional accessories for UNIMAT® 30 see page 637
Components/Spare Parts see chapter 16

3-11

Optional Accessories

for UNIMAT® 30

KARL STORZ — ENDOSKOPE

Accessories



for Bronchoscopy:

10432 N **Aspirator,** for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters

10432 T **Same,** without cut-off hole



25 3200 80 **Bacterial Filter**

25 3200 81 **Secretion Bottle,** 2 l

25 3200 82 **Bottle Cap,** with grip

25 3200 85 **Overflow Case**



25 3200 83 **Connecting Tube,** short



25 3200 84 **Patient Tube**



400 A **Mains Cord,** length 300 cm



29005 PH **Pump Holder,** for attaching suction pump UNIMAT® 30 **25** 3200 01 to equipment cart, for mounting to 2 Equipment Rails 29003 GS

Single-use accessories from mtp*



VACUsafe Canister, 1.5 l, 2 l and 3 l

VACUsafe Suction Bag, 1.5 l, 2 l, 3 l, with filter for single use, color code: green



Gelling Granulate, in 20 g bag



VACUsafe Suction Tube, with red and blue multiadaptor for single use, unsterile, length 170 cm

VACUsafe Connecting Tube, with green multiadaptors, unsterile, length 30 cm

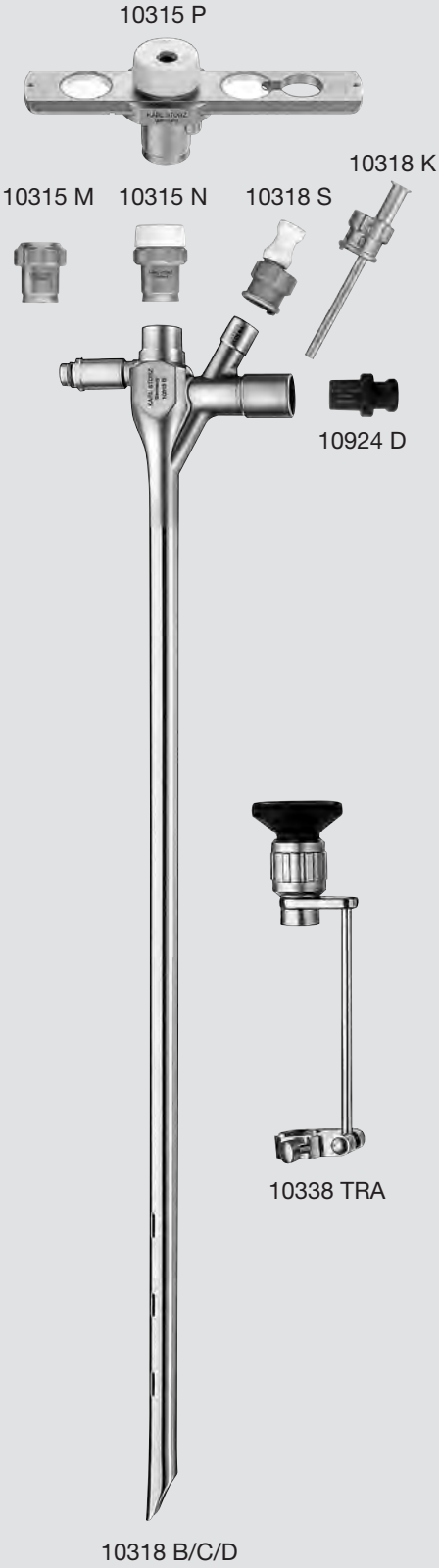
VACUsafe Canister Holder, for 25 x 10 mm and 34 x 8 mm rails

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

3-11

Universal Bronchoscopes for Adults

Standard model with fiber optic light carrier for distal illumination

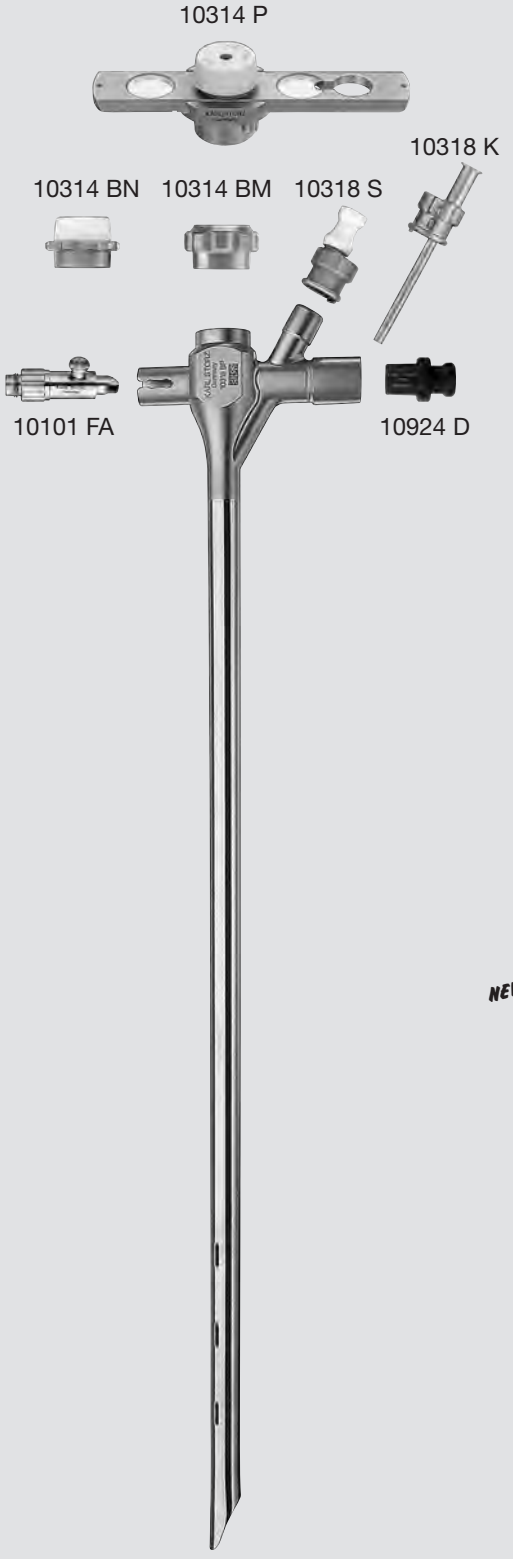


	10318 B	**Universal Bronchoscope,** with Fiber Optic Light Carrier 10318 L, size 8.5, length 43 cm
	10318 C	**Same,** size 7.5
	10318 D	**Same,** size 6.5
	10315 M	**Glass Window Plug**
	10315 N	**Rubber Telescope Guide**
	10315 P	FLUVOG **Adaptor,** with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
	10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
	10318 S	**Instrument Guide,** for suction catheter
	10338 TRA	**Adjustable Magnifier, autoclavable,** swing-away type, with ring adaption
	10924 D	**Adaptor,** for respirator
NEW	10924 DL	**Adaptor,** for respirator, long version

11-98$_3$

Universal Bronchoscopes for Adults

with proximal illumination



10318 BP/CP/DP

Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Prismatic Light Deflector 10101 FA inserted proximally ensures best illumination and enables full use of lumen through operating instruments**
- **Excellent view of operation area**
- **Smooth lumen allows insertion of flexible bronchoscopes**

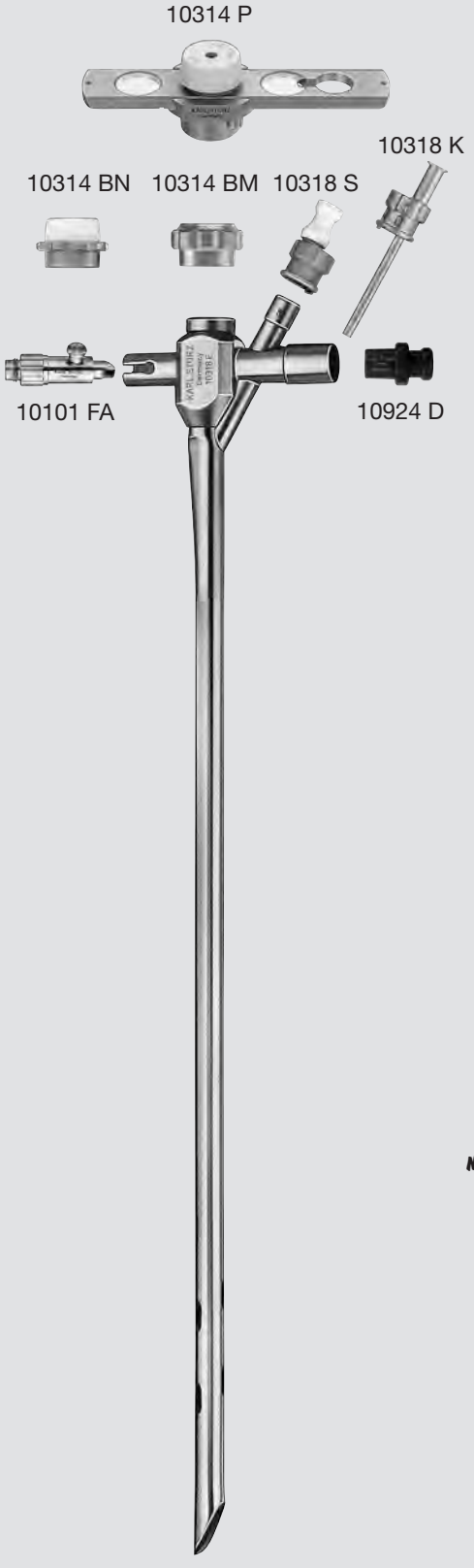
	10318 BP	**Bronchoscope Tube Universal,** without distal fiber optic light carrier, size 8.5, length 43 cm, for use with proximally insertable Prismatic Light Deflector 10101 FA
	10318 CP	**Same,** size 7.5
	10318 DP	**Same,** size 6.5
	10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
	10314 BM	**Glass Window Plug**
	10314 BN	**Rubber Telescope Guide**
	10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
	10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
	10318 S	**Instrument Guide,** for suction catheter
	10924 D	**Adaptor,** for respirator
NEW	10924 DL	**Adaptor,** for respirator, long version

11-98$_3$

Full Lumen Operating Tracheo-Bronchoscopes

with proximal illumination

KARL STORZ — ENDOSKOPE



Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Proximal diameter enlarged ovally: thus prismatic light deflector 10101 FA can be inserted as far as possible in the lumen to ensure best illumination and full use of inner diameter**
- **Excellent view of operation area**
- **Round inner diameter allows insertion of bronchial bougies ranging between 30 up to 37 Fr.**
- **Distal end of tracheoscopes without lateral holes for more effective oxygen supply in the axial direction, i. e. in case of tumors in the upper tracheal area**

	10318 F	**Full Lumen Operating Tracheoscope,** size 12 mm, length 33 cm
	10318 FL	**Full Lumen Operating Bronchoscope,** size 12 mm, length 43 cm
	10318 G	**Full Lumen Operating Tracheoscope,** size 14 mm, length 33 cm
	10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
	10314 BM	**Glass Window Plug**
	10314 BN	**Rubber Telescope Guide**
	10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
	10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
	10318 S	**Instrument Guide,** for suction catheter
	10924 D	**Adaptor,** for respirator
NEW	10924 DL	**Adaptor,** for respirator, long version

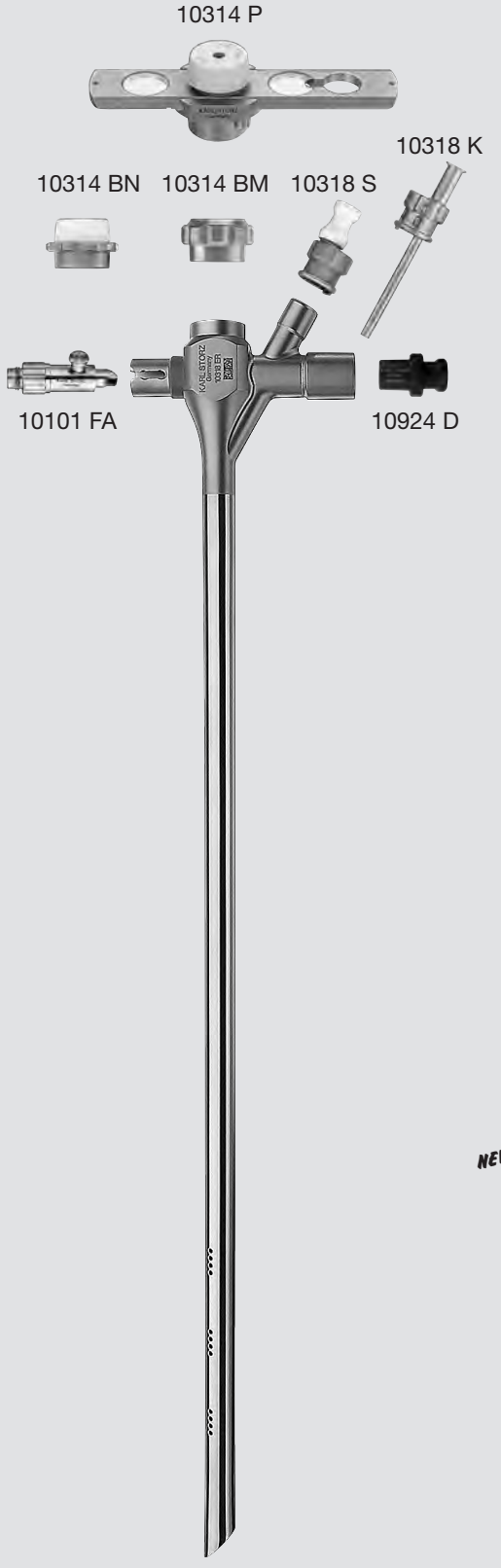
Further tracheoscopes see chapter 10, LARYNGOSCOPY

11-98$_3$

Full Lumen Operating Tracheo-Bronchoscopes

with proximal illumination

KARL STORZ — ENDOSKOPE



10318 ER/GL

Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Prismatic Light Deflector 10101 FA inserted proximally ensures best illumination and enables full use of lumen through operating instruments**
- **Excellent view of operation area**
- **Round inner diameter allows insertion of bronchial bougies ranging between 30 up to 37 Fr.**
- **Distal end beveled 45°, round airholes; especially suited for the application of stents.**

	10318 ER	**Full Lumen Operating Bronchoscope,** size 11 mm, length 43 cm, modified for application of stents, distal end with lateral airholes and 45° oblique beak, for use with Prismatic Light Deflector 10101 FA, color code: green
	10318 GL	**Same,** size 14 mm, color code: red
	10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
	10314 BM	**Glass Window Plug**
	10314 BN	**Rubber Telescope Guide**
	10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
	10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
	10318 S	**Instrument Guide,** for suction catheter
	10924 D	**Adaptor,** for respirator
NEW	10924 DL	**Adaptor,** for respirator, long version

11-98₂

Dilatation Tracheoscopes

GRONINGEN Model



10337 R	**Optical Dilation Tracheoscope,** GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P
10337 S	**Same,** outer diameter 8 mm
10337 T	**Optical Intubation Tracheoscope,** GRONINGEN model including: **Sheath,** for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA **Distance Ring,** with fixation screw for length adjustment of the endotracheal tubes
10005 AA	**HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
10005 BA	**HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
10314 P	FLUVOG **Adaptor,** with observation window, cap with rubber seal and with window, adjustable
10316 LR	**Adaptor,** for respirator
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable

3-11

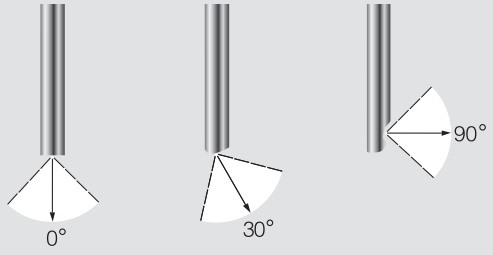
Components/Spare Parts see chapter 16

10320 AA



For use with Bronchoscopes 10318, Optical Forceps 10350 and Deflecting Device 10357

10320 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
10320 BA	**HOPKINS® Forward-Oblique Telescope 30°,** diameter 5.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
10320 DA	**HOPKINS® Lateral Telescope 90°,** diameter 5.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: blue



10320 AA 10320 BA 10320 DA

5-04₁

Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD) see chapter 13, FLUORESCENCE

Optical Forceps

10320 AA/BA

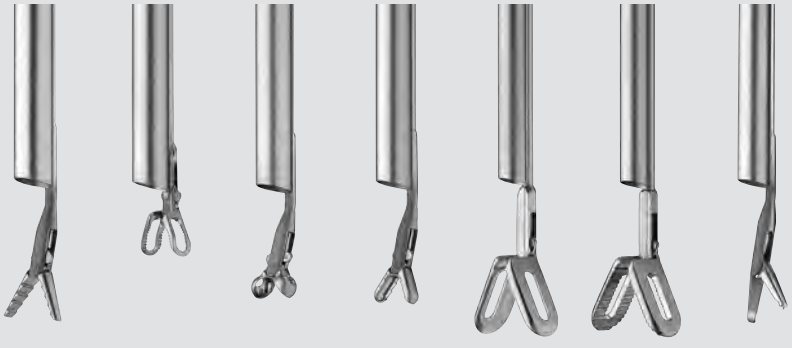


Special Features:

- **The jaws of the forceps and the region of biopsy are well visualized prior to and during the procedure.**
- **Foreign bodies can now be removed quickly under optical control.**
- **The spring-action handle of the grasping forceps prevents excess pressure being applied to the foreign body.**
- **The depth of cut during biopsy is much easier to assess.**

For use with HOPKINS® Telescopes 10320 AA/BA and Universal Bronchoscopes 10318 B – CP, size 8.5 to 7.5

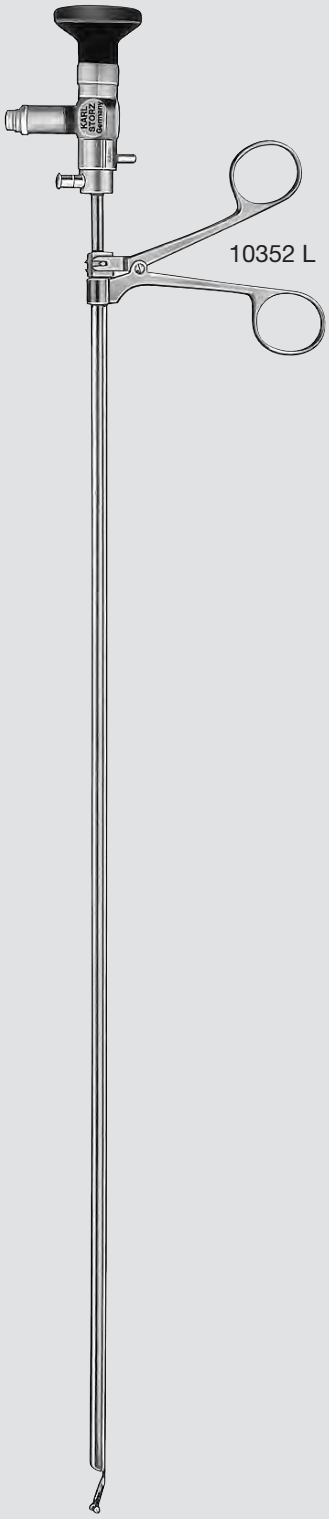
	10350 HF	**Optical Forceps,** alligator, for hard foreign bodies, large jaws, with spring-action handle
	10350 KF	**Optical Forceps,** for peanuts and soft foreign bodies, with spring-action handle
	10350 L	**Optical Forceps,** spoon-shaped, round, for biopsy
	10350 U	**Optical Forceps,** universal, for biopsy, for the removal of foreign bodies and denatured tissue
NEW	10350 M	**Optical Forceps,** large jaws, sharp, for removing large fragments of tissue, for use with HOPKINS® Telescope 10320 AA
NEW	10350 MS	**Optical Forceps,** large jaws, blunt, serrated, for removing large foreign bodies, for use with HOPKINS® Telescope 10320 AA
NEW	10350 ST	**Optical Forceps,** for repositioning and removing stents, one fixed jaw



10350 HF 10350 KF 10350 L 10350 U 10350 M 10350 MS 10350 ST

11-98$_3$

Optical Forceps



Special Features:

- **The jaws of the forceps and the region of biopsy are well visualized prior to and during the procedure.**
- **Foreign bodies can now be removed quickly under optical control.**
- **The spring-action handle of the grasping forceps prevents excess pressure being applied to the foreign body.**
- **The depth of cut during biopsy is much easier to assess.**

For use with HOPKINS® Telescope 10328 AA and Universal Bronchoscopes 10318 B – DP, size 8.5 to 6.5

	10328 AA	**HOPKINS® Straight Forward Telescope 0°,** diameter 4.5 mm, length 50 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
	10352 H	**Optical Forceps,** alligator, for hard foreign bodies
NEW	10352 KF	**Optical Forceps,** for peanuts and soft foreign bodies, with spring-action handle
	10352 L	**Optical Forceps,** spoon-shaped, round, for biopsy
	10352 U	**Optical Forceps,** universal, for biopsy, for removal of foreign bodies and denatured tissue



10352 H 10352 KF 10352 L 10352 U

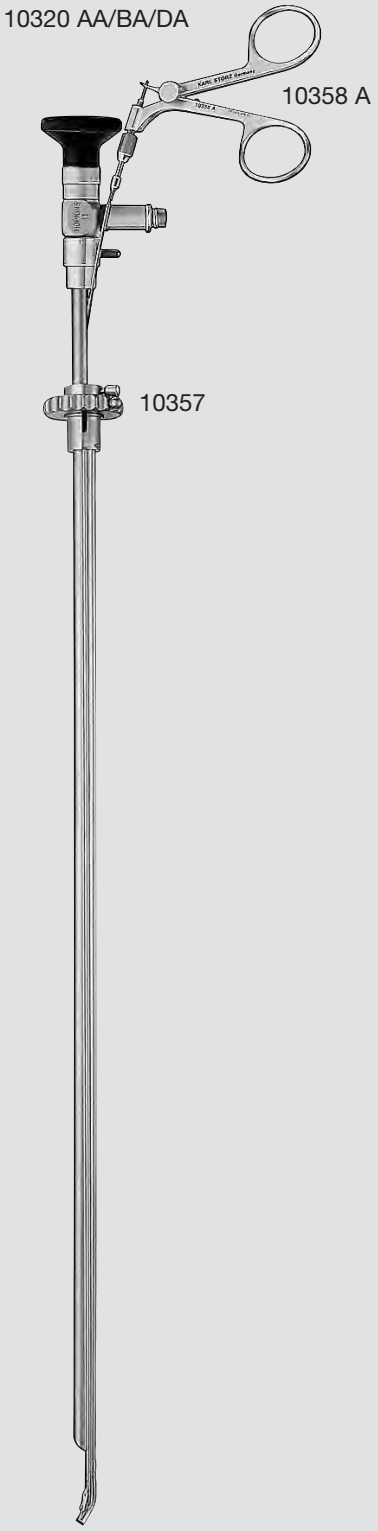
11-98₂

Steerable Optical Instruments

for Biopsy

KARL STORZ — ENDOSKOPE

Working length 43 cm

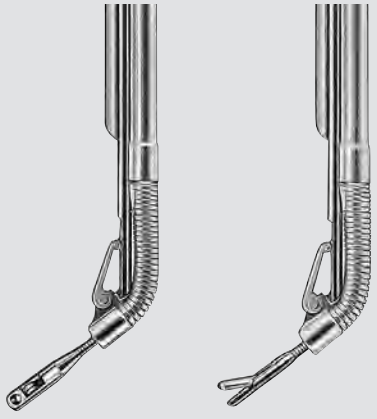


For use with Universal Bronchoscopes with distal illumination 10318 B/C, size 8.5 and 7.5 and HOPKINS® Telescopes 10320 AA/BA/DA

10357 **Deflecting Device,** with telescope guiding tube from proximal to distal end

Instruments for use with Deflecting Devices 10357:

10358 A **Flexible Forceps,** spoon-shaped, for biopsy, for removal of denaturated tissue, working length 60 cm



10357
10358 A

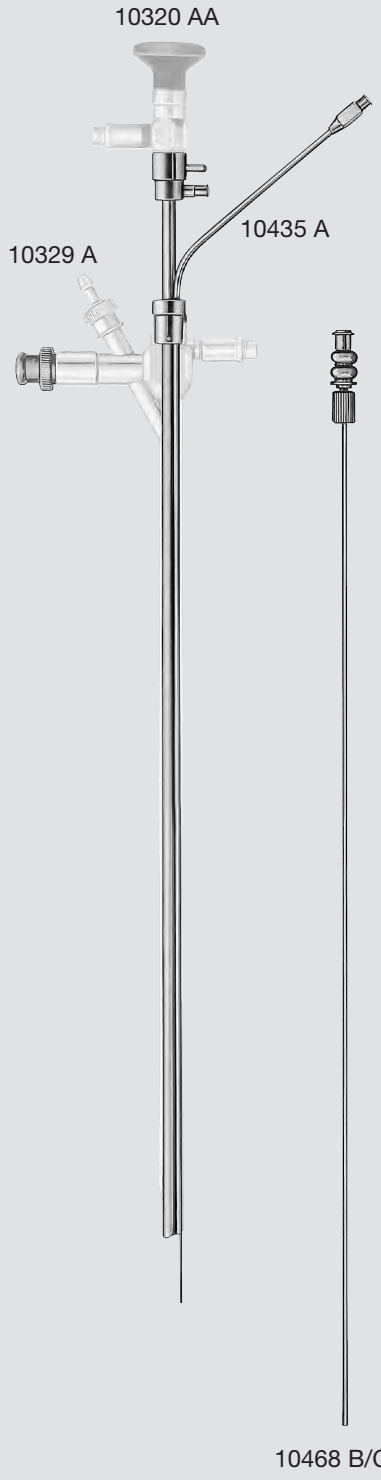
10357

The jaws of the Flexible Biopsy Forceps 10358 A can be mechanically pressed against the intact mucosa. This enables collecting material which would slip off a conventional forceps during tangential grasping.

11-98$_2$

Rigid Instrument Guide

with Antifog System,
Accessories



For use with HOPKINS® Telescope 10320 AA and Universal Bronchoscopes 10318 B – D, size 8.5 to 6.5

10329 A	**Instrument Guide,** with A. F. (anti-fog) device, can be attached to bronchoscope

Instruments for use with HOPKINS® Telescope 10320 AA and Instrument Guide 10329 A

10435 A	**Puncture Needle,** for puncture biopsy, diameter 1.4 mm, working length 48 cm, for histology
10468 B	**Suction Catheter,** 7.5 Fr., with Adaptor 10479 B
10468 C	**Same,** 6 Fr., with Adaptor 10479 C
10468 D	**Same,** 4.5 Fr., with Adaptor 10479 F
10478 D	**Suction Catheter,** 5 Fr., only, package of 6
10479 B	**Adaptor,** for Suction Catheter 10468 B/10478 B
10479 C	**Same,** for Suction Catheter 10468 C/10478 C
10479 F	**Same,** for Suction Catheter 10468 D/10478 D

Oxygen is directed at the lens through a channel in Instrument Guide 10329 A which prevents fogging of the telescope.

11-98₂

TONN **Stent Applicator**

KARL STORZ — ENDOSKOPE

Tracheobronchial stents are widely used in bronchology. Indications are primarily malignant and benign tracheobronchial stenoses, but may also include tracheo-esophageal fistula and, to a certain extent, tracheobronchial malacia. It concerns mostly patients who cannot undergo surgery for functional and/or prognostic reasons. Of the three basic stent types available, i.e. polymer, metal and hybrid, the DUMON silicone stent is the most commonly used worldwide[1]. Since the beginning of the 90s, this stent is available in various sizes and diameters, also as bifurcation stent. Within 10 years, the "Dumon stent" has de facto acquired "gold standard" status[2].

A rigid bronchoscope is required to facilitate stent placement. Not only does this instrument enable insertion of this so-called "foreign body", it also – if necessary – performs repositioning and extraction. Prior to stent placement, all other interventions, such as LASER treatment, tumor resection and stenosis dilatation, are performed.

The stenosis/fistula are then measured. A stent with the appropriate diameter and length is selected on the basis of existing endobronchial conditions. A "rule of thumb" is to select a stent that is approx. two millimeters thicker than the outer diameter of the bronchoscope with the largest diameter, which is to be passed through the stenosis. In the case of malignant stenosis, the distal and proximal end of the stent should be in between 0.5 cm and 1.0 cm longer than the stenosis, in order to pass it successfully.

The silicone stent must be folded before placement in the bronchial system. KARL STORZ has designed a special applicator system for this purpose. The stent to be deployed is first placed in the folding block, folded and then advanced through the applicator system. Care should be taken that the stent and applicator is lubricated with a lubricant suitable for use with endoscopes. The applicator system can then be pushed through the bronchoscope or tracheoscope. The stent is "released" when the applicator system and the broncho/tracheoscope is withdrawn. X-Ray control is often helpful, but not absolutely necessary. Should repositioning be required, the stent can be moved backwards and forwards with an optical foreign body forceps.

Silicone bifurcation stents can also be placed using this applicator system.

Please note: the FREITAG dynamic stents are not suitable for this applicator system. These require a stent forceps[2] specifically designed by KARL STORZ for this purpose.

References:
[1] Dumon JF: A dedicated tracheobronchial stent. Chest 1990;97:328-332
[2] Freitag L: „Tracheobronchiale Stents" in Interventional Bronchoscopy, 171-185, Karger, Basel, 2000

H. TONN, M.D.,
Head Physician
Klinikum Hannover Oststadt,
Klinik für Pneumologie,
Hannover, Germany

Please note:

The TONN **Stent Applicators 10520, 10530, 10540 and 10550 are available from:**

NOVATECH SA
Z.I. Athélia III – Voie Antiope
13705 La Ciotat Cédex
FRANCE

Tel: +33 (0) 890 710 608
Fax: +33 (0) 890 710 609

5-04$_1$

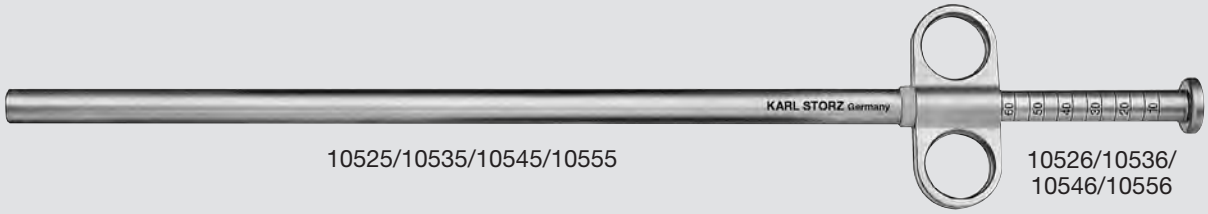
TONN **Stent Applicator**



10521/22/23, 10531/32/33, 10542, 10552



10524/10534/10544/10554



10525/10535/10545/10555

10526/10536/
10546/10556

10520 TONN **Stent Applicator,** for placement of DUMON tracheobronchial silicone stents with outer diameter 14 – 18 mm and max. 10 cm length, for use with Full Lumen Operating Tracheoscope 10318 GL, size 14 mm, length 43 cm, color code: blue

including:
Basic Block
Folding System
Clamping Rod
Loading Rod
Introducer Tube, with 2-ring handle
Pusher

10530 TONN **Stent Applicator,** for placement of DUMON tracheobronchial silicone stents with outer diameter 14 – 18 mm and max. 16 cm length, for use with Full Lumen Operating Tracheoscope 10318 GL, size 14 mm, length 43 cm, color code: red

including:
Basic Block
Folding System
Clamping Rod
Loading Rod
Introducer Tube, with 2-ring handle
Pusher

10540 TONN **Stent Applicator,** for placement of DUMON tracheobronchial silicone stents with outer diameter 8 – 13 mm and max. 10 cm length, for use with Full Lumen Operating Bronchoscope 10318 ER, size 11 mm, length 43 cm, color code: green

including:
Basic Block
Folding System
Clamping Rod
Loading Rod
Introducer Tube, with 2-ring handle
Pusher

10550 TONN **Stent Applicator,** for placement of DUMON tracheobronchial silicone stents with outer diameter 9 – 12 mm and max. 6 cm length, for use with Bronchoscope Tube Universal 10318 DP, size 6.5 mm, length 43 cm, color code: white

including:
Basic Block
Folding System
Clamping Rod
Loading Rod
Introducer Tube, with 2-ring handle
Pusher

5-041

Please note: TONN stent applicators are available from NOVATECH see page 648
Full Lumen Operating Tracheo-Bronchoscopes 10318 ER/GL see page 641
Components/Spare Parts see chapter 16

FREITAG **Stent Forceps**

KARL STORZ — ENDOSKOPE

The Placement of Bifurcated Airway Stents – Technique and Instruments

The placement of airway stents has become an increasingly accepted means of palliation for patients with stenoses of the central airways. While straight silicone or metal stents are relatively easy to implant, placement of bifurcated stents seems to be more complicated.

Indications for the use of Dynamic-Stents are strictures and malacia of the trachea, tumor infiltration or compression of the bifurcation, or tracheoesophageal fistulas. The insertion method and the instrument developed especially for this procedure are presented here.

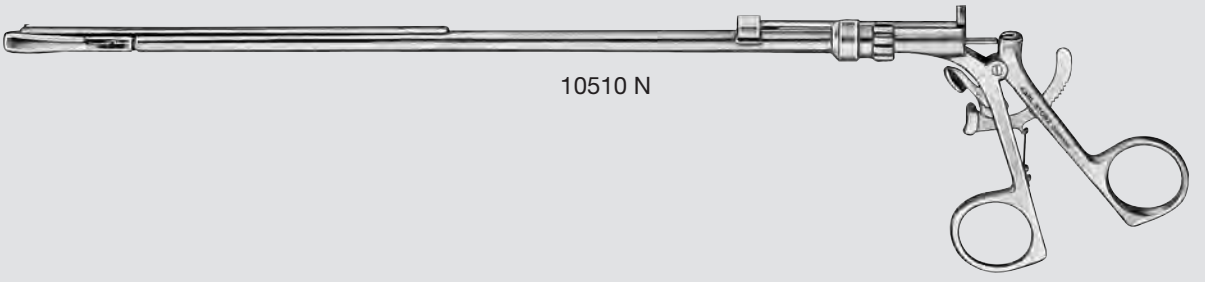
Rigid bronchoscopy is performed under general anesthesia with muscle paralysis. After photoresection of obstructing tissues or dilation of benign strictures the rigid bronchoscope/tracheoscope is removed and the larynx aperture is focused on with a normal laryngoscope.

The bifurcated stent is grasped from inside with a stent forceps. By closing the jaws the bronchial limbs of the stent are narrowed to facilitate the passage through the vocal cords and the stenosis. The stent is intubated with the forceps similarly to the intubation of an endotracheal tube. After passing the larynx and the compressed areas of the trachea the ratchet of the handle is released and the forceps is carefully opened. One can easily feel how the bronchial limbs glide into the main bronchi as the forceps saddles the carina. Then a movable pusher mounted on the instrument is used to anchor the stent while the grasping part of the stent is withdrawn. After complete removal of the forceps the patient is reintubated with a short bronchoscope or tracheoscope and stent position and function are checked. A thin flexible bronchoscope is used to aspirate any mucus and contrast medium if this has been used. Special care is taken that the right upper bronchial lobe is not blocked by the limb of the stent.

Although placement is usually possible without visual control it is further facilitated and safer under x-ray fluoroscopy. For very critical situations with tumor invasion close to the carina we used 4 ml of contrast medium to mark the narrowed trachea and the bifurcation. Under fluoroscopic control all stents could be positioned without complications. We have not seen a single tear or a perforation but one has to be aware of this potential hazard when placing a stent.

Theoretically placement of bifurcated stents with the method described could be performed without rigid bronchoscopy. Using the stent forceps, the whole procedure takes less than a minute. However, because of potential complications, we strongly recommend that only those surgeons and chest physicians should place stents who are familiar with all bronchoscopical techniques including rigid bronchoscopy.

Prof. L. FREITAG, M. D.,
D. GRESCHUCHNA, M. D.



10510 N



10510 N FREITAG **Stent Forceps,** for the placement of dynamic stents

including:

Handle, with ratchet
Outer Sheath
Forceps Insert
Pusher

11-98$_2$

Components/Spare Parts see chapter 16

Pediatric Bronchoscopes

with proximal illumination

KARL STORZ — ENDOSKOPE

Special Features:

- **Absence of distal light carrier does not restrict inner diameter**
- **Prismatic Light Deflector 10101 FA inserted proximally ensures best illumination and enables full use of lumen through operating instruments**
- **Excellent view of operation area**
- **Lateral channel for introducing suction catheters and fine instruments**



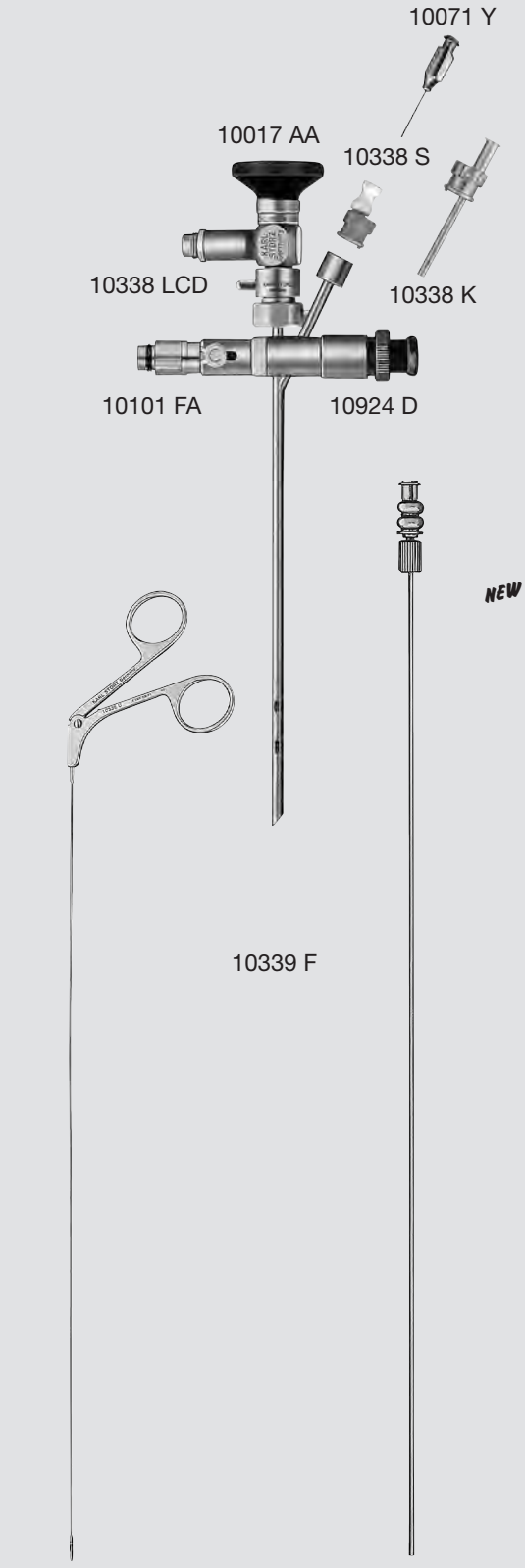
	10339 AL	DOESEL-HUZLY **Bronchoscope,** size 6, length 40 cm
	10339 BL	**Same,** size 5
	10339 A	DOESEL-HUZLY **Bronchoscope,** size 6, length 30 cm
	10339 B	**Same,** size 5
	10339 BB	**Same,** size 4.5
	10339 C	**Same,** size 4
	10339 G	**Same,** size 3.7
	10339 CD	**Same,** size 3.5
	10339 EEE	**Same,** size 3
	10339 CC	DOESEL-HUZLY **Bronchoscope,** size 4, length 26 cm
	10339 GG	**Same,** size 3.7
	10339 DD	**Same,** size 3.5
	10339 EE	**Same,** size 3
	10339 D	DOESEL-HUZLY **Bronchoscope,** size 3.5, length 18.5 cm
	10339 E	**Same,** size 3
	10339 F	**Same,** size 2.5
	10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
	10338 M	**Glass Window Plug**
	10338 N	**Rubber Telescope Guide,** for use with telescopes and optical forceps
	10338 P	FLUVOG **Adaptor,** with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
	10338 S	**Guide Piece,** for suction catheter, short, bronchoscope for children and infants
	10338 TRA	**Adjustable Magnifier, autoclavable,** swing-away type, with ring adaption
	10924 D	**Adaptor,** for respirator
NEW	10924 DL	**Adaptor,** for respirator, long version
	10318 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
	10338 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F

1-99₃

Instrument Set for Neonates

for Endoscopic Treatment of Tracheo-Esophageal Fistulae

KARL STORZ — ENDOSKOPE

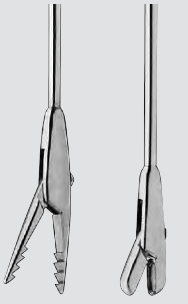


Instrument set for neonates for endoscopic treatment of tracheo-esophageal fistulae

10339 F	DOESEL-HUZLY **Bronchoscope,** size 2.5, length 18.5 cm
10101 FA	**Prismatic Light Deflector, autoclavable,** with connection to fiber optic light cable
10017 AA	**HOPKINS® II Straight Forward Telescope 0°,** diameter 1.9 and 2.1 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green
10338 LCD	**Telescope Bridge,** for fixed position between bronchoscope and telescope
10071 Y	**Injection Cannula**
10338 S	**Guide Piece,** for suction catheter, short, bronchoscope for children and infants
10924 D	**Adaptor,** for respirator
NEW 10924 DL	**Adaptor,** for respirator, long version
10338 K	**Injection Cannula,** for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F

For use with working channel of Bronchoscopes 10339 A/B/BB/C – G, under control of HOPKINS® Telescopes 10324 AA/10020 ATA/10018 AA/10017 AA

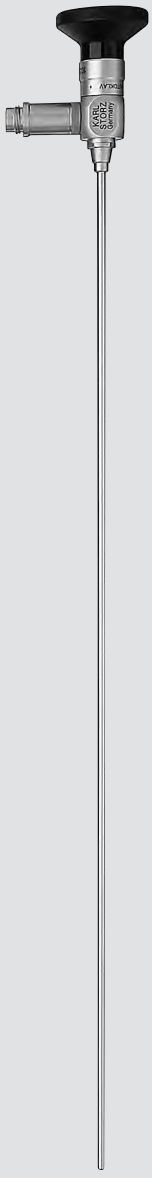
10338 U	**Forceps,** alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
10338 X	**Forceps,** spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
10468 B	**Suction Catheter,** 7.5 Fr., with Adaptor 10479 B
10468 D	**Suction Catheter,** 4.5 Fr., with Adaptor 10479 F



10338 U 10338 X

1-99$_3$

HOPKINS® Telescopes

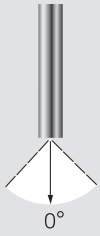




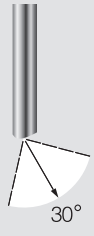
10338 LCD



10338 R/RK/RL



10018 AA
10020 ATA
10005 AA
10324 AA
10023 ABA



10324 BA

For use with 18.5 cm DOESEL-HUZLY **Bronchoscopes 10339 D/E,** telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10018 AA **HOPKINS® Straight Forward Telescope 0°,** diameter 2.7 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY **Bronchoscopes 10339 A/B/BB/C/CD/G,** telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10020 ATA **HOPKINS® Straight Forward Telescope 0°,** diameter 2.9 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

10005 AA **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, diameter 4 mm, length 30 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY **Bronchoscopes 10339 A/B/BB/C/CD/G,** telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

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

10324 BA **HOPKINS® II Forward-Oblique Telescope 30°,** diameter 2.9 mm, length 36 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

For use with 40 cm DOESEL-HUZLY **Bronchoscopes 10339 AL/BL,** telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

10023 ABA **HOPKINS® Straight Forward Telescope 0°,** diameter 2.8 mm, length 44 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

For use with Telescopes 10017/10018/10020/10005 AA

10338 LCD **Telescope Bridge,** for fixed position between bronchoscope and telescope

For use with Telescope 10324 AA

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

10338 RL **Telescope Bridge,** for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 CC/DD/EE/GG

For use with Telescope 10005 AA

10338 R **Telescope Bridge,** for fixed position between HOPKINS® II Telescope 10005 AA and Bronchoscopes 10339 CC/GG

11-98₂

Optical Forceps and Scissors

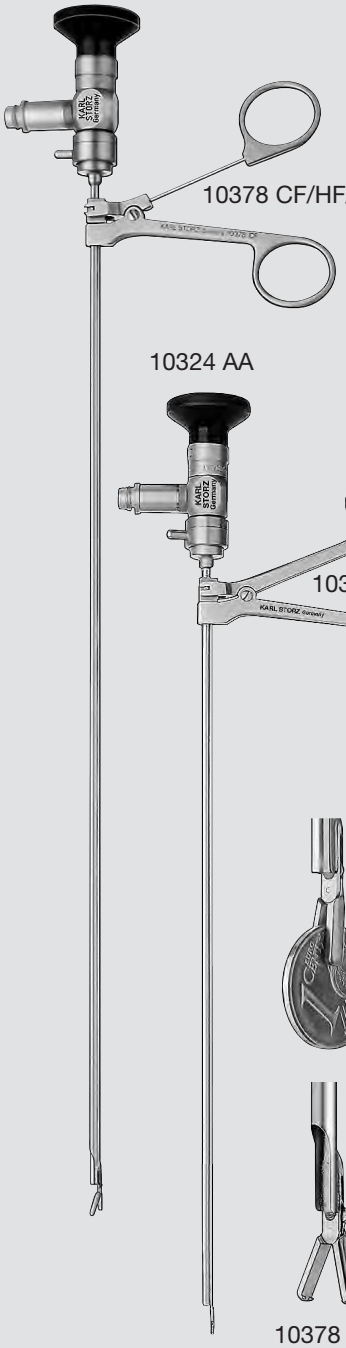
for Pediatric Bronchoscopes size 6 – 3.5, length 30 cm – 18.5 cm

KARL STORZ — ENDOSKOPE

Special Features:

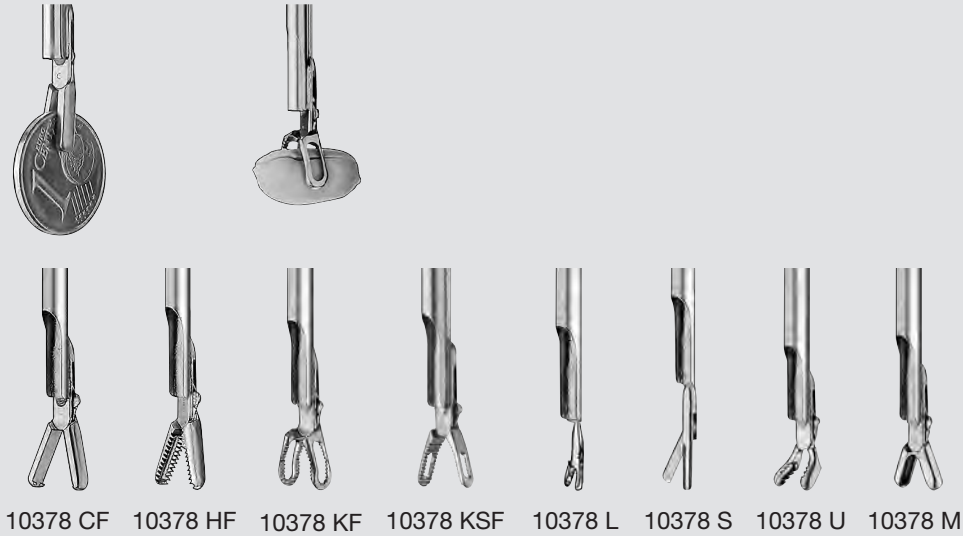
- **Newly designed forceps enable removing of foreign bodies under precise optical control not previously possible**
- **Small size of forceps allows them to be introduced through pediatric bronchoscopes as of size 3.5 and larger in lengths ranging from 18.5 up to 30 cm**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

10324 AA



For use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – CD

	10378 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
	10378 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
	10378 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
NEW	10378 KSF	**Optical Forceps,** VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
	10378 L	**Optical Forceps,** spoon-shaped, for biopsy
	10378 S	**Optical Scissors**
	10378 U	**Optical Forceps,** universal, for biopsy and foreign bodies removal
	10378 M	**Optical Forceps,** spoon-shaped, oval, for biopsy, large model



10378 CF | 10378 HF | 10378 KF | 10378 KSF | 10378 L | 10378 S | 10378 U | 10378 M

1-99₂

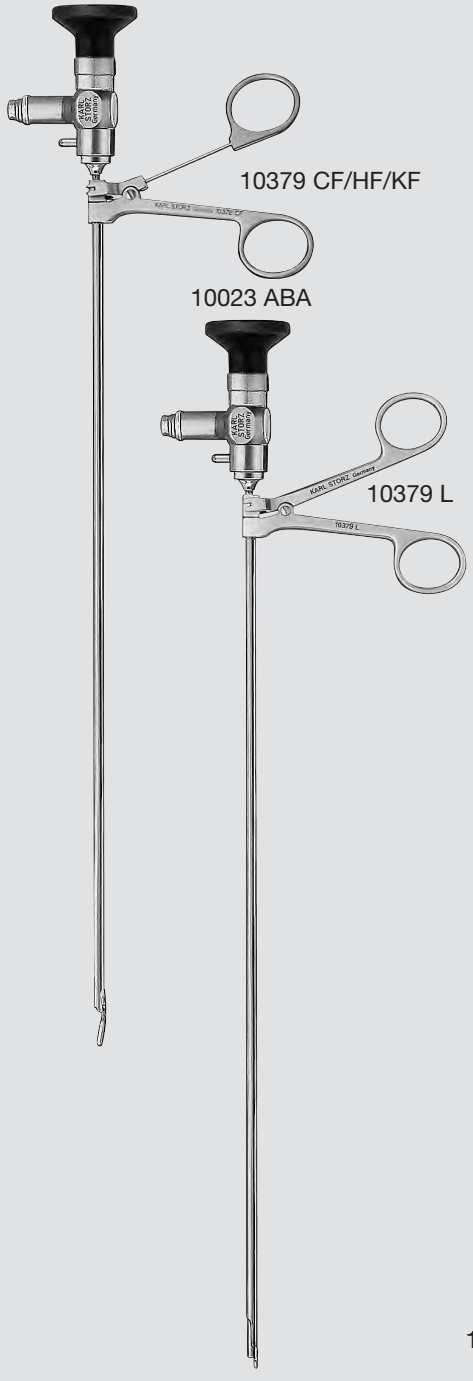
Optical Forceps

for Pediatric Bronchoscopes size 6 and 5, length 40 cm

Special Features:

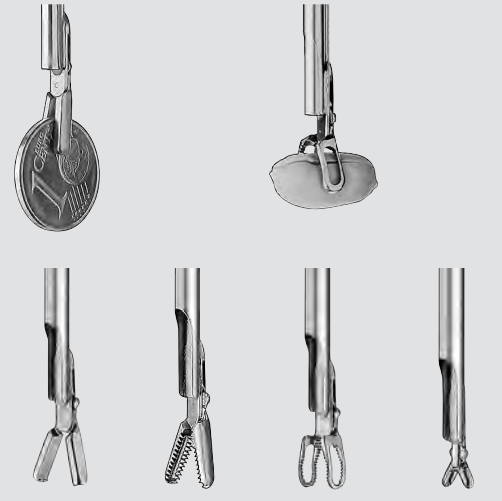
- **Newly designed forceps for hard and soft foreign bodies enable removal under precise optical control not previously possible**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

10023 ABA



For use with HOPKINS® Telescope 10023 ABA and Bronchoscopes 10339 A – CD

10379 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
10379 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
10379 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
10379 L	**Optical Forceps,** spoon-shaped, for biopsy



10379 CF 10379 HF 10379 KF 10379 L

5-042

Optical Forceps

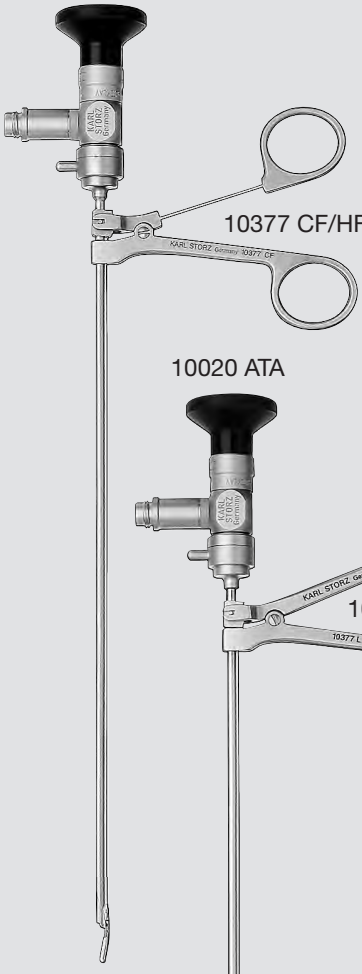
for Pediatric Bronchoscopes size 4 – 3.5, length 26 cm – 18.5 cm

KARL STORZ — ENDOSKOPE

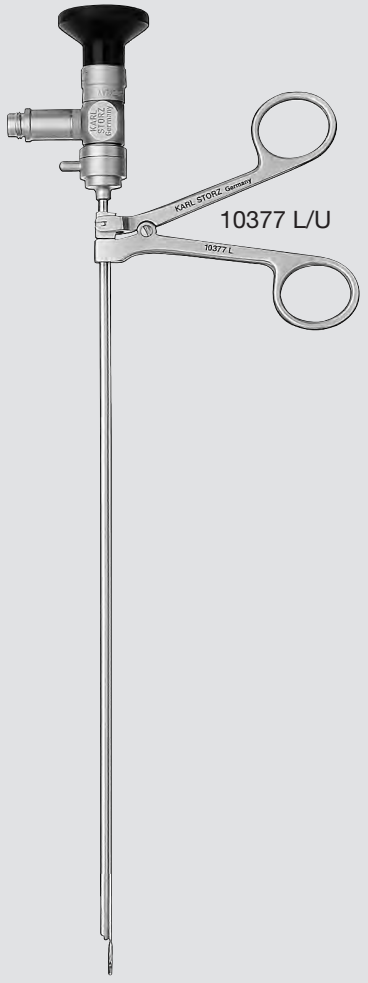
Special Features:

- **Newly designed forceps for hard and soft foreign bodies enable removal under precise optical control not previously possible**
- **Small size of forceps allows them to be introduced through pediatric bronchoscopes as of size 3.5 cm and larger in lengths of 26 cm or 18.5 cm**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

10020 ATA

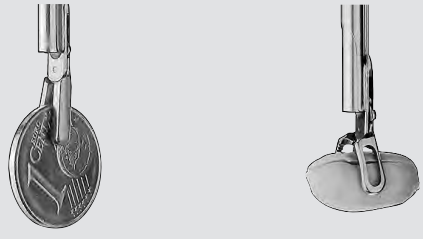


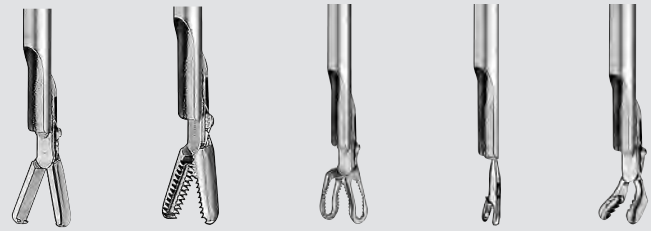
10020 ATA



For use with HOPKINS® Telescope 10020 ATA and Bronchoscopes 10339 CC/GG/DD/D

10377 CF	**Optical Forceps,** 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
10377 HF	**Optical Forceps,** alligator, for grasping hard foreign bodies, with spring-action handle
10377 KF	**Optical Forceps,** with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
10377 L	**Optical Forceps,** spoon-shaped, for biopsy
10377 U	**Optical Forceps,** universal, for biopsy and foreign bodies removal





10377 CF | 10377 HF | 10377 KF | 10377 L | 10377 U

5-04₁

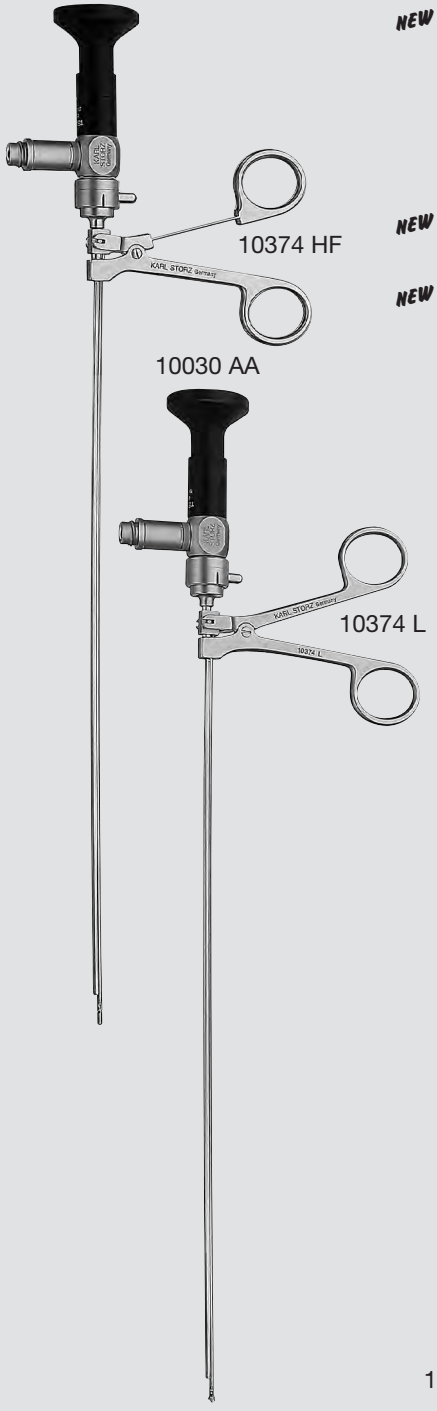
Optical Forceps NEW

for Pediatric Bronchoscopes size 4 – 2.5, length 26 cm – 18.5 cm

Special Features:

- **Small size of forceps allows them to be introduced through pediatric bronchoscopes as of size 2.5 and larger and in lengths ranging from 26 cm or 18.5 cm**
- **Foreign bodies can be removed quickly and with utmost safety**
- **Better assessment of the depth of cut when taking biopsies**

10030 AA



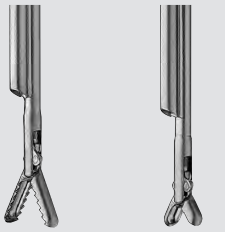
For use with Bronchoscopes 10339 CC/GG/DD/EE/D/E/F

NEW 10030 AA **Miniature Straight Forward Telescope 0°,** semirigid, **autoclavable,** fiber optic light transmission incorporated

Direction of view:	0°
Angle of view:	90°
Working length:	30.6 cm
Outer diameter:	1.3 mm
Color code:	green

NEW 10374 HF **Optical Forceps,** with alligator jaws, for grasping hard foreign bodies, with spring-action handle

NEW 10374 L **Optical Forceps,** spoon-shaped, for biopsy



10374 HF 10374 L

3-11

Forceps and Scissors for Bronchoscopy

single action jaws

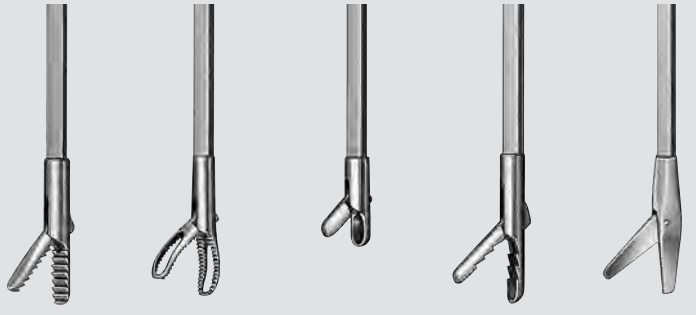


Sheath diameter 2.5 mm, working length 50 cm

10366 H	**Forceps,** alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 50 cm
10366 K	**Same,** for peanuts and soft foreign bodies
10366 L	**Same,** spoon-shaped, round, for biopsy
10366 U	**Same,** universal, for biopsy and foreign bodies removal
10366 S	**Scissors,** straight, for trituration of bone fragments

Sheath diameter 2.5 mm, working length 35 cm

10367 H	**Forceps,** alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
10367 K	**Same,** for peanuts and soft foreign bodies
10367 L	**Same,** spoon-shaped, round, for biopsy



10366 H
10367 H

10366 K
10367 K

10366 L
10367 L

10366 U

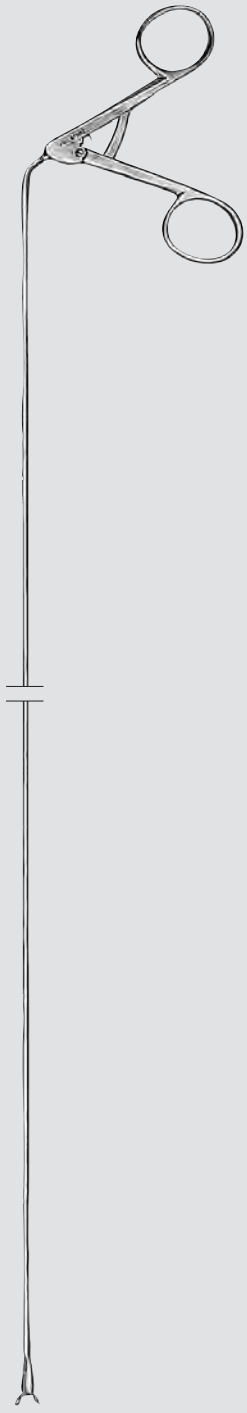
10366 S

5-04[1]

Forceps for Bronchoscopy

double action jaws

KARL STORZ — ENDOSKOPE



Sheath diameter 2.5 mm, working length 50 cm

10370 H	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 50 cm
10370 J	**Same,** pointed, serrated, for coins and flat foreign bodies
10370 K	**Same,** for peanuts and soft foreign bodies
10370 L	**Same,** spoon-shaped, round, for biopsy
10370 P	**Same,** with oval cupped jaws, fenestrated, for biopsy and foreign bodies
10370 U	**Same,** universal, for biopsy and foreign bodies removal



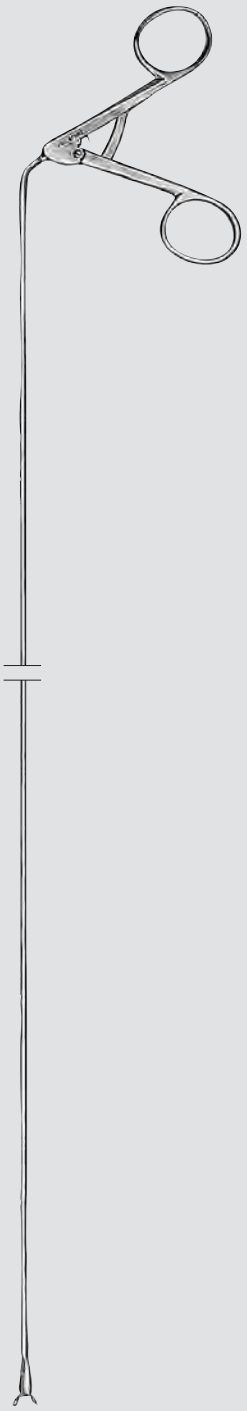
10370 H 10370 J 10370 K 10370 L 10370 P 10370 U

5-04$_1$

Forceps for Bronchoscopy

double action jaws

KARL STORZ — ENDOSKOPE



Sheath diameter 2 mm, working length 45 cm

10371 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
10371 KL	**Same,** for peanuts and soft foreign bodies
10371 LL	**Same,** spoon-shaped, round, for biopsy
10371 UL	**Same,** universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

10371 H	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
10371 J	**Same,** pointed, serrated, for coins and flat foreign bodies
10371 K	**Same,** for peanuts and soft foreign bodies
10371 L	**Same,** spoon-shaped, round, for biopsy
10371 P	**Same,** spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
10371 U	**Same,** universal, for biopsy and foreign bodies removal



10371 HL
10371 H

10371 J

10371 KL
10371 K

10371 LL
10371 L

10371 P

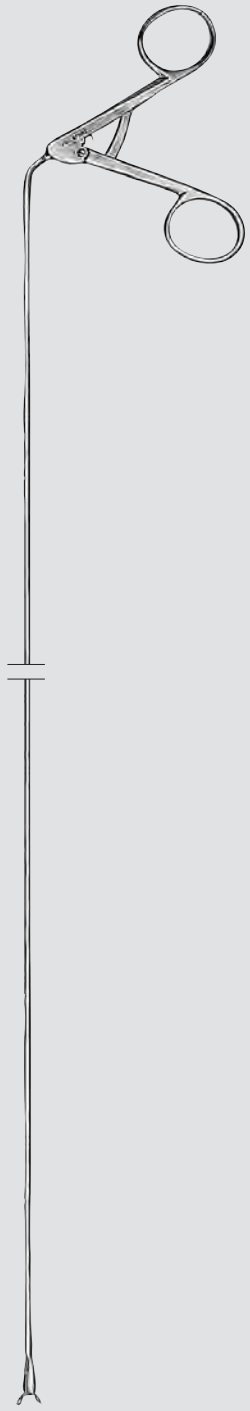
10371 UL
10371 U

5-04[1]

Forceps for Bronchoscopy

double action jaws

KARL STORZ — ENDOSKOPE

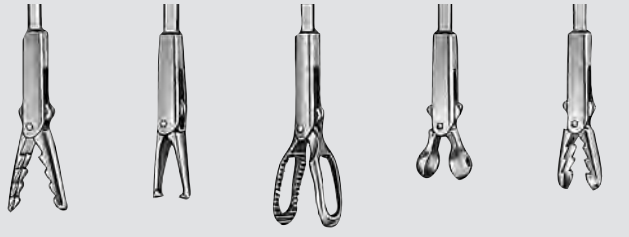


Sheath diameter 1.5 mm, working length 35 cm

10372 HL	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
10372 JL	**Same,** pointed, serrated, for coins and flat foreign bodies
10372 KL	**Same,** for peanuts and soft foreign bodies
10372 LL	**Same,** spoon-shaped, round, for biopsy
10372 UL	**Same,** universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

10372 H	**Forceps,** alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
10372 K	**Same,** for peanuts and soft foreign bodies



10372 HL
10372 H

10372 JL

10372 KL
10372 K

10372 LL

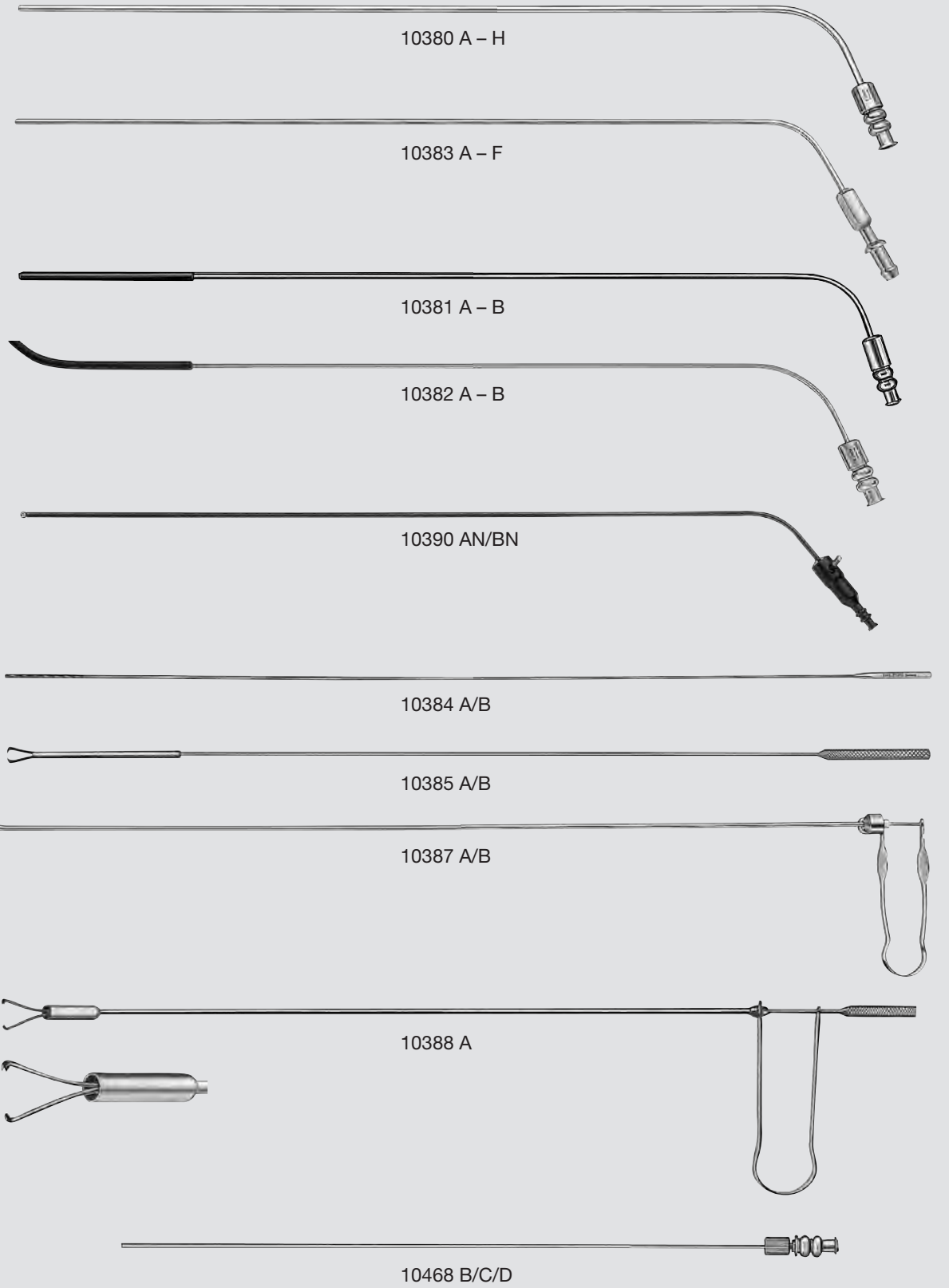
10372 UL

5-04$_1$

Accessories for Bronchoscopy

Suction Tubes, Cotton Carriers, Sponge Holders and Catheters

KARL STORZ — ENDOSKOPE



Description of instruments see page 663

3-11

Working length 50 cm

10380 A	**Suction Tube,** diameter 4 mm
10380 D	**Same,** diameter 2.5 mm
10380 H	**Same,** diameter 5 mm
10383 A	**Suction Tube,** with cut-off hole, diameter 4 mm
10381 A	**Suction Tube,** with rubber tip, straight, diameter 4 mm
10382 A	**Same,** curved
10390 AN	**Coagulating Suction Tube,** insulated, with connector pin for unipolar coagulation, diameter 4 mm
10384 A	**Cotton Applicator**
10385 A	**Sponge Holder**
10387 A	**Sponge Holder,** with spring handle
10388 A	**Sponge Holder,** for sterile smears

Working length 35 cm

10380 AK	**Suction Tube,** diameter 4 mm
10380 B	**Same,** diameter 3 mm
10380 CB	**Same,** diameter 2 mm
10383 B	**Suction Tube,** with cut-off hole, diameter 3 mm
10383 BL	**Same,** diameter 5.5 mm
10381 B	**Suction Tube,** with rubber tip, straight, diameter 2 mm, working length 35 cm
10382 B	**Same,** curved
10390 BN	**Coagulation Suction Tube,** insulated, with connector pin for unipolar coagulation, diameter 3 mm
10384 B	**Cotton Applicator**
10385 B	**Sponge Holder**
10387 B	**Sponge Holder,** with spring handle

Working length 30 cm

10383 DD	**Suction Tube,** with cut-off hole, diameter 2 mm
10383 F	**Same,** diameter 3 mm

Working length 25 cm

10380 C	**Suction Tube,** diameter 2 mm
10383 C	**Suction Tube,** with cut-off hole, diameter 2 mm
10383 CC	**Same,** diameter 1 mm
10383 D	**Same,** diameter 3 mm
10383 E	**Same,** diameter 4 mm

For use through the working channel under control of HOPKINS® telescope:

10468 B	**Suction Catheter,** 7.5 Fr., with Adaptor 10479 B
10468 C	**Same,** 6 Fr., with Adaptor 10479 C
10468 D	**Same,** 4.5 Fr., with Adaptor 10479 F

3-11

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Instruments for aspiration, irrigation and puncture biopsy



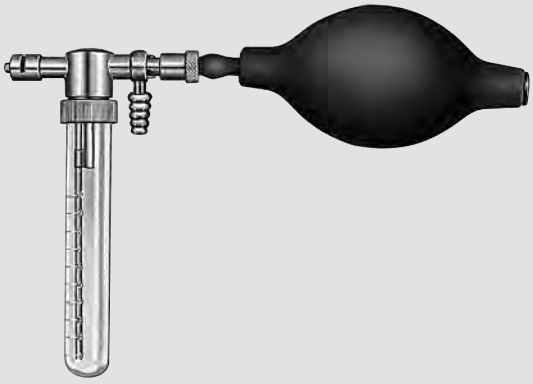
10432 ED



10432 N/T

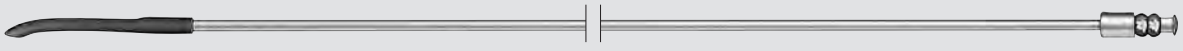


10434 V



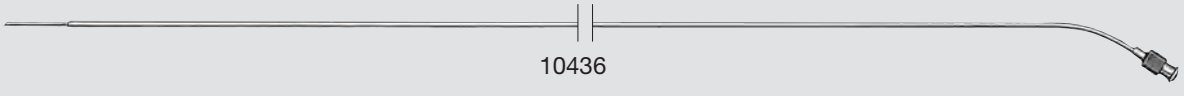
10434

10432 N	**Aspirator,** for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters
10432 T	**Same,** without cut-off hole
10432 ED	**Collection Device,** plastic, for single use, with lid, package of 100, for use with HUZLY Aspirator and Bronchus Irrigator 10434 and Intermediate Ring 10434 Z
10434	HUZLY **Aspirator and Bronchus Irrigator,** with Graduated Container 10455 A and Rubber Bulb 437000. After switching manifold from “Irrigation” to “Suction”, the injected irrigation fluid is immediately withdrawn again together with the bronchial secretion



10434 A/B

10434 A	**Suction Tube,** diameter 4 mm, length 50 cm, for use with HUZLY Aspirator and Bronchus Irrigator 10434
10434 B	**Same,** diameter 3 mm, length 35 cm



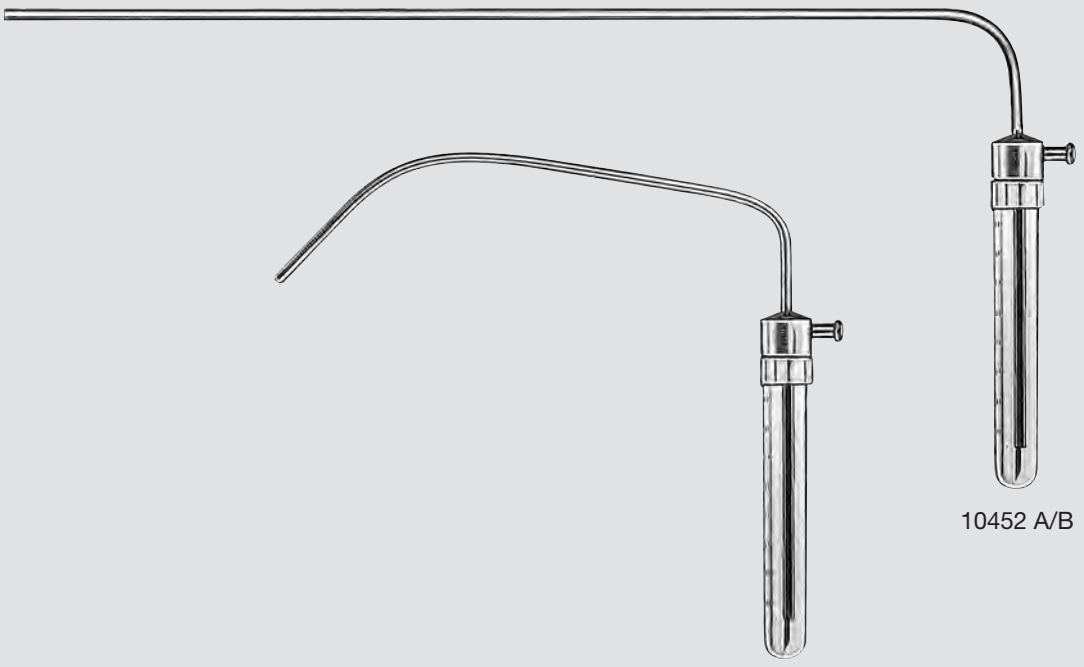
10436



10436	**Aspiration Biopsy Needle,** for transbronchial biopsy, distal straight, diameter 1.6 mm, working length 47 cm
10438	**Same,** distally angled

11-98$_3$

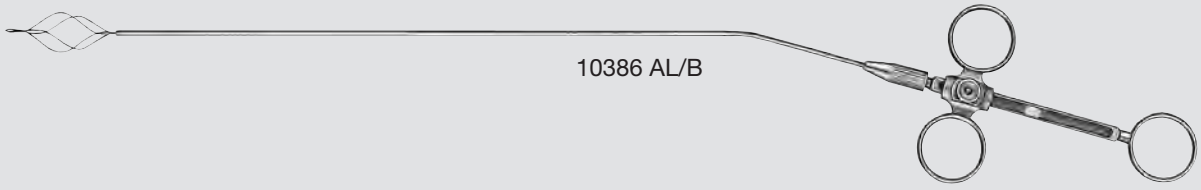
Components/Spare Parts see chapter 16



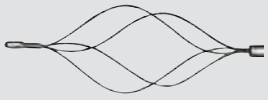
10452 A/B

10454

10452 A	**Bronchial Atomizer,** with Graduated Container 10455 A and Rubber Bulb 437000, length 50 cm
10452 B	**Same,** length 40 cm
10454	**Laryngeal Atomizer,** with Graduated Container 10455 A and Rubber Bulb 40924 H
10455 A	**Graduated Container, autoclavable,** for HUZLY Aspirator and Bronchus Irrigator 10434, Bronchial Atomizer 10452 A/B and Rubber Bulb 10454



10386 AL/B



10386 AL	**Foreign Body Basket,** with ring handle, working length 55 cm
10386 B	**Same,** working length 35 cm

3-11

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Antifog Solution



15006 B



15006 C

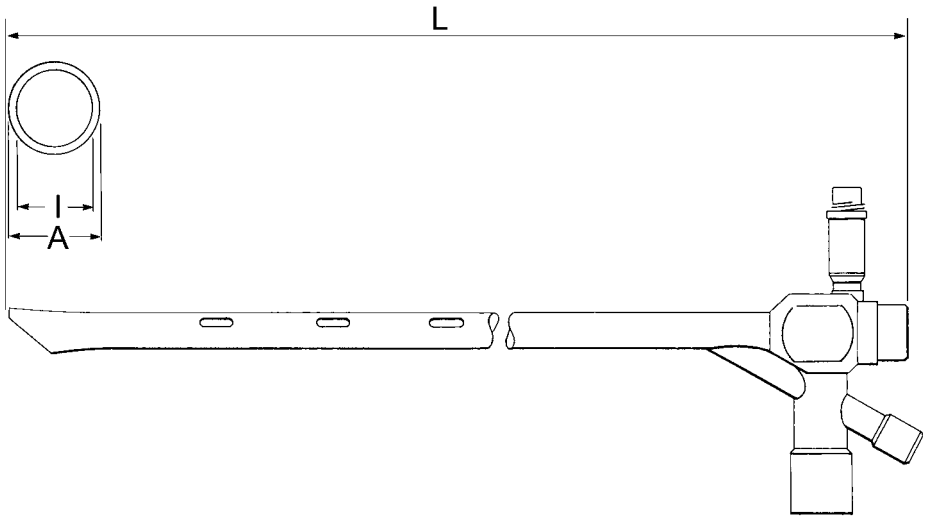


15006 D

15006 B	“ULTRA STOP” **Antifog Solution,** 25 ml, pipette bottle
15006 C	“ULTRA STOP” **Antifog Solution,** 30 ml, sterile, pierce bottle
15006 D	“ULTRA STOP” **Antifog Solution,** 15 ml, atomizer bottle

3-11

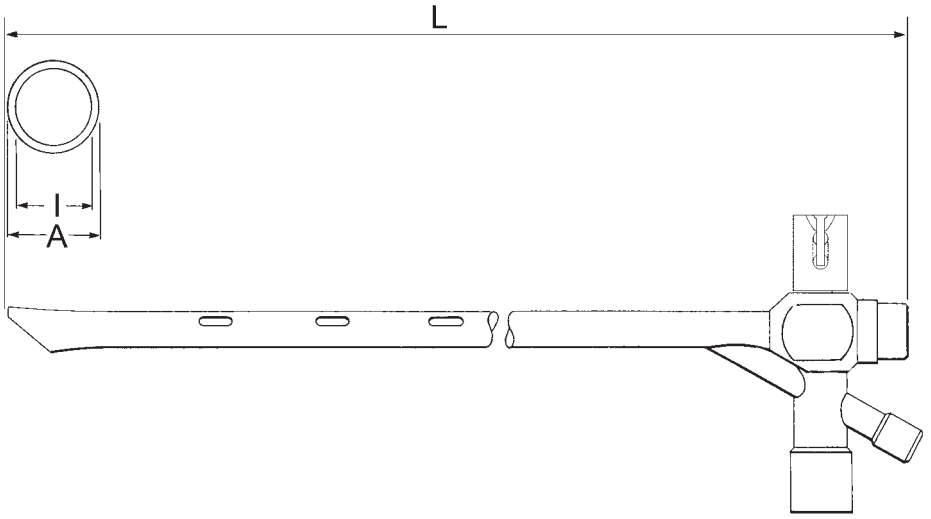
Dimensions
of Universal Bronchoscopes



Art. No.	Size	Total Length – L –	Inner Diameter – I –	Outer Diameter – A –	Telescopes	Optical Forceps
10318 B	8.5	43 cm	10 mm	11 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 BP	8.5	43 cm	10 mm	11 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 C 10318 CP	7.5	43 cm	9 mm	10 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 D 10318 DP	6.5	43 cm	8 mm	9 mm	10320	10352 H, 10352 L, 10352 KF, 10352 U, with 10328 AA, 10328 BA

11-98₂

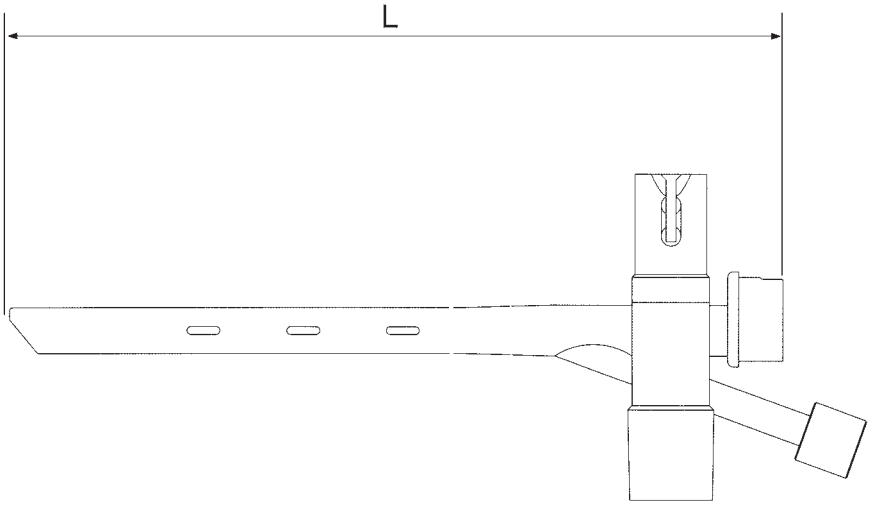
Dimensions of Universal Bronchoscopes



Art. No.	Size	Total Length – L –	Inner Diameter – I –	Outer Diameter – A –	Telescopes	Optical Forceps
10318 G	14	33 cm	13 mm	14 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 GL	14	43 cm	13 mm	14 mm	10320	
10318 ER	11	43 cm	10 mm	11 mm	10320	

11-98₂

DOESEL-HUZLY
Dimensions of Pediatric Bronchoscopes
with proximal illumination



Art. No.	Size	Total Length – L –	Telescopes	Optical Forceps
10339 AL 10339 BL	6 5	40 cm 40 cm	10023 10023	10379 CF, 10379 HF, 10379 KF, 10379 L, with 10023 ABA
10339 A 10339 B 10339 BB 10339 C 10339 G 10339 CD	6 5 4.5 4 3.7 3.5	30 cm 30 cm 30 cm 30 cm 30 cm 30 cm	10324 10020	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 M, 10378 S, 10378 U, 10378 X, with 10324 AA
10339 EEE	3	30 cm	10324 10020	–
10339 CC 10339 GG 10339 DD	4 3.7 3.5	26 cm 26 cm 26 cm	10324 10020	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
10339 EE	3	26 cm	10324 10020	10374 L, 10374 HF
10339 D	3.5	18.5 cm	10018 10020	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
10339 E	3	18.5 cm	10018 10020 10030	10374 L, 10374 HF, with 10030 AA
10339 F	2.5	18.5 cm	10017 10018 10020 10030	10374 L, 10374 HF, with 10030 AA

11-98₂



FLUORESCENCE

ICG Angiography NEW

KARL STORZ — ENDOSKOPE

Intravenously administered dyes that strictly remain within the vascular system have been in increasing use in the past several decades to enable a better assessment of normal and pathological states of various tissues or organs in living organisms. Indocyanine green (ICG) is an important representative of this group and features much better pharmacokinetic properties than conventional markers such as fluorescein; anaphylactic reactions or other intolerance reactions are very rarely observed with ICG. The dye, which is rapidly eliminated via the liver without being metabolized, is commonly used in choroidal circulation diagnostics, but it has also been approved for liver function diagnostics and for assessing various cardiovascular and microvascular situations. The promising results of preliminary animal testing suggested that in vivo ICG angiography may also be suitable for non-invasive assessment of the postoperative perfusion status of free-flap grafts1.

With the novel D-LIGHT P system from KARL STORZ, the applications of ICG angiography have now been expanded to include all endoscopically accessible body regions and a multitude of conceivable new indications. As an example, we will discuss in more detail the ICG fluorescence angiography for the assessment of free-flap grafts in the upper aerodigestive tract. This application has already shown promising results in a feasibility study conducted at our facility. Other promising application areas include the diagnostics of highly vascularized neoplasms in the gastrointestinal tract, the verification of normal blood flow after neurosurgical closure of aneurysms, and the intraoperative perfusion assessment in colorectal anastomoses.

The collected data were analyzed on a PC online and offline, and the results were compared with clinical results. No partial or complete graft loss occurred. Two grafts with limited perfusion caused by arterial anastomotic insufficiency were salvaged by surgical revision. The endoscopic ICG angiographies were simple to perform and easily tolerated. The grafts exhibited delayed accumulation of the dye, but in the end, accumulation was equal in the grafts and in the surroundings. The two grafts that were initially hypoperfused exhibited relative fluorescence peaks (graft compared to surroundings) of 33% and 37%, respectively, but these values were ≥ 64% in all further examinations. On the basis of the collected data, we concluded that endoscopic ICG angiographies generally seem useful in patients with free-flap tissue transfer into the upper aerodigestive tract, since this technique is low in risk, easy to perform, and immediately supplies meaningful information on the perfusion status of the tissue. We concluded that the procedure can be a welcome supplement to the other described screening procedures, particularly in difficult situations (unclear Doppler signals, hard-to-see grafts, and hard-to-assess skin color).

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Klinikum der Universität München, Campus Großhadern
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81377 München, Germany

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As an example, we will now describe one of the above indications in more detail. A feasibility study conducted at the ENT department of the LMU University Medical Center was designed to clarify whether after the intravenous administration of ICG, endoscopic fluorescence angiography is suitable for the early detection of reduced tissue perfusion in free-flap tissue grafts in the upper aerodigestive tract that were transferred by microvascular anastomosis. The study is relevant since there are currently no routine procedures for the objective assessment of perfusion in free tissue flaps, despite the fact that an unidentified postoperative disturbance in perfusion may lead to partial or even complete loss of the graft. The study included 25 patients with such tissue grafts. Three endoscopic ICG angiographies were performed in each patient (intraoperatively, 24 hours after surgery, and 72 hours after surgery, see Figs. 1 – 4).

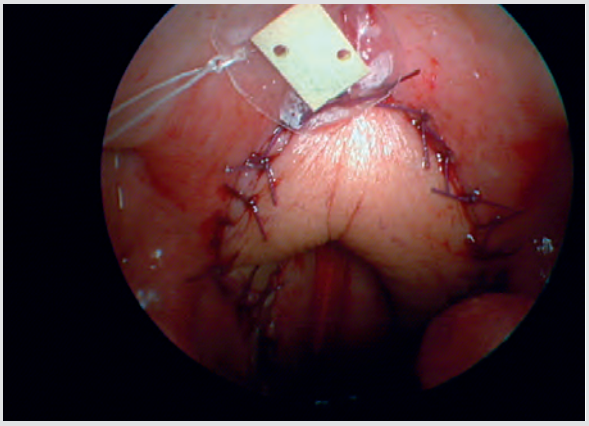


Fig. 1: *White light view*

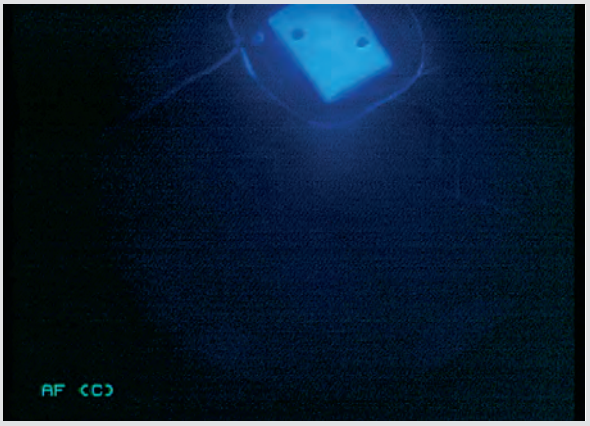


Fig. 2: *Endoscopic ICG perfusion evaluation – intraoperative*

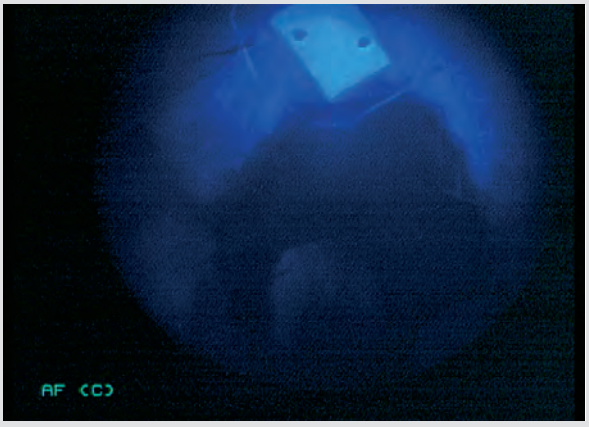


Fig. 3: *Endoscopic ICG perfusion evaluation – 24 h postoperative*

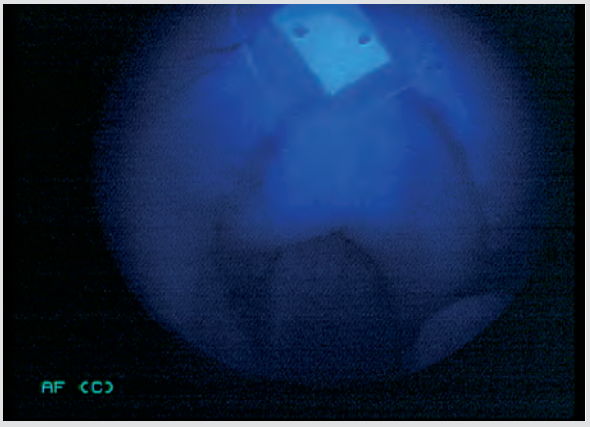


Fig. 4: *Endoscopic ICG perfusion evaluation – 72 h postoperative*

8-11

ICG Angiography NEW

for use with TRICAM® SL II and D-LIGHT P

KARL STORZ — ENDOSKOPE

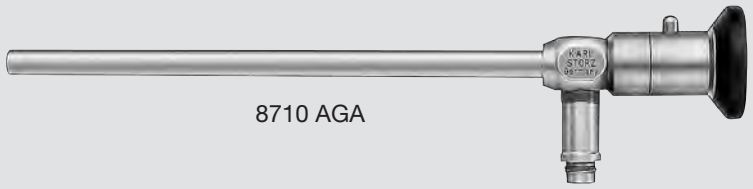
With the D-LIGHT P system as well as other HOPKINS® endoscopes developed specifically for angiography, KARL STORZ offers a compact system for both perfusion assessment and autofluorescence diagnosis. Switching between filters for autofluorescence diagnosis and ICG observation is possible by simply changing the filters in the telescope eyepiece. In combination with the TRICAM® SL II camera control unit, the new system offers outstanding image sharpness as well as detailed representation of the viewed tissue. Visualization of perfusion in ICG modes offers the user new possibilities in surgical anastomosis.

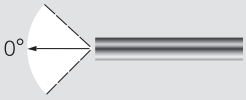


8-11

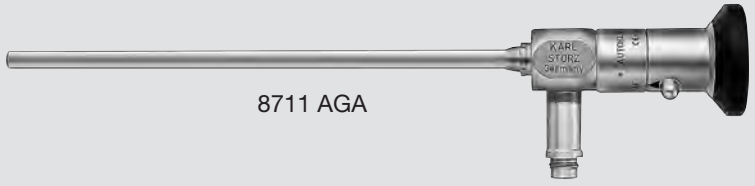
HOPKINS® Telescopes NEW

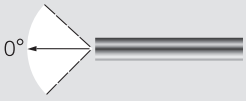
for ICG Angiography





8710 AGA **HOPKINS® Straight Forward Telescope 0°,** for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green





8711 AGA **HOPKINS® Straight Forward Telescope 0°,** enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

Fluid Light Cable



495 FO **Fluid Light Cable,** diameter 3 mm, length 180 cm

495 FP **Same,** length 250 cm

8-11

TRICAM® SL II

Camera Control Unit SCB

KARL STORZ — ENDOSKOPE



20 2230 11U1	**TRICAM® SL II Camera Control Unit SCB**

color systems **PAL/NTSC,** with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin



20 2210 37 / **20** 2211 37

20 2210 37	**PAL**	**TRICAM® PDD**
20 2211 37	**NTSC**	**Three-Chip Camera Head**

color systems **PAL/NTSC,** soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons,
for photodynamic early diagnosis

8-11

Specifications for TRICAM® SL II and TRICAM® PDD Three-Chip Camera Head see pages 684, 699-700
Optional Accessories for TRICAM® SL II and Components/Spare Parts see catalog TELEPRESENCE

D-LIGHT P System SCB NEW

Special Features:

- **Special light source for perfusion diagnosis of tissue and organs with indocyanine green (ICG) or for photodynamic early diagnosis in bronchoscopy**
- **Facility for switching between white light and fluorescence mode after ICG injection**
- **With KARL STORZ Communication Bus (KARL STORZ-SCB)**



NEW **20** 1337 01-1 **Cold Light Fountain D-LIGHT P SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications::

Lamp type	XENON 15 V, 300 Watt
Color temperature	ca. 6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 336 mm
Weight	9.7 kg
Certified to:	IEC 601-1 and UL 544, protection class 1/CF

8-11

Spare Lamps and Spare Lamp Modules for D-LIGHT Systems and Components/Spare Parts
see catalog TELEPRESENCE

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Laryngeal Carcinoma

KARL STORZ — ENDOSKOPE

Autofluorescence endoscopy is a sophisticated, non-invasive method for the detection of precancerous and cancerous changes of the epithelium. It is already used successfully in the early detection and follow-up of bronchial as well as of urothelial cancer [Lam et al. 1993, Nakhosteen et al. 1997, Häussinger et al. 1999]. Autofluoresence endoscocopy can also be applied in the diagnosis of tumors of the upper aerodigestive tract. The method is based on the excitation of tissue-specific fluorescence (autofluorescence) of the mucosa by short-wave blue light of the visible spectrum (375-440 nm). The causes for changes of the fluorescence characteristics are quite complex. Changes in metabolism, reactive changes of the adjacent stroma and the frequently thickening of the epithelium are a few of the possible reasons [Dhingra et al. 1998].

The D-LIGHT/AF System – developed by KARL STORZ in cooperation with various clinical partners – is already used as a combined autofluorescence and fluorescence diagnostic device for the early detection of carcinomas in the bronchial system [Huber et al. 1995], in the bladder [Kriegmaier et al. 1994] and in the oral cavity [Leunig 1996].

The D-LIGHT C/AF System can also be used for the early diagnosis of larynx cancer during microlaryngoscopy in the following examination modes:

- Standard diagnosis
- Autofluorescence diagnosis
- Fluorescence diagnosis (ALA-induced protoporphyrin-IX-fluorescence)

First a microlaryngoscopy is performed in standard diagnosis mode (white light endoscopy). By switching the camera of the D-LIGHT C/AF System into the autofluorescence diagnosis mode, short wave blue light induces a typical green autofluorescence of the laryngeal mucosa. Any change of this typical autofluorescence indicates pathological alterations of the epithelium.

Preliminary studies concerning the laryngeal and hypopharyngeal mucosa demonstrated that particularly cancerous changes are highlighted by the color contrast [Fryen et al. 1997]. These observations were supported by spectroscopic measurements concerning the mucosa of the oral cavity and the pharynx [Dhingra et al. 1996].

Our previous and current studies show that especially the detection and delineation of epithelial dysplasia of higher degree and carcinoma are facilitated by autofluorescence endoscopy compared with standard white light examination [Arens et al. 1999].

The D-LIGHT C/AF System also accommodates fluorescence diagnosis. Induced fluorescence is achieved by prior (local or systematic) application of 5-aminolevulinic acid. The consecutive accumulation of protoporphyrine IX in cancerous mucosa also increases the color contrast [Leunig et al. 1996].

In order to improve preoperative diagnosis, indirect laryngoscopical autofluorescence examinations will be available in the future. Our clinical preliminary studies on 50 patients already showed results comparable to microlaryngoscopic autofluorescence diagnosis.

KARL STORZ offers flexible fiberscopes and rigid telescopes as well as specifically adapted PDD camera systems to be used with the D-LIGHT C/AF System for fluorescence diagnosis of early cancer.

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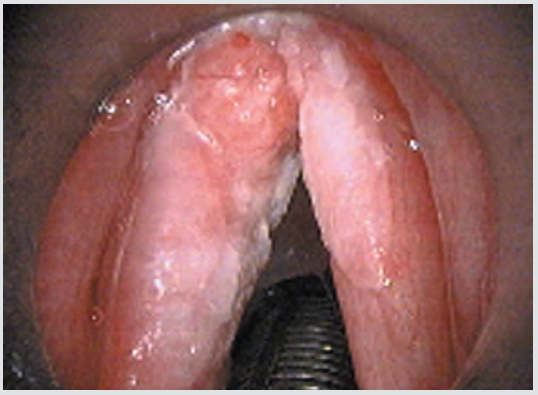
3-11

White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

KARL STORZ — ENDOSKOPE

Diagnosis:

White Light

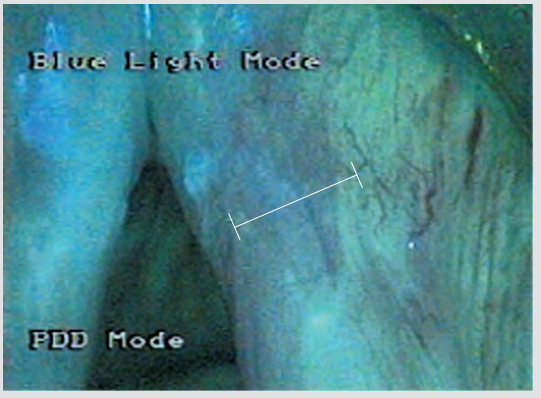


Autofluorescence

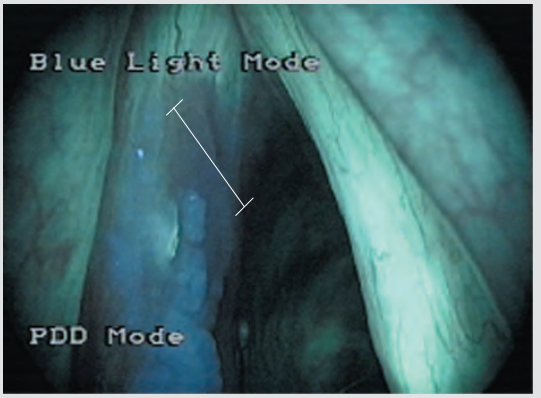


Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord









Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

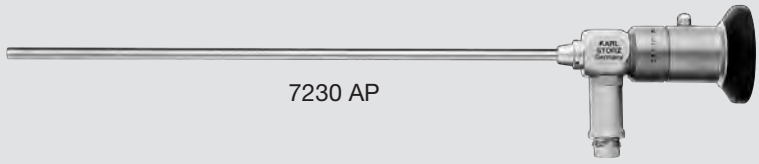
11-03

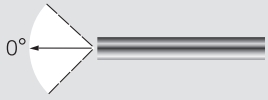
HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
of the Nose and Nasal Sinuses, diameter 4 mm, lenght 18 cm

KARL STORZ — ENDOSKOPE

For Diagnosis and Early Detection of Carcinomas





7230 AP — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP — **HOPKINS® II Forward-Oblique Telescope 45°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cable



495 FO — **Fluid Light Cable,** diameter 3 mm, length 180 cm

495 FP — **Same,** length 250 cm

495 FS — **Fluid Light Cable,** diameter 2 mm, length 220 cm

4-03₁

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Indirect laryngoscopy

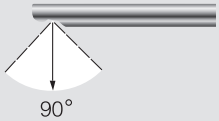




8700 CP **Tele-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated,
color code: yellow

8700 H **Handle,** for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA





8707 DP **Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable,** diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated,
color code: blue

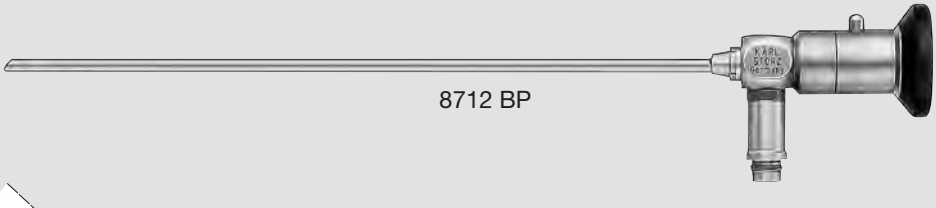
495 FP **Fluid Light Cable,** diameter 3 mm, length 250 cm

11-03

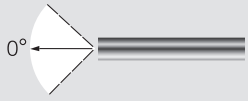
HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Direct laryngoscopy

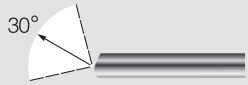
KARL STORZ — ENDOSKOPE



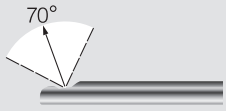
8712 BP



8712 AP — **HOPKINS® II Straight Forward Telescope 0°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

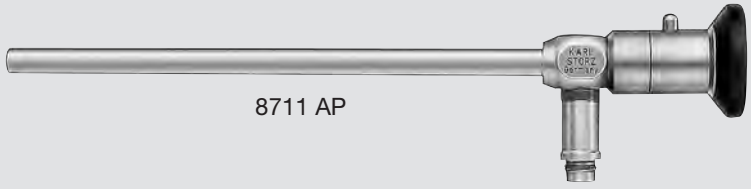


8712 BP — **HOPKINS® II Forward-Oblique Telescope 30°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: red

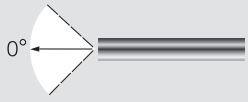


8712 CP — **HOPKINS® II Lateral Telescope 70°,** enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP — **Fluid Light Cable,** diameter 3 mm, length 250 cm

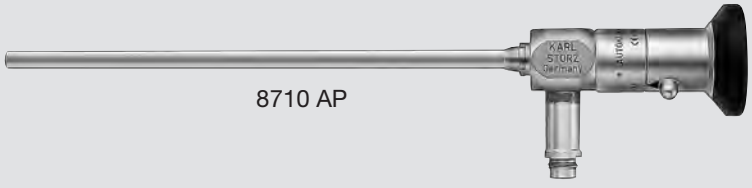


8711 AP

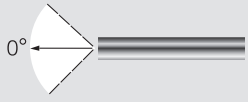


8711 AP — **HOPKINS® Straight Forward Telescope 0°,** for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR — **Fluid Light Cable,** diameter 5 mm, length 250 cm



8710 AP



8710 AP — **HOPKINS® Straight Forward Telescope 0°,** for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable,** fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR — **Fluid Light Cable,** diameter 5 mm, length 250 cm

11-03₂

TRICAM® PDD Three-Chip Camera Head



20 2210 37	**PAL**	**TRICAM® PDD**
20 2211 37	**NTSC**	**Three-Chip Camera Head**

color systems **PAL/NTSC,** soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons,
for photodynamic early diagnosis

Specifications:

TRICAM® Camera Heads	**PDD Three-Chip Camera Head**
PAL	**20** 2210 37
NTSC	**20** 2211 37
Image sensor	3x ½" CCD chip
Pixels Output signal H x V	752 x 582 (PAL) 768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines
Dimensions	37 x 47 mm, length 124 mm
Weight	240 g
Min. sensitivity	F 1.4/3 Lux (standard)
Lens	Integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	Standard eyepiece adaptor



20 2230 11U1 **TRICAM® SL II Camera Control Unit SCB**

color systems **PAL/NTSC,** with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

Video output	- RGBS signal to 4x BNC sockets - S-Video signal to 4-pin Mini-DIN socket (2x) - Composite signal at BNC socket - DV signal to 6-pin DV socket
Input	Keyboard input for character generator and control functions, 6-pin Mini-DIN socket
Control output/input	KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)

Camera Control Unit (CCU)	Dimensions : 305 x 88 x 254 mm (B x H x T)
Weight	2.7 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

11-03₂

Components/Spare Parts see catalog TELEPRESENCE

D-LIGHT C/AF-System SCB

KARL STORZ — ENDOSKOPE

Special Features:

- **For photodynamic early diagnosis in bronchoscopy or photodynamic examination of the bladder**
- **Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)**
- **With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)**



20 1336 01-133 **Cold Light Fountain D-LIGHT C/AF SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm
One-Pedal Footswitch, one-stage, for switch function

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

3-11

Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Bronchial Carcinoma

KARL STORZ — ENDOSKOPE

The KARL STORZ autofluorescence endoscopy procedure provides a new diagnostic method for visualizing malignant and pre-malignant changes as early as possible. Patients only have a real chance of survival if bronchial carcinomas are diagnosed at an early stage. Due to its state-of-the-art technology, the system is compact and economically viable.

The distinguishing feature of this diagnostic system is the ability to switch from standard white light bronchoscopy into the autofluorescence diagnosis mode at any time by means of the special **D-LIGHT C (AF)** system in conjunction with specifically adapted flexible and rigid bronchoscopes. A feature of autofluorescence display is the combination of excitation and observation technique (German and international patents pending). An especially adapted endocamera (TRICAM® SL-PDD), which is 60 times more light-sensitive than a standard endocamera, complements the diagnostic system.

Autofluorescence utilizes a natural optical effect in the tissue. This examination mode does not involve any special pre-operative treatment of patients. Specifically adapted to the fluorescent structures in the submucosa, the **D-LIGHT C (AF)** system induces autofluorescence in the bronchial submucosa. The thickened epithelium near the area with the tumerous changes causes the light to be dimmer in the suspicious tumor area than in the healthy regions of the bronchial mucosa. This thickening of the epithelium, along with biochemical and tissue-specific causes, means that potentially tumorous areas are darker than the surrounding healthy tissue. Autofluorescence creates the colour contrast required to demarcate potentially tumorous areas.

In addition, the so-called **PDD Mode** offers an additional diagnosis mode which, for example, clearly displays blood vessels.

Previous and current studies show that **autofluorescence** is more effective than white light bronchoscopy alone for the early detection of bronchial carcinomas. Therefore more systematic biopsies can also be performed. Areas that appear to be normal under white light can be examined more closely and reveal clinical findings that would otherwise remain undetected or are easily overlooked.

Fluorescence diagnosis combined with our system for the early diagnosis of tumors is also used in other fields of application. In **ENT**[1] laryngeal carcinomas and their extent can be detected at an earlier stage and more accurately than when viewed with pure white light. In the **oral cavity**[2], carcinomas can be diagnosed more precisely by prior topical ALA sensitization as opposed to PDD. Since 1996, PDD has been regularly applied in **Urology**[3] to increase detection sensitivity of cystoscopy for bladder carcinomas in situ. In the field of **Gynecology**[4] the laparoscopic detection rate of endometritis following prior administration of oral ALA has been considerably improved, allowing more optimized treatment. **Neurosurgery**[5] also uses our components for open PDD-assisted glioblastoma resection.

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1) Prof. Dr. Ch. ARENS, Universitätsklinik für Hals-, Nasen- und Ohrenheilkunde Magdeburg

2) Dr. P. SCHLEIER, Klinikk for spesialmedisin, oralkirurgisk seksjon, Stavanger, Norway

3) Prof. Dr. C. Stief, Urologische Klinik, Klinikum Großhadern, Munich

4) PD Dr. E. MALIK, Klinik für Frauenheilkunde und Geburtshilfe, Universität Aachen

5) Prof. Dr. W. Stummer, Neurochirurgische Klinik, Universitätsklinikum Münster

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Video Bronchoscope for Autofluorescence NEW

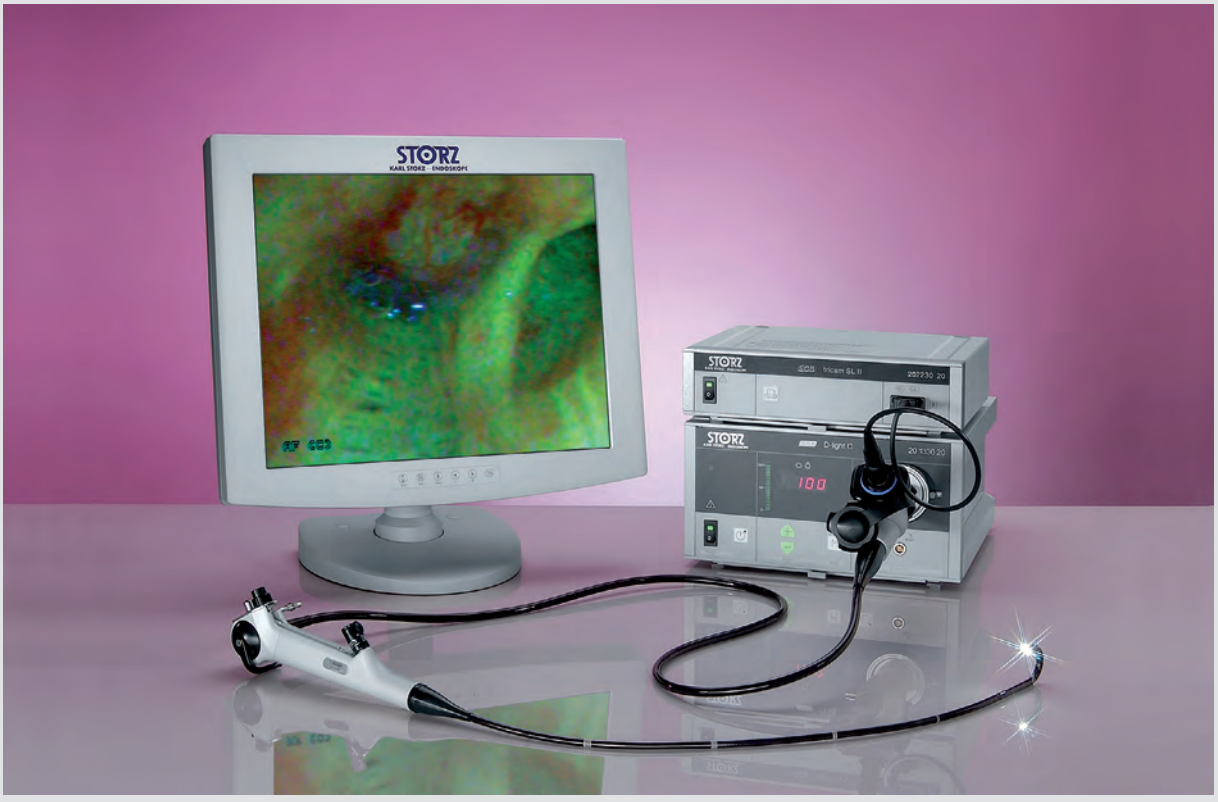
for use with TELECAM SL II FI SCB 20 2130 11U1

KARL STORZ — ENDOSKOPE

KARL STORZ is expanding its line of flexible bronchoscopes with the new video bronchoscope with a distal chip for autofluorescence diagnosis. Users who no longer wish to miss out on the high image quality of videoscopes can now take advantage of the quality products of KARL STORZ in this field, too.

Whereas in the past comparatively heavy fiber optic endoscopes with a separate camera head were used in video endoscopy, this system delivers excellent color fidelity in both the white light and autofluorescence modes. An integrated button on the handle of the video bronchoscope allows rapid switching between the white light and the blue light modes.

In combination with the TELECAM SL II FI SCB control unit and the D-LIGHT C/AF, the new video bronchoscope for autofluorescence diagnosis offers outstanding image sharpness as well as excellent brightness and representation of detail.



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Video Bronchoscope for Autofluorescence NEW

for use with TELECAM SL II FI SCB 20 213 011U1

KARL STORZ — ENDOSKOPE



11900 AP/AN

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis,** color system **PAL,** including mounted Suction Unit 11900 AE, for use with TELECAM SL II FI SCB **20** 2130 11U1

Working channel:	2.3 mm
Direction of view:	0°
Angle of view:	120°
Deflection up/down:	180°/100°
Depth of view:	3 – 50 mm
Working length:	61 cm
Outer diameter:	6.2 mm

11900 AN **Same,** color system **NTSC**

Following accessories included:

27677 KV	**Case**
20 2130 70	**Video Connecting Cable**
13272	**Mouth Piece**
11001 KL	**Biopsy Forceps,** spoon-shaped, round, flexible, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX	**Leakage Tester,** with blower and manometer
11025 XE	**Pressure Compensation Cap,** for ventilation during gas sterilization
27651 B	**Cleaning Brush,** flexible, length 100 cm
13991 SS	**Irrigation Tube,** for working channel
27656 B	**Instrument Oil,** 50 ml
13990 SFN	**Protective Film**

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Optional accessories see pages 694-696

TELECAM SL II FI SCB NEW

for use with Video Bronchoscope for Autofluorescence

KARL STORZ — ENDOSKOPE



20 2130 11U1	**TELECAM SL II FI Camera Control Unit SCB**

color systems **PAL/NTSC,** with **KARL STORZ-SCB** and integrated digital Image Processing Module, suitable for fluorescence applications, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable,** for controlling peripheral units

SCB Connecting Cable

Keyboard, with US English character set

Specifications:

Video output	- RGB signal to 15-pin HD D-Sub socket - Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x)
Input	Keyboard input for title generator and camera functions to 5-pin DIN socket
Control output	3.5 mm stereo jack plug (ACC 1, ACC 2, SCB)

Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Weight	2.7 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class 1/BF

The system can be operated with KARL STORZ-SCB units.
Optional accessories for TELECAM SL II FI SCB and Components/Spare Parts see catalog TELEPRESENCE

3-11

D-LIGHT C/AF-System SCB

for use with Video Bronchoscope for Autofluorescence

KARL STORZ — ENDOSKOPE



20 1336 01-133 **Cold Light Fountain D-LIGHT C/AF SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm
One-Pedal Footswitch, one-stage, for switch function

Accessories (required in conjunction with KARL STORZ video bronchoscopes)

487 KVE **Adaptor,** for KARL STORZ light sources for use with KARL STORZ video bronchoscopes

Optional accessories

495 KS **Adaptor,** for standard KARL STORZ fiber optic light cables (not 495 NCS) in conjunction with adaptor for KARL STORZ Video Bronchoscope 487 VE

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Certified to:	IEC 601-1 and UL 544, protection class 1/CF

3-11

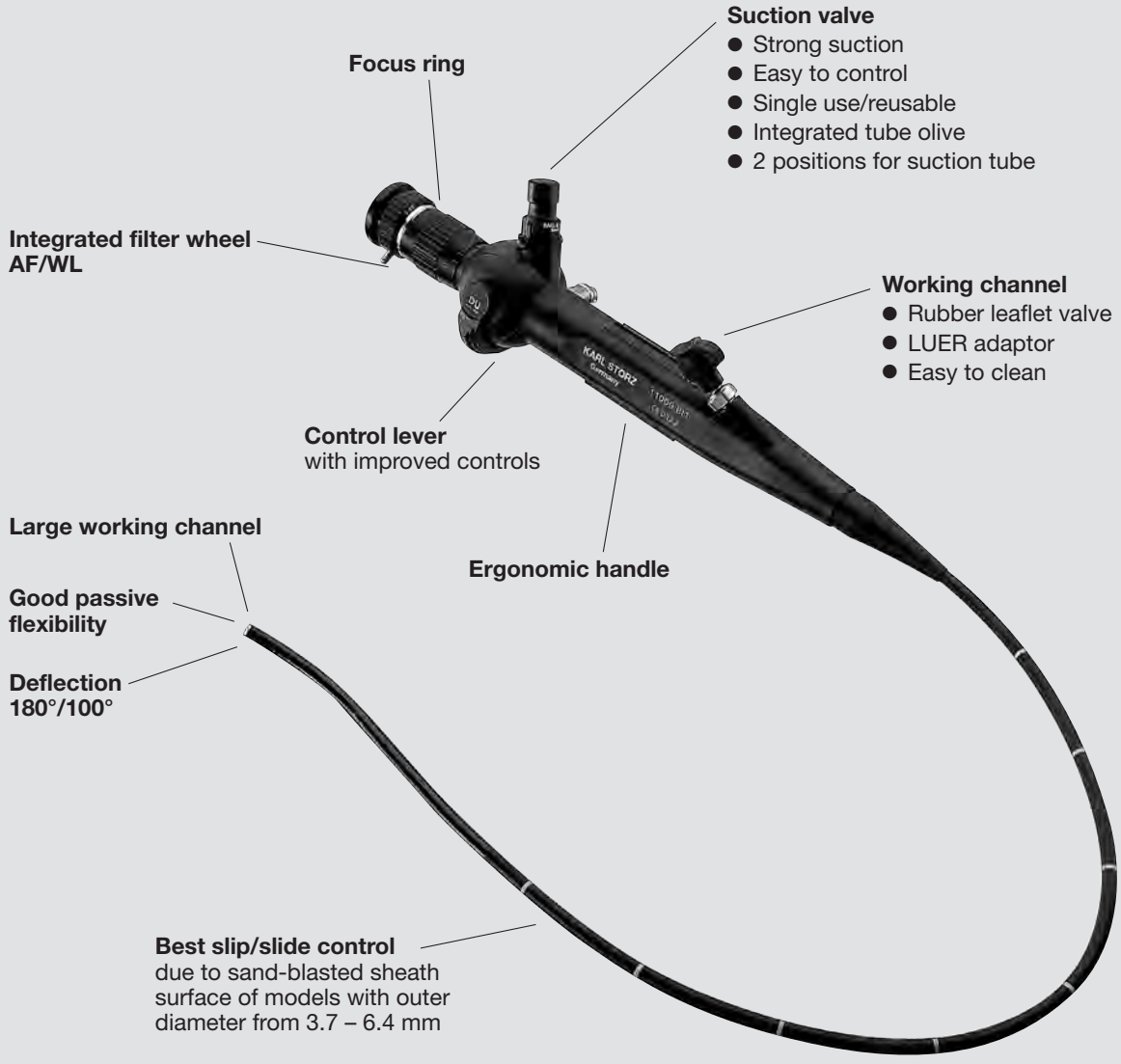
Optional accessories for Cold Light Fountain D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

Broncho-Fiberscopes for Autofluorescence

KARL STORZ — ENDOSKOPE

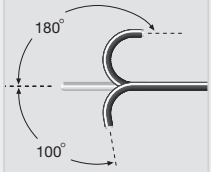
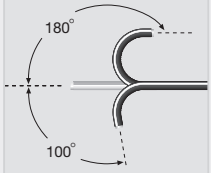
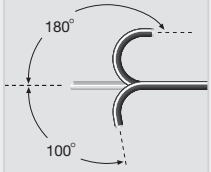
Special Features:

- **Large viewing angle and movable distal tip for better orientation**
- **Working channel for the use of operating instruments**
- **Functional: simultaneous suction and administration of medication via removable suction valve**
- **Waterproof, fully immersible for cleaning and disinfection**
- **Simple leakage test takes only a few minutes and requires no additional accessories**
- **Sterilizable via EtO and FO gas, Steris® and Sterrad®**
- **Recommended for use with KARL STORZ ENDOVISION® TRICAM® SL II PDD SCB System**
- **Exceptional optical quality of both lens and fiber optic image transmission bundle**
- **Resistant construction and robust mechanical components ensure long life of the instrument**



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Broncho-Fiberscopes for Autofluorescence

Broncho-Fiberscopes (AF)	Art-No.		Deflection up/down	Direction of view	Angle of view	Working length	
6.4 mm x 54 cm Broncho-Fiberscope	11004 BI			0°	110°	54 cm	
5.6 mm x 54 cm Broncho-Fiberscope	11009 BI			0°	110°	54 cm	
5 mm x 54 cm Broncho-Fiberscope	11001 BI			0°	110°	54 cm	



Fluid Light Cable for use with Broncho-Fiberscopes for Autofluorescence and Photodynamic Diagnosis (PDD)

495 FO **Fluid Light Cable,** diameter 3 mm, length 180 cm
495 FP **Fluid Light Cable,** diameter 3 mm, length 250 cm



39402 A **Plastic Container,** for gas or plasma sterilization and storage

11-98₂

	Total length	Working channel inner diameter	Distal tip outer diameter	Accessories (included in delivery)						
				Case	Pressure Comp. Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
	82 cm	2.8 mm	6.4 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	82 cm	2.6 mm	5.5 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	82 cm	2.3 mm	5.2 mm	27677 BB	11025 E	13242 XL	13272	27651 B	11001 KL	11002 KS

Accessories included in delivery:



27677 BB **Case**

11025 E **Pressure Compensation Cap,** for ventilation during gas sterilization

13242 XL **Leakage Tester,** with bulb and manometer

13272 **Mouthpiece**



27651 B **Cleaning Brush,** flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm

27651 C **Cleaning Brush,** round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm



11001 KL **Biopsy Forceps,** flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm



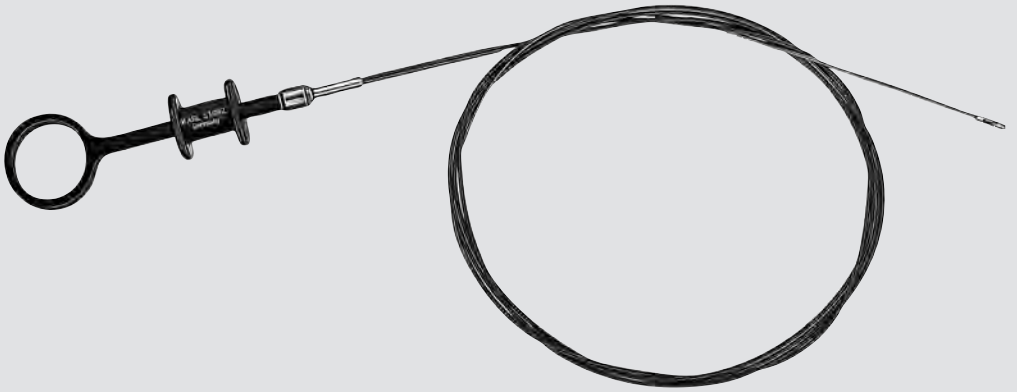
11002 KS **Grasping Forceps,** flexible, alligator jaws, double action jaws, diameter 1.8 mm, working length 120 cm

11-98$_2$

Optional Accessories

for Flexible Bronchoscopes

KARL STORZ — ENDOSKOPE



			Dia.	Length	for use with: 11004 BI	11009 BI	11001 BI	11900 AP/AN
	11002 KT	**Grasping Forceps,** alligator jaws, round, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KT		2.3 mm		●	●	–	–
	11002 KU	**Grasping Forceps,** spoon-shaped, serrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KU		2.3 mm		●	●	–	–
	11002 KX	**Grasping Forceps,** alligator jaws, serrated, 3 x 4 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KX		2.3 mm		●	●	–	–
	11002 KZ	**Grasping Forceps,** serrated, 1 x 2 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KZ		2.3 mm		●	●	–	–
	11001 KM	**Biopsy Forceps,** spoon-shaped, round, with spike, fenestrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13250 KM		2.3 mm		●	●	–	–
	13250 KN	**Biopsy Forceps,** spoon-shaped, oval, fenestrated, flexible, double action jaws	2.3 mm	120 cm	●	●	–	–

11-98₂

Further Accessories for Flexible Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

Optional Accessories

for Flexible Bronchoscopes

KARL STORZ — ENDOSKOPE

			for use with			
			11004 BI	11009 BI	11001 BI	11900 AP
	10770 B	**Button Electrode,** flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm	●	●	●	●
	11161 KE	**Coagulation Electrode,** unipolar, flexible, diameter 1 mm, length 110 cm	●	●	●	●
	11007 BS	**Brush,** for cytology, outer diameter 1.7 mm, working length 80 cm	●	●	●	●
	11007 E	**Brush,** package of 10	●	●	●	●
	11008	**Suction Catheter,** 4.5 Fr., length 100 cm, with Adaptor 10479 F	●	●	●	●
	11008 E	**Catheter,** 5 Fr., without adaptor	●	●	●	–
	10479 F	**Adaptor,** for Suction Catheter 10468 D, 10478 D and 11008 E	●	●	●	–

5-06

Optional Accessories

for Flexible Bronchoscopes

KARL STORZ — ENDOSKOPE

			for use with		
			11004 BI	11009 BI	11001 BI
	11301 CA	**Leaflet Valve,** for single use, package of 20	●	●	●
	11301 CB	**Suction Valve,** reusable	●	●	●
	11301 CD	**Irrigation Adaptor,** for machine cleaning, reusable, for fiberscopes	●	●	●
	11301 CE	**Suction Valve,** for single use, package of 20	●	●	●
	11301 BM	**Adaptor,** for leakage test, for Belimed washer-disinfectors	●	●	●
	11301 FF2	**Adaptor for MIELE Cleaning Machines,** with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●
	11301 GG2	**Adaptor,** for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors	●	●	●
	11301 HH	**Adaptor for BHT Cleaning Machines,** for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●
	11301 KK2	**Adaptor,** for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately!	●	●	●

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HOPKINS® Telescopes

for Autofluorescence during Rigid Bronschoscopy

KARL STORZ — ENDOSKOPE

10320 AP – DP



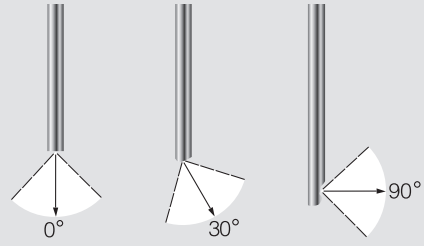
10320 AP **HOPKINS® Straight Forward Telescope 0°,** diameter 5.5 mm, length 50 cm, **autoclavable,** for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: green

10320 BP **HOPKINS® Forward-Oblique Telescope 30°,** diameter 5.5 mm, length 50 cm, **autoclavable,** for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: red

10320 DP **HOPKINS® Lateral Telescope 90°,** diameter 5.5 mm, length 50 cm, **autoclavable,** for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: blue

Fluid Light Cable for use with HOPKINS® Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD):

495 FS **Fluid Light Cable,** diameter 2 mm, length 220 cm



10320 AP 10320 BP 10320 DP

11-98

HOPKINS® Telescopes for use with Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

TRICAM® SL II

Three-Chip Camera System, Color Systems PAL/NTSC, Digital Imaging Processor

TRICAM® SL II is the endoscopic video platform offered by KARL STORZ for all endoscopically-assisted applications and video display of the highest image quality.

Thanks to its ergonomic, compact design, this CCD sensor technology separates the optical image of the 3-CCD image sensor into the three primary colors by means of a specially coated color prism.

Each individual CCD sensor receives a specific color with the maximum line representation.

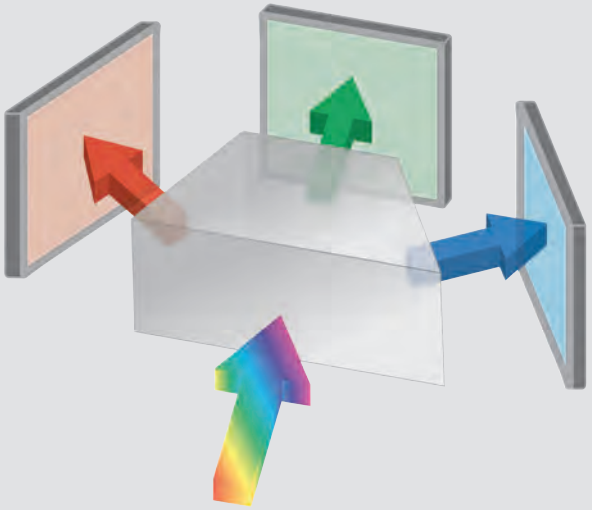
The separate processing of the primary color information red, green, and blue means that all colors can be optimally captured with this process. Furthermore, the use of all three CCD sensors offers up to three times more detail enhancement.

TRICAM® SL II offers a high degree of optoelectronic accuracy and precision.

Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

The user has several pre-assigned digital-optimization-filters at his disposal for adjustment to rigid, semi-rigid and flexible endoscopes at the touch of a button.

Video outputs such as Digital-Video (DV) and all analog signal variations are an integral feature of **TRICAM® SL II** standard equipment.



Special Features:

- **Best image quality and display due to 3-CCD sensor chip technology**
- **Enhanced signal quality through Digital Signal Processing (contrast and filter enhancement for rigid, semirigid and flexible endoscopes)**
- **Optimal image size display, regardless of the telescope used, thanks to patented Parfocal Optical Zoom Lens**
- **Simplified operation reduces camera movement to, e.g., prevent damage to or soiling of the lens**
- **Consistent illumination due to the auto-exposure system ensures seamless transitions between images, regardless of imaging area or available light**
- **Functionality at the touch of a button with easy-to-program operating elements via intuitive control of all functions in the sterile area**
- **Parameters of the OR equipment used, light sources, etc. can be displayed and controlled (KARL STORZ Communication Bus) on the monitor**
- **Digital video output (DV) for digital recording**
- **Digital zoom 1 – 2x can be adjusted to 4 levels**
- **“Freeze Frame” function can be activated via camera head buttons or an external footswitch**
- **Fluorescence imaging mode available**

5-06

TRICAM® SL II

Camera Control Unit SCB

KARL STORZ — ENDOSKOPE



20 2230 11U1 **TRICAM® SL II Camera Control Unit SCB**

color systems **PAL/NTSC,** with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable,** for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

Video output	- Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x) - RGBS signal to 4x BNC sockets - DV signal to 6-pin DV socket
Input	Keyboard input for character generator and control functions, 6-pin Mini-DIN socket
Control output/input	KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)

Camera Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Weight	2.7 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

5-06

Optional Accessories for TRICAM® SL II and Components/Spare Parts see catalog TELEPRESENCE

TRICAM® SL II

Camera Heads

For use with TRICAM® SL II Camera Control Unit SCB 20 2230 11U1

TRICAM® PDD Three-Chip Pendulum Camera Head



20 2210 39 / **20** 2211 39

20 2210 39	**PAL**	**TRICAM® PDD Three-Chip Pendulum Camera Head**
20 2211 39	**NTSC**	

color systems **PAL/NTSC,** soakable, gas-sterilizable,
with pendulum system and fixed focus, f = 14 mm,
2 freely programmable camera head buttons,
for photodynamic early diagnosis

TRICAM® PDD Three-Chip Camera Head



20 2210 37 / **20** 2211 37

20 2210 37	**PAL**	**TRICAM® PDD Three-Chip Camera Head**
20 2211 37	**NTSC**	

color systems **PAL/NTSC,** soakable, gas-sterilizable,
with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x),
2 freely programmable camera head buttons,
for photodynamic early diagnosis

Specifications:

TRICAM® Camera Heads	PDD Three-Chip Pendulum Camera Head	PDD Three-Chip Camera Head
PAL	**20** 2210 39	**20** 2210 37
NTSC	**20** 2211 39	**20** 2211 37
Image sensor	3x ¼" CCD chip	3x ½" CCD chip
Pixels Output signal H x V	752 x 582 (PAL) 768 x 494 (NTSC)	752 x 582 (PAL) 768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines	min. 750 lines
Dimensions	Diameter 29-37 mm, length 117 mm	37 x 47 mm, length 124 mm
Weight	170 g	240 g
Min. sensitivity	F 1.4/3 Lux (standard)	F 1.4/3 Lux (standard)
Lens	Pendulum system, fixed focus, f = 14 mm	Integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	Standard eyepiece adaptor	Standard eyepiece adaptor

Optional accessories for TRICAM® SL II see catalog TELEPRESENCE

5-06

D-LIGHT C/AF-System SCB

Special Features:

- **For photodynamic early diagnosis in the upper airways**
- **Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)**
- **With integrated KARL STORZ Communication Bus (KARL STORZ-SCB®)**



20 1336 01-133 **Cold Light Fountain D-LIGHT C/AF SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm
One-Pedal Footswitch, one-stage, for switch function

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

2-06

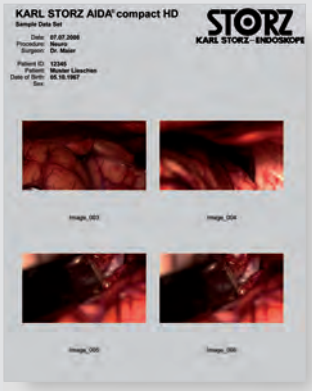
Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

The Compact Documentation Solution

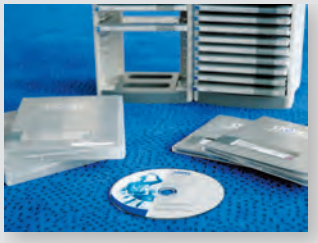
The new KARL STORZ AIDA® compact NEO advanced/standard system combines all the required functions for integrated and precise documentation in a single system. All functions are centrally controlled via touch screen, footswitch, camera head buttons or voice control directly from the sterile area.



AIDA compact NEO advanced/ standard: *Review screen*



AIDA compact NEO advanced/ standard: *Automatic creation of standard reports*



AIDA compact NEO advanced/ standard: *Efficient archiving*

Data Acquisition

AIDA compact NEO advanced/standard records still images, video sequences (in HD quality) and spoken comments of findings and intraoperative procedures directly from the sterile area. Recordings are activated via touch screen, footswitch or camera head buttons.

Live display of camera images on the touch screen enables immediate monitoring and selection of the recorded data.

Flexible Review

Before final archiving, the saved data can be viewed or listened to on the review screen. Data no longer required can be simply deleted.

Individual images, video and audio sequences can be renamed and given more meaningful names. A pre-defined selection list with keywords simplifies and speeds up data entry.

A voice entry of the case report can even be recorded while viewing video and image files.

Automated Data Archiving

Once a treatment is completed, AIDA compact NEO advanced/standard automatically stores the data on a DVD, creates a standard report and prints it as an overview, if required.

Multipatient

Efficient data archiving is assured as the data of several patients can be saved on a DVD.

8-11

Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

KARL STORZ — ENDOSKOPE

Special Features:

- Digital storage of still images with a resolution of 1920 x 1080 in both systems (advanced/standard) possible. Video sequences to 1080p with advanced and to 720p with standard variant possible (via HD-SDI)
- Audio files can be archived in both systems
- DICOM/HL7 interface package included
- Printing from review area (individual images with meta-data)
- DVD burning, Blu-ray reading capabilities
- AIDA Restore Configuration supports simple import and export of system settings
- Reference screen with new QuickView (favorites folder)
- Video settings (e.g. contrast, …) separate for all channels
- Adaptation options for GUI
- Compressed DICOM
- Supports OR1™ Checklist V1.1
- Enhanced support of 15" monitors with OR1™ checklist installation
- Scalable watermark
- High-quality function and switching of image/video quality without additional settings
- Sterile, ergonomic operation via touch screen, camera head buttons and/or footswitch
- Data export to DVD, CD-ROM or USB flash drive, multi-session and multi-patient
- Network storage possible
- Automatic creation of standard reports
- Systems for use in the OR area certified according to EN 60601-1
- Compatible with KARL STORZ Communication Bus (SCB) and KARL STORZ OR1™ AV NEO
- KARL STORZ AIDA® compact advanced/ standard as an attractive, digital alternative to video printers, video recorders and dictating machines



8-11

20 0409 13-EN* **KARL STORZ AIDA® compact NEO advanced**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

including:

KARL STORZ AIDA® control NEO, with integrated DVD/CD writer, Blu-ray reading possible

AIDA compact HD Frame Grabber Card

PS/2 Compact Keyboard, US English, with cover

KARL STORZ AIDA® compact NEO Software, with voice control and software protection

KARL STORZ USB Flash Drive

2x **Connecting Cables,** for controlling peripheral units

BNC/BNC Video Cable

BNC Connecting Cable

DVI-D Connecting Cable

Mains Cord

Connecting Cable, Mini-DIN plug to BNC socket

20 0409 12-EN* **KARL STORZ AIDA® compact NEO standard**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

Specifications:

Video Systems	- PAL, NTSC
Signal Inputs	- S-Video (Y/C) - Composite - RGB (only standard) - SD-SDI (only standard) - HD-SDI (only standard) - DVI-D (only advanced)
Image Formats	- JPG - BMP

Video Formats	- MPEG2
Audio Formats	- WAV
Storage Media	- DVD+R - DVD+RW - DVD-R - DVD-RW - CD-R - CD-RW - USB Stick

8-11

* **Available in the following languages:** EN, ES, FR, IT, PT, PL, RU, DK, SE, JP, CN
Components/Spare Parts see catalog KARL STORZ OR1 NEO®

KARL STORZ TFT Flat Screens



W29519 N



W29519 NB

KARL STORZ TFT Flat Screens	19"
Desktop with Pedestal	W29519 N
Wall-mounted with VESA 100-adaption	W29519 NB
Inputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
SOG	●
DVI-D	●
Fiber Optic	–
VGA	●
Outputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
DVI-D	●
Signal format displays:	
4:3	●
5:4	●
16:9	●
16:10	●
Picture-in-Picture (PiP, HD – SD)	●
Picture-in-Picture (PiP, HD – HD)	●
PAL/NTSC compatible	●
Picture-Perfect Technology	●

Accessories included in delivery:

400 A **Mains Cord,** length 300 cm
9419 PS **Power Supply**
9526 SF **Pedestal,** for 19", 24" and 26" monitors

8-11

KARL STORZ TFT Flat Screens

W29519 N **19" KARL STORZ TFT Flat Screen**

desktop with pedestal, color systems **PAL/NTSC,** max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

W29519 NB **19" KARL STORZ TFT Flat Screen**

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC,** max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

including:

Power Supply
Mains Cord
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
DVI-D Connecting Cable
SVGA Monitor Cable

Specifications:

KARL STORZ TFT Flat Screens	**19"**
Desktop with Pedestal	W29519 N
Wall-mounted with VESA 100-adaption	W29519 NB
Brightness	300 cd/m²
Max. viewing angle	178° vertical
Pixel distance	0.294 mm
Reaction time	10-16 ms
Contrast ratio	600:1
Mount	100 mm VESA
Weight	6.8 kg
Rated power	65 Watt
Operating conditions	0-38 °C
Storage	-20-60 °C
Relative humidity	5-85%, non-condensing
Dimensions w x h x d	465 x 400 x 98 mm
Power supply	100-240 VAC
Certified to	EN 60601-1, UL 60601-1, MDD 93/42/EEC, protection class IPX 1

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Components/Spare Parts see catalog KARL STORZ OR1 NEO®

KARL STORZ Touch Screens



20 0904 03/**20** 0904 06



20 0904 01/**20** 0904 05

KARL STORZ Touch Screens	**15"**	**19"**
Desktop with Pedestal	**20** 0904 03	**20** 0904 06
Wall-mounted with VESA 75/100-adaption	**20** 0904 01	**20** 0904 05
Inputs:		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	–	●
Screen Diagonal:		
38 cm	●	–
48 cm	–	●
Max. Screen Resolution:		
1024 x 768	●	–
1280 x 1024	–	●

Specifications:

KARL STORZ Touch Screens	**15"**	**19"**
Desktop with Pedestal	**20** 0904 03	**20** 0904 06
Wall-mounted with VESA 75/100-adaption	**20** 0904 01	**20** 0904 05
Monitor type	TFT-LCD monitor with active matrix	TFT-LCD monitor with active matrix
Display	304 x 228 mm	376 x 301 mm
Touch Screen	AccuTouch	AccuTouch
Colors	16 million with pixel shading	16 million with pixel shading
Brightness	250 cd/m² (typ.)	250 cd/m² (typ.)
Viewing angle	Horizontal 80° Vertical 80°	Horizontal 85° Vertical 85°
Contrast ratio	400:1 (typ.)	500:1 (typ.)
Monitor reaction time	25 ms	25 ms
Pixel distance	0.30 mm	0.29 mm
Input signal level	0.7 Vpp	0.7 Vpp
Rated power	48 VA	90 VA
Connections	- D-Sub - VGA-compatible analog-RGBS	- D-Sub - VGA-compatible analog-RGBS
Power supply	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Certified tot	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1
Mechanical values	- Weight: max. 6.5 kg - Dimensions w x h x d: 375 x 356 x 205 mm	- Weight: max. 10.5 kg - Dimensions w x h x d: 432 x 467 x 251 mm

KARL STORZ Touch Screens

20 0904 01 **15" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Adaptor, VESA 75

Signal cables: RS 232, SVGA

20 0904 03 **15" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

20 0904 05 **19" KARL STORZ Touch Screen**

wall-mounted, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Signal cables: RS 232, SVGA

20 0904 06 **19" KARL STORZ Touch Screen**

desktop, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

Accessories:

20 0904 81	**Mains Adaptor,** for 15" KARL STORZ Touch Screen **20** 0903 31, with 300 cm low voltage cable
20 0904 85	**Mains Adaptor,** for 19" KARL STORZ Touch Screen **20** 0904 37, with 300 cm low voltage cable
20 0903 86	**Touch Pen,** for KARL STORZ touch screens
20 0904 86	**Pedestal,** for 15" KARL STORZ Touch Screen **20** 0903 31
20 0904 87	**Pedestal,** for 19" KARL STORZ Touch Screen **20** 0903 37 and **20** 0904 37
041165-20*	**Sterile Cover,** for 15" KARL STORZ touch screen
041265-20*	**Sterile Cover,** for 19" KARL STORZ touch screen

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see catalog KARL STORZ OR1 NEO®

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Accessories

for AIDA compact NEO advanced/standard

KARL STORZ — ENDOSKOPE

	29005 SZ	**Monitor Swivel Arm,** height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS
	**20** 0402 73	**Bar Code Scanner**
	9370 TQ	**Color Ink Jet Printer,** with horizontal paper feed, incl. mains cord, USB printer cable, length 200 cm, black and color ink jet cartridges
	9371 LA	**Color Laser Printer,** including mains cord, USB printer cable length 200 cm
	**20** 0902 34	**PS/2 Compact Keyboard,** German version, with cover
	20 0402 32	**PS/2 Silicone Keyboard,** German version, washable, disinfectable
	**20** 0104 30	**Two-Pedal Footswitch,** two-stage

8-11

	20 0402 72	**SVGA Connecting Cable,** length 600 cm
	20 0400 73	**RS 232 Connecting Cable,** length 600 cm
	20 0400 74	**Printer Cable,** length 300 cm
	20 0401 74	**Printer Cable,** length 500 cm
	20 0103 70	**Potential Equalization Cable,** length 200 cm
	20 0102 70	**Potential Equalization Cable,** length 500 cm
	W20475	**OR1™ Network Isolator,** for galvanic decoupling of units with RJ45 network connection (100 Mbit)
	20 0900 34	**Ethernet Network Board,** 10/100 Mbit/s
	20 0900 37	**Fiber Optic Network Board,** 100 Base-FX (SC)
	20 0901 71	**Fiber Optic Network Cable,** LWL-patch cable with ST and SC plugs, configured, length 100 cm
	20 0900 36	**Media Converter,** converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply
	20 0400 76	**RJ45 Network Cable,** length 500 cm
	20 2040 80	**CD-R,** 700 MB, package of 10
	20 2040 81	**DVD+RW,** 4.7 GB, package of 5
	20 2040 82	**DVD+R,** 4.7 GB, package of 10
	20 2040 83	**DVD-R,** 4.7 GB, package of 10

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NAVIGATION

Navigation Panel Unit (NPU)

Straightforward and Efficient Support for ENT Surgery

KARL STORZ — ENDOSKOPE

Similar to car navigation technology, surgery also requires a tool that provides safe and secure orientation towards a destination by means of a patient roadmap, uncomplicated surgical routes and a clear indication of danger zones. The system should always enable the surgeon to determine the exact location of an instrument in a patient's body. The KARL STORZ Navigation Panel Unit provides the surgeon with this ability.

Special Features:

- **Mobile, space-saving system with intuitive handling**
- **Easy assembly and flexible use in the OR**
- **Durable, robust and autoclavable navigation instruments**
- **Reduced costs through autoclavable accessories and shorter surgery time**



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Navigation Panel Unit (NPU)

Straightforward and Efficient Support for ENT Surgery



40 8000 01

40 8000 01 **KARL STORZ Navigation System NPU,**
positioning aid for navigated ENT surgery,
including:
Panel PC, including installed ENT navigation software and passive touch pen
Optical Mouse
Camera
Electronic Box
Docking Adaptor, for panel PC,
with CD-RW/DVD-ROM
Stand, mobile, with locking knob for camera
Data Cable
VGA Cable
Camera Cable
Headband with Plastic Holder
Patient Tracker II, with glass marker spheres, **autoclavable**
Case, for panel PC, camera, electronic box, mobile stand and connecting cables
Navigation Probe, with glass marker spheres, **autoclavable**
Mains Cord

Components/Spare Parts see chapter 16

8-11

Probe, Patient Tracker and Headband

for Navigation System (NPU)



40 8001 10

40 8001 10 **Navigation Probe,** with 3 fixed glass marker spheres, autoclavable, dimensions: 295 x 15 x 30 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 87

40 8000 87 **Patient Tracker II,** with verification adaptor, 3 incorporated glass marker spheres and fixation screw, **autoclavable,** dimensions: 80 x 60 x 12 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 80

40 8000 80 **Headband,** for navigation system NPU, standard size, with plastic holder for Patient Tracker II **40** 8000 87

The autoclavable Probe **40** 800110 with glass spheres for position tracking is a versatile, basic instrument for navigation.

The more user-friendly, autoclavable Patient Tracker II **40** 8000 87 ensures position tracking and orientation of the patient.

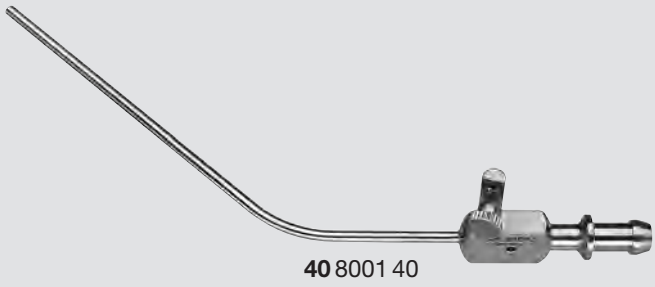
8-11

Navigation Suction Tubes NEW

angular, curved downwards, curved upwards

KARL STORZ — ENDOSKOPE

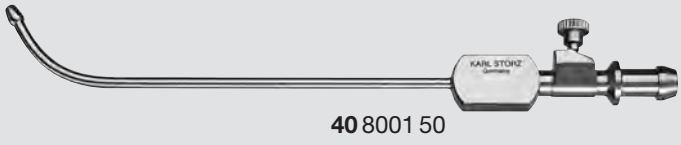
Outer diameter 3 mm, working length 9 cm



40 8001 40

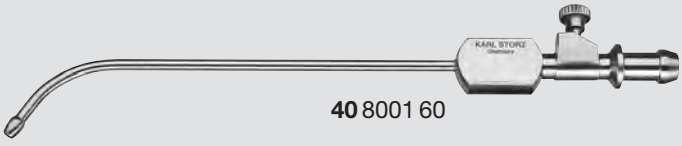
40 8001 40 FRAZIER **Navigated Suction Tube,** angular, for right-handed use, with cut-off hole, 9 Fr., working length 10 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

Outer diameter 3 mm, working length 11 cm



40 8001 50

40 8001 50 v. EICKEN **Navigated Suction Tube,** curved upwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8001 60

40 8001 60 v. EICKEN **Navigated Suction Tube,** curved downwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

8-11

Instrument Tracker NEW

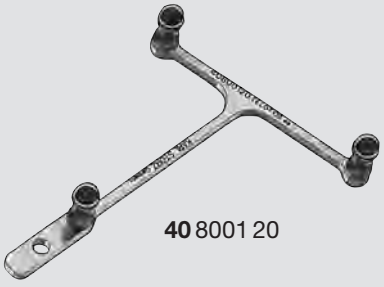
for Navigation System (NPU)

KARL STORZ — ENDOSKOPE

The autoclavable instrument tracker is designed for the navigation of various instruments. The small size of the instrument tracker reduces the risk of collision and ensures very good instrument maneuvrability.

Special Features:

- **User-friendly handling thanks to optimized, miniaturized design**
- **Can be used for various navigation instruments**



40 8001 20

40 8001 20 **Tool Tracker,** for navigated instruments, with 3 fix-mounted glass spheres, **autoclavable,** dimensions: 70 x 50 x 14 mm, for use with navigated instruments **40** 8001 4x, **40** 8001 5x, **40** 8001 6x and **40** 8001 7x

8-11

Suction Tube Verification Adaptor NEW

KARL STORZ — ENDOSKOPE

The autoclavable verification adaptor enables easy and secure verification testing of various navigation instruments. The adaptor is used to verify the proper functioning of navigation suction tubes prior to use.



40 8001 30

40 8001 30 **Suction Tube Verification Adaptor, autoclavable,** dimensions: 35 x 4 x 14 mm, for use with Patient Tracker **40** 8000 86

8-11

Please note: This adaptor is not required for Patient Tracker II **40** 8000 87

Wire Tray for Navigation Probe and Patient Tracker NEW

KARL STORZ — ENDOSKOPE

The wire tray ensures hygienic and secure sterilization, cleaning and storage of standard navigation instrument sets.



39502 NAV1

39502 NAV1 **Wire Tray for Cleaning, Sterilization and Storage** of one navigation probe and one patient tracker, with silicone knob mat, fixation system and lid, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

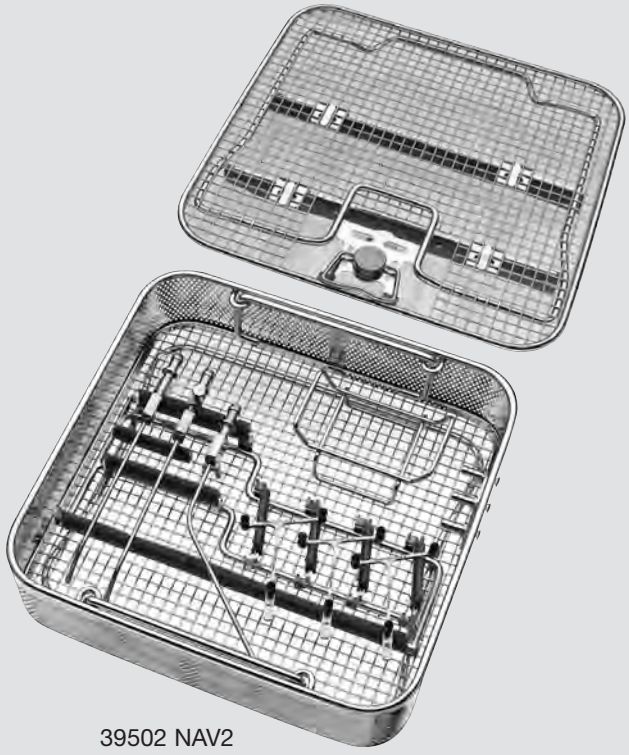
8-11

Please note: The instruments displayed are not included in the rack.

Wire Tray for Suction Tubes and Instrument Tracker

NEW

The wire tray ensures hygienic and secure sterilization, cleaning and storage of the suction tube sets.



39502 NAV2

39502 NAV2 **Wire Tray for Cleaning, Sterilization and Storage** of three suction tubes and three instrument trackers, with silicone knob mat and small parts basket, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

8-11

Please note: The instruments displayed are not included in the rack.

DrillCut-X® II N Shaver Handpiece NEW

Special Features:

- **Powerful motor**
- **Absolutely silent running**
- **Enhanced ergonomics**
- **Reduced-weight design**
- **Oscillation mode for shaver blades, max. 10,000 rpm**
- **Rotation mode for sinus shavers, max. 12,000 rpm**
- **Straight suction channel and integrated irrigation**
- **Variable handle allows connection with various handpieces and enables more comfortable work**
- **Easy hygienic processing, suitable for use in washer and autoclavable at 134° C**
- **Quick coupling mechanism facilitates more rapid exchange of working inserts**
- **Proven DrillCut-X® blade portfolios can be used**
- **Adaptation possibilities for Shaver Tracker 40 8001 22**
- **Allows shaver navigation when used with NPU 40 8000 01**



40 7120 55

40 7120 55 **DrillCut-X® II N Shaver Handpiece,** with adaption possibilities for Shaver Tracker **40** 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 8001 22

40 8001 22 **Shaver Tracker, autoclavable,** with glass marker spheres incorporated, for use with DrillCut-X® II N Shaver Handpiece **40** 7120 55 and navigation systems NPU **40** 8000 01 and NBU **40** 8100 01

8-11

Handle NEW
for DrillCut-X® II Shaver Handpiece

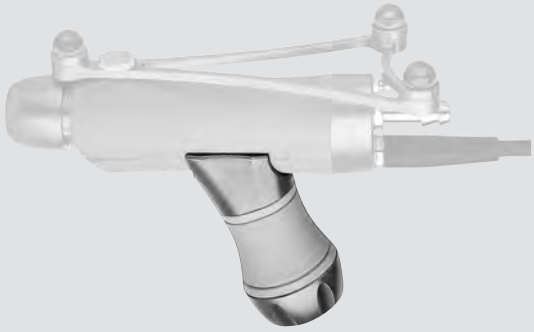
for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

KARL STORZ — ENDOSKOPE

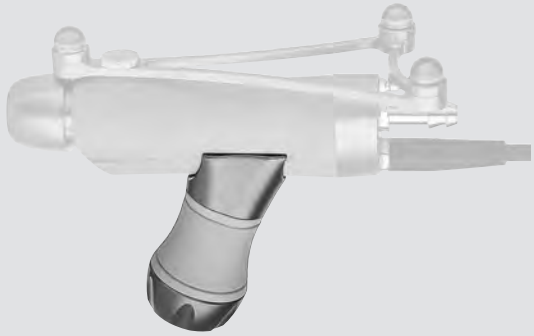
Special Features:

- **Ergonomic design**
- **Ultralight construction**
- **Easy handle control allows individual adjustment**
- **Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces**
- **Easy fixation via rotary lock**
- **Easy hygienic processing, suitable for use in washer and autoclavable at 134 °C**

Positioning Handle 40 7120 90



40 7120 90



40 7120 90

40 7120 90 **Handle,** adjustable, for use with DrillCut-X® II **40** 7120 50 and DrillCut-X® II N **40** 7120 55

8-11



MICROSCOPY

HD Imaging with Operating Microscopes

Direct Adaption





Direct adaption to the VARIO operating microscope from Carl Zeiss Meditec

With the operating microscope the surgeon always has a perfect view of the operating field. Assistants, OR nurses and students, however, often experience poor video presentation, especially if FULL HD visualization is not available. KARL STORZ offers solutions from one source that equip operating microscopes from leading manufacturers with advanced FULL HD technology. To achieve optimal results, all components in the video chain – from the camera system to the monitor – must be of the highest quality.

The most straightforward and professional connection between the camera and the microscope is the so-called direct adaption.

Here the H3-M COVIEW® microscope camera and the corresponding QUINTUS® TV adaptor are directly connected to the microscope via the C-MOUNT connection.

8-09

HD Imaging with Operating Microscopes

System Overview

KARL STORZ — ENDOSKOPE

Camera and Camera Control Unit



IMAGE 1 HUB™ HD Camera Control Unit

+



H3-M HD Microscope Camera Head

TV Adaptors



QUINTUS® TV Adaptor,
for CARL ZEISS MEDITEC

or



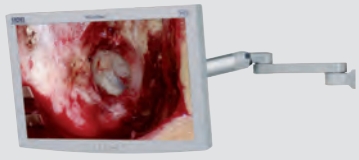
QUINTUS® TV Adaptor,
for LEICA Microsystems

or



QUINTUS® TV Adaptor,
for Möller Wedel

HD Monitor and ZeroWire



FULL HD WIDEVIEW Monitor
see catalog TELEPRESENCE

+



ZeroWire Video Transmission Set
see catalog TELEPRESENCE

Documentation System



KARL STORZ AIDA® compact NEO
advanced/standard (optional)
see catalog TELEPRESENCE

Accessories

Equipment Cart 29005 LAP
see catalog TELEPRESENCE

4-11

IMAGE 1 HD

H3-M HD Microscope Camera Head

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U1xx and IMAGE1 HD Camera Control Unit SCB 22202011U1xx



22 2200 54-3 / **22** 2201 54-3

NEW **22** 2200 54-3 | **50 Hz 60 Hz** | **IMAGE1 H3-M COVIEW® Three-Chip FULL HD Microscope Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color systems **PAL/NTSC**

NEW **22** 2201 54-3 | **60 Hz** | **IMAGE1 H3-M Three-Chip FULL HD Microscope Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color system **NTSC**

Specifications:

IMAGE1 FULL HD Camera Heads	H3-M
50 Hz	**22** 2200 54-3 (PAL)
60 Hz	**22** 2201 54-3 (NTSC)
Image sensor	3x ⅓" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x l)	45 x 47 x 87 mm
Weight	260 g
Optical interface	C-MOUNT connection
Min. sensitivity	F 1.9/1.4 Lux
Grip mechanism	C-MOUNT connection
Cable	detachable
Cable length	900 cm

IMAGE 1 HUB™ HD Camera Control Unit

IMAGE 1 HD



222010 11U1 **IMAGE 1 HUB™ HD Camera Control Unit SCB**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and integrated digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
Special RGBS Connecting Cable
2x **Connecting Cable,** for controlling peripheral units
DVI-D Connecting Cable
SCB Connecting Cable
Keyboard, with US English character set

222010 11U102 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI Module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord
BNC/BNC Video Cable
S-Video (Y/C) Connecting Cable
Special RGBS Connecting Cable
2x **Connecting Cables,** for controlling peripheral units
DVI-D Connecting Cable
SCB Connecting Cable
Keyboard, with US English character set

4-11

Components/Spare Parts see catalog TELEPRESENCE

IMAGE 1 HUB™ HD Camera Control Unit

IMAGE 1 HD



NEW **22** 2010 11U112 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module) and SDI (Serial Digital Interface) modules, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Stick,** 4 GB



NEW **22** 2020 11U110 **IMAGE1 HD Camera Control Unit SCB, with ICM module**

for use with IMAGE1 FULL HD three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module), KARL STORZ-SCB** and digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US-English character set

2x **KARL STORZ USB Stick,** 4 GB

Components/Spare Parts see catalog TELEPRESENCE

4-11

QUINTUS® – High-Performance TV Adaptor for Operating Microscopes

Unleash the full performance of your operating microscope from CARL ZEISS MEDITEC – with FULL HD imaging solutions from KARL STORZ

The new QUINTUS® TV adaptor is the perfect interface between the surgical microscope and the KARL STORZ H3-M FULL HD microscope camera head.

The innovative features of QUINTUS® are easy to use, making it one of the most flexible TV adaptors on the market.



QUINTUS® stands for 5 main features:

- A **rotating C-MOUNT connection** at the QUINTUS® TV adaptor allows immediate adaption of the camera orientation during mounting.
- The **focus control** makes it possible to easily achieve parfocality (perfectly sharp camera and microscope images).
- The **iris control** provides convenient and optimal adjustment of the depth of field.
- **Pan (X) function** enables adjustment of the horizontal position of the camera image.
- **Tilt (Y) function** enables adjustment of the vertical position of the camera image. The pan and tilt functions helps the surgeon to adjust the position of the camera image according to his individual needs.

Focal length of the QUINTUS® TV adaptor:

The QUINTUS® TV adaptor for H3-M HD microscope camera head is available in 2 focal lengths (45 and 55 mm). This provides an optimal FULL HD image in 16:9.

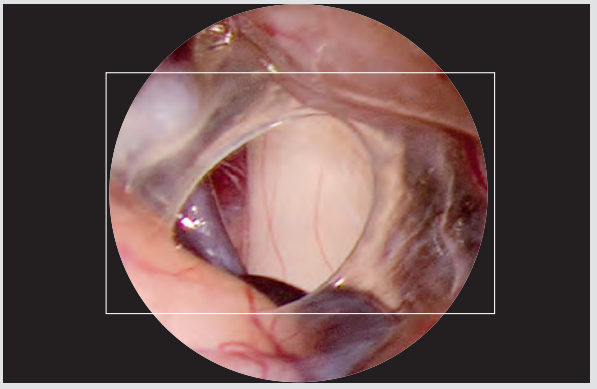


Fig. 1: *Camera image detail with a focal length of 45 mm*

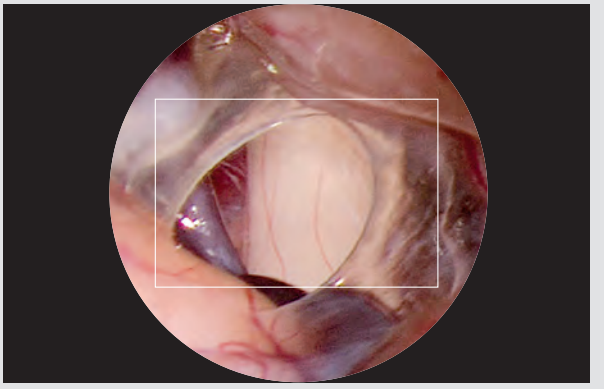


Fig. 2: *Camera image detail with a focal length of 55 mm*

4-11

QUINTUS® TV Adaptor



20 9230 45/**20** 9230 55

20 9230 45 **QUINTUS® Z 45 TV Adaptor,** for CARL ZEISS MEDITEC operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9230 55 **QUINTUS® Z 55 TV Adaptor,** for CARL ZEISS MEDITEC operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as IMAGE1 S1 and S3 camera heads



20 9330 45/**20** 9330 55

20 9330 45 **QUINTUS® L 45 TV Adaptor,** for LEICA Microsystems operating microscopes, f = 45 mm, recommended for IMAGE1 H3-M/H3-M COVIEW® HD microscope camera heads

20 9330 55 **QUINTUS® L 55 TV Adaptor,** for LEICA Microsystems operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9530 45/**20** 9530 55

20 9530 45 **QUINTUS® M 45 TV Adaptor,** for Möller-Wedel operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9530 55 **QUINTUS® M 55 TV Adaptor,** for Möller-Wedel operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9250 00

20 9250 00 **Iris,** for ZEISS Pentero®, iris as a necessary extension between the QUINTUS® TV adaptor and the operating microscope ZEISS Pentero®



301513

301513 **Optical Beamsplitter 50/50,** for use with ZEISS operating microscope or colposcope

Note: Optical beamsplitters for other operating microscopes (i.e. LEICA or Möller-Wedel) are available directly from the manufacturers.

4-11

VITOM® 25 NEW

Visualization System for Microsurgery

KARL STORZ — ENDOSKOPE



8-11

VITOM® 25 NEW

Visualization System for Microsurgery

KARL STORZ — ENDOSKOPE

VITOM® 25 from KARL STORZ represents a revolutionary and innovative way of displaying open surgery with minimal access in a high quality and ergonomic manner.

VITOM® 25 is based on the renowned HOPKINS® II rod lens system from KARL STORZ. With the help of a holding system, the VITOM® 25 is placed at a working distance of 25 – 75 cm above the surgical field. This gives the surgeon more room to work.

The small size of the VITOM® 25 reduces space requirements in the OR to a minimum. Due to its slim and compact design, the surgical field is not obstructed and even long instruments can be used with ease. The VITOM® 25 system provides excellent depth of field, optimal magnification, good contrast and excellent color reproduction, which are the requisites for FULL HD display and recording.

The first-class enhanced imaging can be observed via a FULL HD monitor from a convenient distance by the surgeon, the assistant as well as the entire OR team.

The VITOM® 25 system has proven to be an excellent alternative to OR illumination cameras, loupes or operating microscopes in various surgical disciplines.

The VITOM® 25 is equipped with an integrated illumination, which can be supplemented with an optional illuminator.

The system allows further use of existing units. A FULL HD endoscope imaging solution from KARL STORZ can also be used with the VITOM® 25 exoscope.

The VITOM® 25 system offers:

- **Excellent FULL HD image quality**
- **Great depth of view**
- **Large working distance**
- **Ergonomic monitor work**
- **Compact design requiring minimal space in the OR**
- **Use of existing KARL STORZ FULL HD endoscopy system possible**



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany

8-11

Exoscope and Illumination



VITOM® 25 Exoscope and
Light Cable

+



VITOM® 25 Illuminator and
Y-Light Cable (optional)

+



XENON 300 SCB
Light Source

Camera and Display



IMAGE 1 HUB™ HD
Camera Control Unit

+



IMAGE1 H3-Z Three-Chip
HD Camera Head

+



IMAGE 1 HUB™
HD Monitor

Holding System



ENDOCRANE®
Piezoelectric Holding Arm

or



POINT SETTER®
Pneumatic Holding Arm

or



Mechanical Holding Arm
see chapter 4, pages 203-204

Documentation System



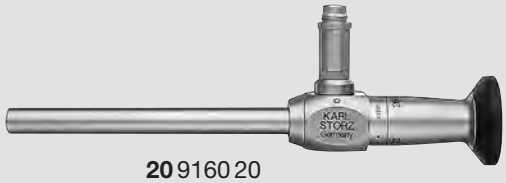
KARL STORZ AIDA® compact NEO advanced
see catalog TELEPRESENCE

Accessories

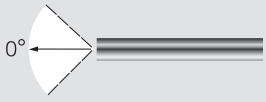
Equipment Cart 29005 LAP
see catalog TELEPRESENCE

4-11

Diameter 10 mm, length 11 cm

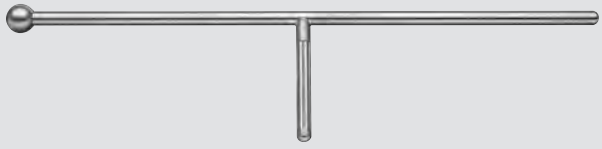


20 9160 20



20 9160 20 **VITOM® 25 Telescope 0°,** VITOM® 25 HOPKINS® II straight forward telescope 0°, working distance 25 – 75 cm, diameter 10 mm, length 11 cm, **autoclavable,** fiber optic light transmission incorporated, color code: green

Fiber Optic Light Cables 495 NE and NVB recommended



20 9180 20

20 9180 20 **VITOM® 25 Distance Rod,** length 25 cm

optional:



20 9170 00

20 9170 00 **VITOM® 25 Illuminator,** with 2 adjustable lenses and holding device for VITOM® 25 telescopes, **autoclavable,** for use with VITOM® 25 telescopes (**20** 9160 20 and equivalent models) and Y-Fiber Optic Light Cable 495 UV, not suitable for use with VITOM® telescopes of the 2nd generation with integrated illuminator

Y-Fiber Optic Light Cable 495 UV recommended

4-11

VITOM® 25 NEW

Specifications

KARL STORZ — ENDOSKOPE

Working distance:	25 – 60 cm	
Depth of view at working distance of:	**25 cm**	**50 cm**
Depth of view:	**approx. 3.5 cm**	**approx. 7 cm**
Field of view at working distance of:	25 cm	50 cm
H3-Z camera zoom 1x	5 cm	10 cm
H3-Z camera zoom 2x	3.5 cm	7 cm
Reproduction scale at working distance of:	25 cm	50 cm
26" Monitor:		
H3-Z camera zoom 1x	approx. 8x	approx. 4x
H3-Z camera zoom 2x	approx. 16x	approx. 8x
42" Monitor:		
H3-Z camera zoom 1x	approx. 14x	approx. 7x
H3-Z camera zoom 2x	approx. 28x	approx. 14x
52" Monitor:		
H3-Z camera zoom 1x	approx. 17x	approx. 8x
H3-Z camera zoom 2x	approx. 34x	approx. 16x



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany

8-11



495 NE



495 NVB

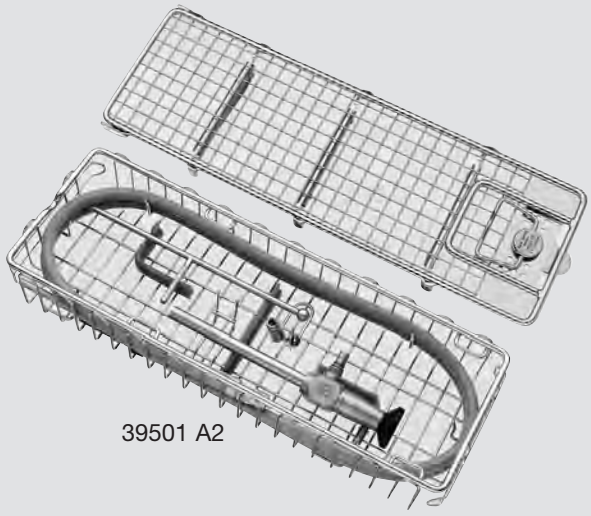


495 NVC

495 NE **Fiber Optic Light Cable,**
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 NVC **Fiber Optic Light Cable,** with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light cable, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 352 x 125 x 54 mm, for rigid endoscopes up to diameter 10 mm and working length 20 cm

8-11

Cold Light Fountain XENON 300 SCB

Special Features:

- **Extremely high light intensity due to 300 Watt Xenon lamp**
- **Built-in antifog pump**
- **With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)**



20 1331 01-1	**Cold Light Fountain XENON 300 SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
Silicone Tubing Set, length 250 cm
SCB Connecting Cable, length 100 cm

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	7.96 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

4-11

Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON and Components/Spare Parts
see catalog TELEPRESENCE

IMAGE 1 HUB™ HD – HD Camera Control Unit

Special Features:

- **Maximum resolution and the consistent use of the 16:9 aspect ratio guarantee FULL HD.**
- **Endoscopic and microscopic camera systems are equipped with three CCD chips that support the 16:9 input format as well as capturing images with a resolution of 1920 x 1080 pixels.**

The benefits of FULL HD (High Definition) for medical applications are:

- **Up to 6 times higher input resolution of the camera delivers more detail and depth of focus.**
- **Using 16:9 format during image acquisition enlarges the field of vision and supports ergonomic viewing.**
- **The brilliance of color enables optimal diagnosis.**
- **Lateral view is enhanced by 32% when the endoscope is withdrawn slightly, providing the same image enhancement as a standard system. Any vertical information loss is restored and the lens remains clean.**



222010 11U102 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI Module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cables,** for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

Specifications:

Signal-to-noise ratio	IMAGE 1 HUB™ HD, three-chip camera systems ≥ 60 dB
AGC	Microprocessor-controlled
Video output	- FULL HD signal to DVI-D socket (2x) - SDI signal to BNC socket (only IMAGE 1 HUB™ HD with SDI module) (2x) - RGBS signal to D-Sub socket - S-Video to 4-pin Mini-DIN socket (2x) - Composite signal to BNC socket
Input	Keyboard for title generator, 5-pin DIN socket

Control output/input	- KARL STORZ-SCB to 6-pin Mini-DIN socket (2x) - 3.5 mm stereo socket (ACC 1, ACC 2), - Serial port at RJ-11 - USB Port (only IMAGE 1 HUB™ HD mit ICM) (2x)
Dimensions (w x h x d)	305 x 89 x 335 mm
Weight	3.35 kg
Power supply	100-240 VAC, 50/60 Hz
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601-1 and CE according to MDD, protection class 1/CF, defibrillation-safe

Optional Accessories for IMAGE 1 HUB™ HD and Components/Spare Parts see catalog TELEPRESENCE

4-11

IMAGE1 FULL HD Camera Head for Endoscopy and Microscopy

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22 2010 11U102



22 2200 55-3

NEW **22** 2200 55-3 | **50 Hz**
60 Hz | **IMAGE1 H3-Z**
Three-Chip FULL HD Camera Head

max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 – 31 mm (2x), 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Accessories



533 TVA

040112-40* **Camera Cover,** folded inside out, 13 x 242 cm, sterile, for single use, package of 25, for use with all standard endoscopic video camera systems

040112-160* **Same,** package of 160

533 TVA **Adaptor, autoclavable,** permits telescope changing under sterile conditions

Specifications:

IMAGE1 FULL HD Camera Head	H3-Z
50/60 Hz	**22** 2200 55-3
Image sensor	3x ⅓" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x d)	39 x 49 x 114 mm
Weight	270 g
Optical interface	Integrated Parfocal Zoom Lens, f = 15-31 mm (2x)
Min. sensitivity	F 1.4/1.17 Lux
Grip mechanism	standard eyepiece adaptor
Cable	non-detachable
Cable length	300 cm

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Optional Accessories for IMAGE 1 HUB™ HD see catalog TELEPRESENCE

4-11

KARL STORZ WIDEVIEW™ HD Monitors



9524 N/NO
9526 N/NO



9524 NB/NBO
9526 NB/NBO

KARL STORZ HD Flat Screens	24"		26"	
Desktop with pedestal	9524 N	9524 NO	9526 N	9526 NO
Wall-mounted with VESA 100-adaption	9524 NB	9524 NBO	9526 NB	9526 NBO
Inputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
SOG	●	●	●	●
DVI-D	●	●	●	●
Fiber Optic	–	●	–	●
VGA	●	●	●	●
Outputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
DVI-D	●	●	●	●
Displayable Signal Formats:				
4:3	●	●	●	●
5:4	●	●	●	●
16:9	●	●	●	●
16:10	●	●	●	●
Picture-in-Picture	●	●	●	●
PAL/NTSC compatible	●	●	●	●

The following accessories are included:
Mains Cord
External 24VDC Power Supply
Signal Cable
Pedestal (only 9524 N/NO and 9526 N/NO)

The systems can be operated with KARL STORZ-SCB units.
Video Connecting Cables see catalog TELEPRESENCE

ENDOCRANE® Holding System NEW

The ENDOCRANE® holding arm is the system of choice if a particularly fast, accurate and safe positioning of instruments or endoscopes is required, i.e., in neurosurgery, laparoscopy or orthopedics.

The ENDOCRANE® holding arm helps surgeons and assistant surgeons to save time as the positioning of instruments and telescopes is faster and easier than with a manual holding system.

The system also relieves the assistant surgeon from having to guide the camera and delivers steady images.

The ENDOCRANE® holding system features a special piezoelectric locking joint mechanism.

This achieves positioning without misalignment as well as rapid locking (30 ms), meeting the demands of a clinical setting.

The system can be used with one hand and the large working radius of 50 cm allows variable use. A holding capacity of 20 N (2 kg) is possible in any position.

The holding arm features a fail-safe function which prevents a loss of retention force in the case of malfunction, i. e. power failure.

The system is very compact and can be mounted directly on standard OR table rails.



28272 EH

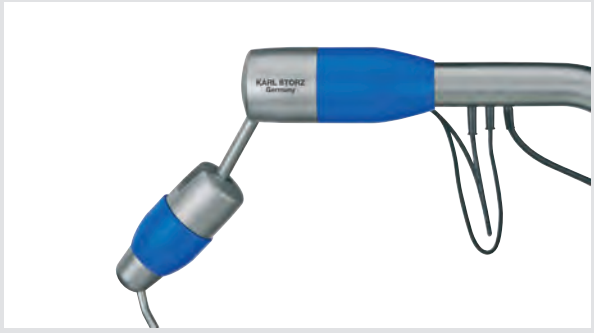
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ENDOCRANE® Holding System NEW

KARL STORZ — ENDOSKOPE

Product Features

- **Safety**
  The fail-safe function of the ENDOCRANE® prevents loss of retention force and ensures that the arm does not collapse in case of malfunction.
- **Accuracy**
  ENDOCRANE® offers accurate positioning without misalignment. This is indispensable for critical applications such as neurosurgery.
- **Speed**
  The piezoelectric principle enables the joints of the ENDOCRANE® to close in 30 ms and ensures a holding force of 20 N in all positions.
- **Convenience**
  The ENDOCRANE® system allows single-handed use via the handle.
- **Flexibility**
  ENDOCRANE® is equipped with the proven KARL STORZ rapid coupling, which ensures fast and secure mounting of various clamping jaws. The ENDOCRANE® handle also has a manual ball joint to allow convenient fine adjustment.
- **Hygiene**
  The ENDOCRANE® holding arm is equipped with a sterile cover during use. This guarantees 100% hygiene as well as safety and ensures that the system is in continuous use.

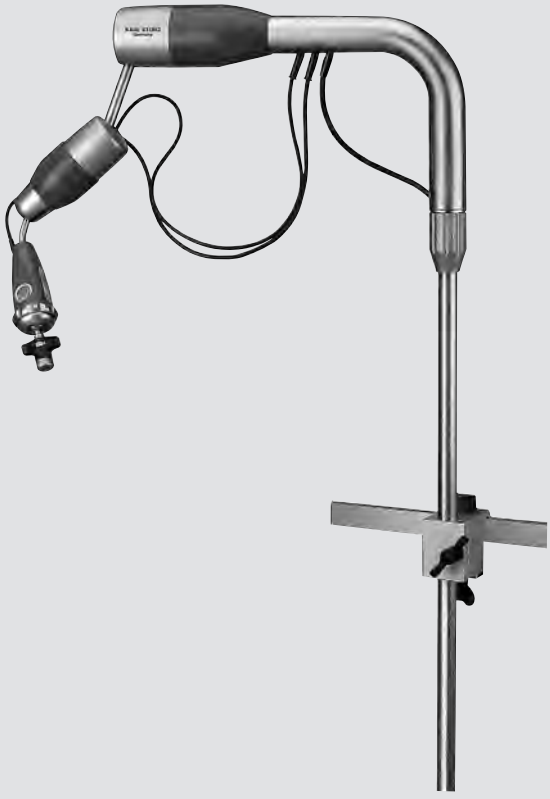






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ENDOCRANE® Holding System NEW



28272 EH

28272 EH	**ENDOCRANE®,** piezoregulated holding arm, including stand including: **Socket,** to clamp to the OR table **Control Unit** **Cover*,** sterile, package of 25 **Spring Balance** **Mains Cord** **Case**

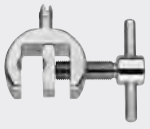
* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

A clamping jaw is required to complete the ENDOCRANE® holding system.
Clamping jaws for the ENDOCRANE® holding system see page 745
Components/Spare Parts see chapter 16

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ENDOCRANE® Holding System NEW

Accessories

	28272 UGN	**Clamping Jaw,** metal, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed KARL STORZ HOPKINS® telescopes
	28272 UKN	**Clamping Jaw,** metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths
	28272 UL	**Clamping Jaw,** universal, clamping range 0 to 18 mm, with quick release coupling KSLOCK (male)
	28272 UF	**Clamping Jaw,** for use with all KARL STORZ polymer housing fiberscopes, with quick release coupling KSLOCK (male)
	28272 C	**Clamping Cylinder,** for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.
*	040146-25*	**Cover,** sterile, package of 25

Specifications:

Arm:		**Control Unit:**	
Maximum holding capacity	2 kg/20 N	Power supply	100 – 240 VAC
Working radius	500 mm/19.7"	Mains frequency	50/60 Hz
Swivel range	360°	Weight	5 kg/11.0 lbs
Maximum locking time	30 ms (fail-safe)	Dimensions (w x h x d))	305 x 80 x 305 mm
Weight of holding arm and stand	7 kg/15.4 lbs		
Protection against electric shock	Type B		
Type of protection	IP 40		

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Specifications subject to change.

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POINT SETTER® Holding System NEW

KARL STORZ — ENDOSKOPE

The POINT SETTER® holding system is the perfect solution for positioning endoscopes as well as cameras, retractors or other instruments.

The POINT SETTER® holding arm is mounted directly to the operating table and features safe, simple and reliable use.

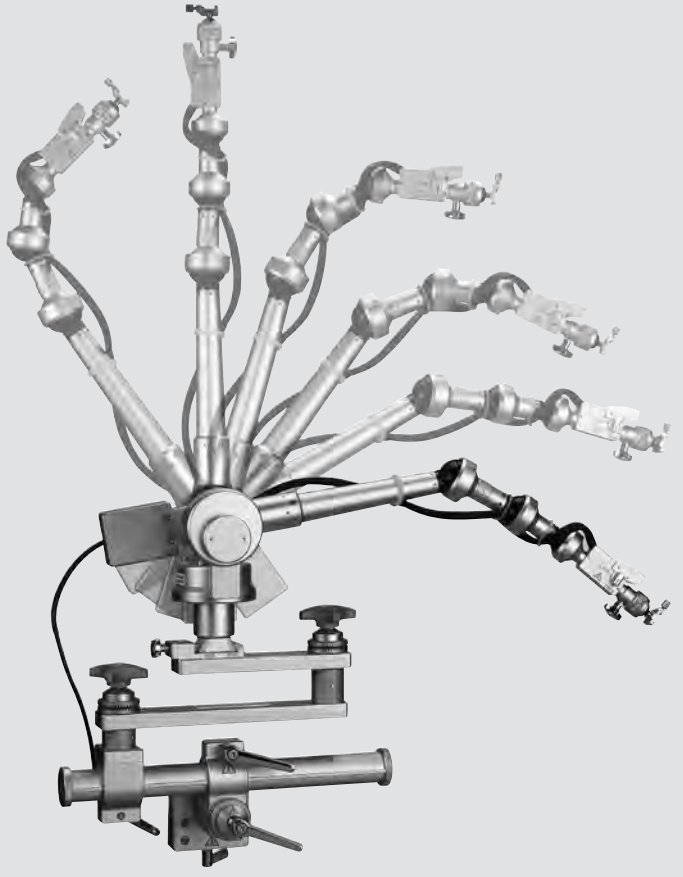
The patented self-locking pneumatic system ensures perfect safety, eliminating the need for additional error-prone electronics.

Furthermore, the POINT SETTER® holding arm allows convenient single-handed use. Pressing and holding the control button on the handle releases the arm for quick and accurate positioning. The POINT SETTER® arm locks as soon as the button is released.

The flexible OR table adaptor and the arm length of 65 cm provides more work space. Combined with a holding capacity of 2 kg this makes the POINT SETTER® an ideal tool for surgical interventions.

Special Features:

- **The self-locking pneumatic system ensures that low, fluctuating or deficient gas pressure does not affect the stability of the arm.**
- **A press of a control button releases the arm immediately for quick positioning.**
- **Side guards prevent accidental activation of the POINT SETTER® arm.**
- **A locking mechanism offers additional safety.**
- **A manual ball joint at the tip of the handle enables convenient fine-tuning.**
- **Special surface structure for uniform and smooth movement as well as accurate positioning.**
- **Precise positioning without forward or backward motion.**
- **The POINT SETTER® arm is very robust and has high torsional stiffness to ensure low oscillation and high reliability.**



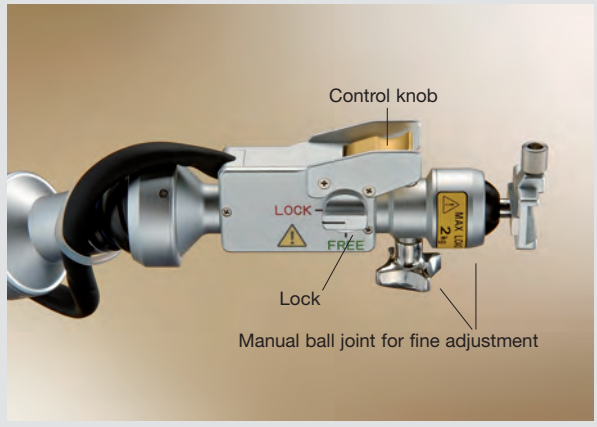
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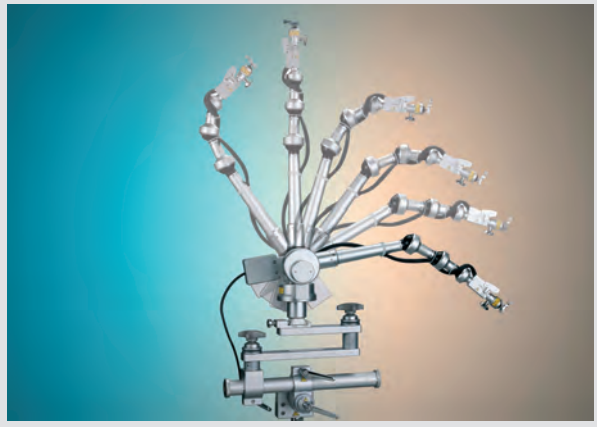
POINT SETTER® Holding System NEW

Product Features

- **Perfect Safety**
  The POINT SETTER® arm operates according to an innovative, self-locking principle similar to a spring-loaded brake. This makes it totally safe and reliable. Low, fluctuating or deficient gas pressure does not effect arm stability. The arm cannot collapse even if all pressure tubes are cut off.
- **Recoil-free Positioning**
  The POINT SETTER® arm enables very precise positioning without recoil or backlash. This is particularly important, especially if the system is used for nerve or brain retraction.
- **Convenient Use**
  The POINT SETTER® arm was designed for single-handed use. Pressing the control button releases the arm immediately and enables quick positioning. The control button has an elevated side guard that prevents unintentional activation of the POINT SETTER® arm. A locking mechanism offers additional safety.
- **Manual Fine-tuning**
  A manual ball joint at the tip of the handle enables convenient fine-tuning.
- **Uniform Movement**
  The connector joints of the POINT SETTER® arm have a special surface structure for uniform and smooth movement.
- **Balanced System**
  The POINT SETTER® arm is counterbalanced to ensure optimal movement. This is particularly important to ensure that the surgeon's fine-motor control remains unhindered during complex interventions.
- **Robust Design**
  The POINT SETTER® arm is very robust and has high torsional stiffness for low oscillation and high reliability.





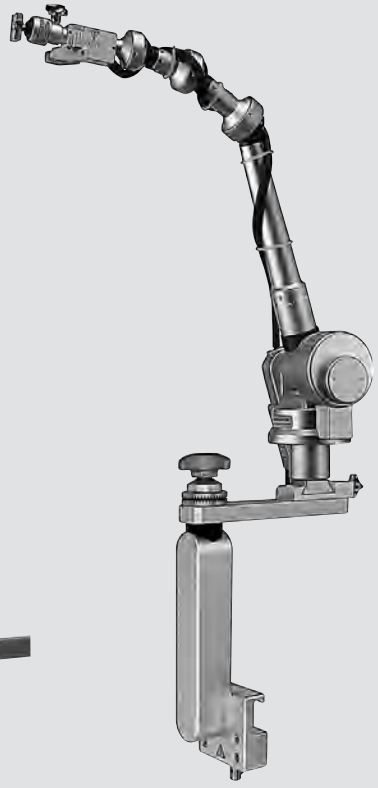


POINT SETTER® Holding System NEW

KARL STORZ — ENDOSKOPE



28172 WS



28172 WL

28172 WS **POINT SETTER®,** pneumatic holding system with OR table adaptor including:
Universal Adaptor, for use with telescopes diameter 10 – 15 mm
Universal Adaptor, for use with telescopes diameter 5 – 10 mm
Universal Adaptor, 10 – 15 mm, pediatric
Schrader Pressure Hose, length 600 cm, for USA and Asia
Case, for POINT SETTER® arm
Drape, for single use, sterile, package of 10

28172 WL **Same,** with OR table adaptor, **simplified version**

For faster installation and more straightforward handling of the POINT SETTER® holding arm, Set 28172 WL offers a lighter OR table adaptor with less setting options than the standard OR table adaptor.

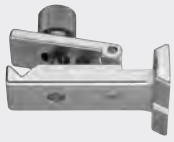
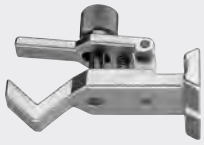
Specifications subject to change.

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POINT SETTER® Holding System NEW

Spare Universal Adaptor, for complementing the POINT SETTER® System

KARL STORZ — ENDOSKOPE

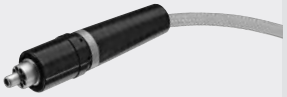
	28172 WV	**Universal Adaptor,** 10 – 15 mm, for use with POINT SETTER®
	28172 WU	**Universal Adaptor,** 5 – 10 mm, for use with POINT SETTER®
	28172 WX	**Universal Adaptor,** 10 – 15 mm, pediatric, for use with POINT SETTER®
	28172 WR	**Retractor Blade Holder,** for holding spatulas and retractors in ENT and NEURO, for use with POINT SETTER®

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POINT SETTER® Holding System NEW

KARL STORZ — ENDOSKOPE

Alternative and Spare Connecting Tubes

	28172 WA	**Connecting Tube,** for POINT SETTER®, Dräger, max. pressure 8 bar/115 psi, length 600 cm
	28172 WB	**Connecting Tube,** for POINT SETTER®, Dräger air motor, max. pressure 8 bar/115 psi, length 600 cm
	28172 WC	**Connecting Tube,** for POINT SETTER®, compressor, max. pressure 8 bar/115 psi, length 600 cm
	28172 WN	**Connecting Tube,** for POINT SETTER®, Schrader, max. pressure 8 bar/115 psi, length 600 cm
	28172 WO	**Connecting Tube,** for POINT SETTER®, with open end, max. pressure 8 bar/115 psi, length 600 cm

Accessories and Expendable Materials

	**20** 0310 02	**Air Compressor,** for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg including: **Fabric Reinforced Tube,** for connecting CALCUSPLIT® SCB **27** 6300 20 **Connecting Tube,** length 600 cm, for use with POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar
	20 0310 02 C	**Same,** power supply 115 VAC, 50/60 Hz
	2761291	**Pressure Regulator,** 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line
	28272 C	**Clamping Cylinder,** for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28172 UG and 28272 UGN as well as POINT SETTER® universal adaptor 10 – 15 mm
	28272 ECW	**Spring Balance,** loading capacity 25 N
	28172 WD	**Drape,** for single use, sterile, package of 10

Components/Spare Parts see chapter 16

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STOR-E® Transport Cart

for POINT SETTER® Holding Arm

With the aid of the transport cart, the POINT SETTER® holding system can be easily transported into the OR. The components of the POINT SETTER® holding system are safely suspended from the cart at a convenient height. This enables easy and quick mounting to standard OR table rails.

Special Features:

- **Mobile and safe storage of the POINT SETTER® holding arm**
- **Faster installation and readiness of the POINT SETTER® for immediate use in the OR**
- **Offers space for the POINT SETTER® with standard OR table adaptor, connecting tube, sterile covers and small parts**



20 0200 59

20 0200 59 **STOR-E® Transport Cart,** for the POINT SETTER® holding arm including:
Attachment Set, for POINT SETTER®
Wire Basket

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Components/Spare Parts see chapter 16





COMPONENTS
SPARE PARTS

Introduction

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

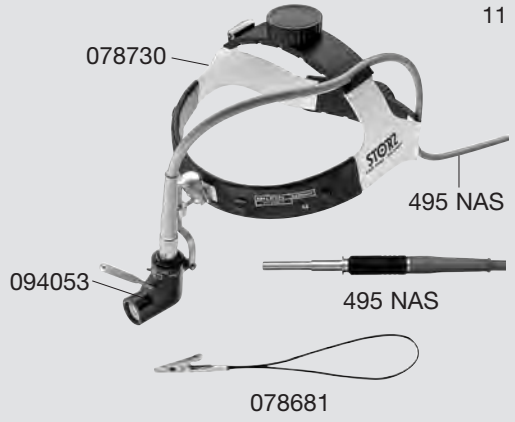
For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

Hotline

Queries concerning products, exchange, maintenance and cleaning can be addressed to the KARL STORZ EP1 Hotline: 07461/708-980, from Monday to Thursday from 7-18 h and Friday from 7-17 h.

For example:

Components / Spare Parts		Catalog page
095501	**Headlight “CLAR 73”,** with straight plug	11
095502	**Headlight “CLAR 73”,** with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source	
078730	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



Components / Spare Parts		Catalog page
078730	**Headband,** for 094051	12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion, with push-button lock



078503
Brake Cylinder, 3-part, for ball joint



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Components/spare parts with corresponding order number of the instrument and reference to catalog page

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Components / Spare Parts — Catalog page

074090 **Headmirror Standard** — 3

074091 **Headmirror,** diameter 90 mm
074095 **Headband,** narrow

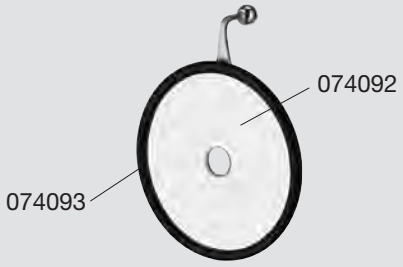
075090 **Headmirror Standard**

074091 **Headmirror,** diameter 90 mm
075095 **Headband,** wide



Components / Spare Parts — Catalog page

074091 **Headmirror,** diameter 90 mm — –



Spare Parts



074092
Mirror Glass,
diameter 90 mm



074093
Rubber Ring,
diameter 90 mm



074094
Back Wall,
diameter 90 mm

Components / Spare Parts — Catalog page

074095 **Headband,** narrow, for 074090 — –
075095 **Headband,** wide, for 075090 — –



Spare Parts



075096
Knurled Cap,
for ball joint



075097
Brake Cylinder, 3-part,
for ball joint

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Headmirrors

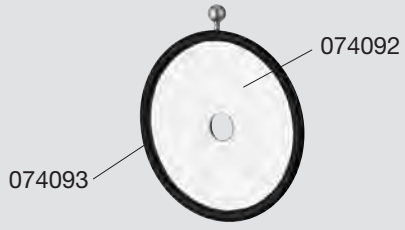
Reflectors, Headbands

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076090	ZIEGLER **Headmirror**	3
076091	**Headmirror,** diameter 90 mm	
076095	**Headband,** narrow	
077090	ZIEGLER **Headmirror**	
076091	**Headmirror,** diameter 90 mm	
077095	**Headband,** wide	



Components / Spare Parts		Catalog page
076091	**Headmirror**, diameter 90 mm	–



Spare Parts



074092
Mirror Glass,
diameter 90 mm



074093
Rubber Ring,
diameter 90 mm



074094
Back Wall,
diameter 90 mm

Components / Spare Parts		Catalog page
076095	ZIEGLER **Headband,** narrow, for 076090	–
077095	ZIEGLER **Headband,** wide, for 077090	–



Spare Part

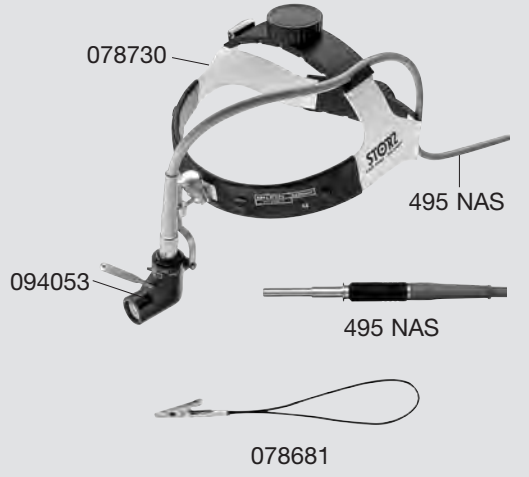


077096
Double Joint

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Headlights

Components / Spare Parts		Catalog page
094051	**Headlight**	7
094053	**Headlight,** with U-shaped suspension and ball joint	
078730	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505	
495 NAS	**Fiber Optic Light Cable,** straight plug, diameter 3.5 mm, length 230 cm	
078681	**Clip with Band,** for attaching the fiber optic light cable to OR clothing	



094055	**Headlight**	
094053	**Headlight,** with U-shaped suspension and ball joint	
078730	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505	
495 NWMS	**Fiber Optic Light Cable,** with 90° deflection to the cold light source, diameter 3.5 mm, length 230 cm	
078681	**Clip with Band,** for attaching the fiber optic light cable to OR clothing	



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Components / Spare Parts	Catalog page
078730 **Headband,** for 094051 and 094055	12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock



078503
Brake Cylinder, 3-part,
for ball joint



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Components / Spare Parts	Catalog page
094053 **Headlight,** for 094051 and 094055	–



Spare Parts



084508
Suspension,
with cross connection,
for 084500 – 084503



094005
Handle, sterilizable,
with sleeve

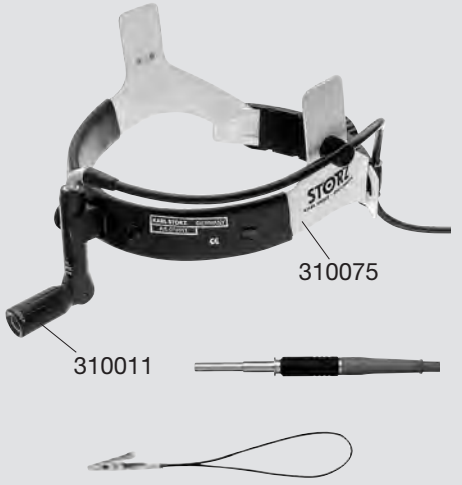


5915702
Thread Pin, for lamp head

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Headlights

Components / Spare Parts		Catalog page
310010	**Headlight,** with straight plug	8
310011	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source	
310075	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



310015	**Headlight,** with 90° deflection	
310016	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source	
310075	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



Components / Spare Parts		Catalog page
310075	**Headband,** for 310010 and 310015	12



Spare Part



078511
Forehead Cushion,
with push-button lock

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Headlights

Components / Spare Parts		Catalog page
310020	**Headlight,** with straight plug	8
310011	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source	
310076	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



310025	**Headlight,** with 90° deflection	
310016	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source	
310076	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



Components / Spare Parts		Catalog page
310076	**Headband,** for 310020 and 310025	12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

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Headlights

Components / Spare Parts		Catalog page
094301	**Headlight,** with straight plug	9
094302	**Headlight,** lightweight model, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source	
078740	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



094305	**Headlight,** with 90° deflection	
094306	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source	
078740	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



094320	**Headlight,** with straight plug	10
094322	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source	
078740	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



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Headlights

Components / Spare Parts		Catalog page
094325	**Headlight,** with 90° deflection	10
094326	**Headlight,** with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source	
078740	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



094330	**Headlight**	
094332	**Headlight,** with connection for use with thin, 230 cm long fiber optic light cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the light source	
078740	**Headband,** extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



Components / Spare Parts		Catalog page
078740	**Headband,** for 094301, 094305, 094320, 094325 and 094330	12



Spare Part



078511
Forehead Cushion,
with push-button lock

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Components / Spare Parts		Catalog page
094100	**LED Headlight,** with white light	5
094103	**Headlight,** LED technology, **white light,** including connecting cable for battery box	
094108	**Battery Box,** for use with 2 Photo Batteries 121306 P, CR 123 A	
121306 P	**Photo Batteries,** lithium, 3 V, CR 123 A	
078760	**Headband,** for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124	



094110	**LED Headlight,** with yellowish light	
094104	**Headlight,** LED technology, **yellowish light,** including connecting cable for battery box	
094108	**Battery Box,** for use with 2 Photo Batteries 121306 P, CR 123 A	
121306 P	**Photo Batteries,** lithium, 3 V, CR 123 A	
078760	**Headband,** for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124	

Components / Spare Parts		Catalog page
094108	**Battery Box,** for 094100 and 094110	–



Spare Parts



094108 B
Cover, for Battery Box 094108



121306 P
Photo Battery, lithium, 3 V, CR 123 A

8-11

Spare parts for headband see SP 14

Components / Spare Parts		Catalog page
094120	**LED Headlight,** with white light	5, 399
094103	**Headlight,** LED technology, **white light,** including connecting cable for rechargeable battery box	
094124	**Rechargeable Battery Box,** with 1 Li-Ion rechargeable battery	
094129	**Battery Charger Li-Ion,** for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz	
094127	**Mains Cord,** for Battery Charger 094129, length 150 cm	
078760	**Headband,** for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124	



094130	**LED Headlight,** with yellowish light	
094104	**Headlight,** LED technology, **yellowish light,** including connecting cable for rechargeable battery box	
094124	**Rechargeable Battery Box,** with 1 Li-Ion rechargeable battery	
094129	**Battery Charger Li-Ion,** for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz	
094127	**Mains Cord,** for Battery Charger 094129, length 150 cm	
078760	**Headband,** for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124	

Components / Spare Parts		Catalog page
094124	**Rechargeable Battery Box,** for 094120 and 094130	–



Spare Parts



094125 A
Li-Ion Rechargeable Battery Cell, with key



094127
Mains Cord,
for Battery Charger 094129, length 150 cm



094129
Battery Charger Li-Ion,
for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz



094105
Extension Cable,
for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

Spare parts for headband see SP 14

8-11

Components / Spare Parts		Catalog page
078760	**Headband,** for 094100, 094110, 094120 and 094130	12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs



094109
Holding Band,
for Battery Box 094108 or Rechargeable Battery Box 094124, leather, with snap closure

8-11

Components / Spare Parts		Catalog page
095501	**Headlight “CLAR 73”,** with straight plug	11
095502	**Headlight “CLAR 73”,** with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source	
078730	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	

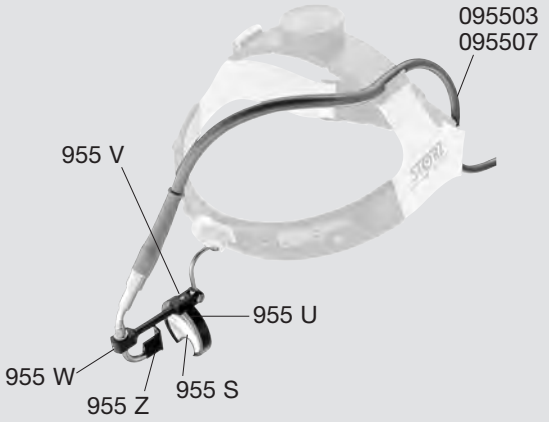


095505	**Headlight “CLAR 73”,** with 90° deflection	
095506	**Headlight “CLAR 73”,** with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with 90° deflection to the light source	
078730	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505	
078681	**Clip with Band,** for attaching fiber optic light cable to OR clothing	



Spare parts for headlights and headband see following pages

Components / Spare Parts		Catalog page
095502	**Headlight “CLAR 73”,** with straight plug	–
095506	**Headlight “CLAR 73”,** with 90° deflection	–



Spare Parts



955 S
Mirror



955 U
Metal Holder,
for mirror



955 V
Fixation Screw,
for metal holder (mirror)



955 W
Fixation Screw,
for fiber optic light cable



955 Z
Fixation Screw, set of 2

Spare Part for 095502



095503
Integral Fiber Optic Light Cable, with straight plug

Spare Part for 095506



095507
Integral Fiber Optic Light Cable, with 90° deflection

8-11

Components / Spare Parts		Catalog page
078730	**Headband,** for 095501 and 095505	12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock

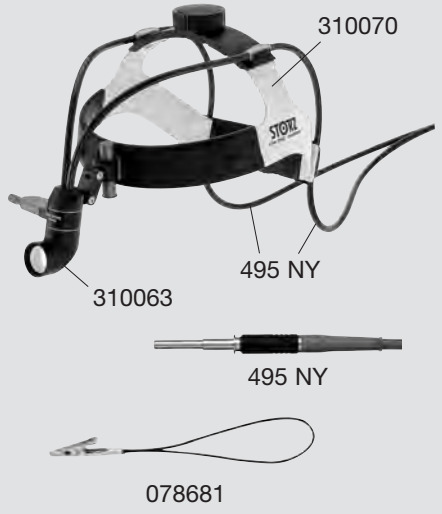


078503
Brake Cylinder, 3-part,
for ball joint

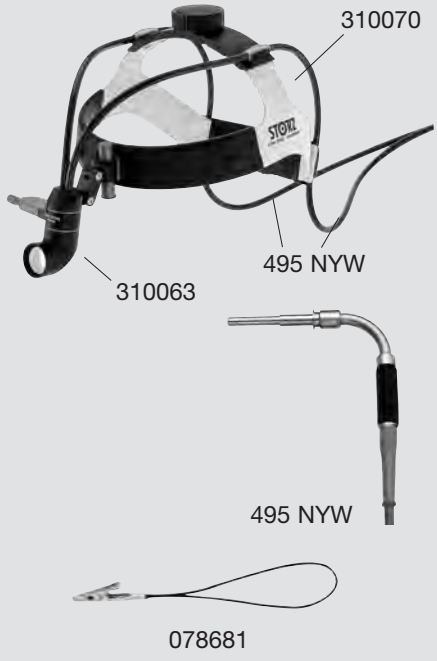


310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Components / Spare Parts		Catalog page
310060	**Headlight KS60**	6
310063	**Headlight KS60,** with removable and sterilizable Focus Handle 310065	
310070	**Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063	
495 NY	**Y-Fiber Optic Light Cable,** with special protective casing for Headlight 310063, length 290 cm	
078681	**Clip with Band,** for attaching the fiber optic light cable to OR clothing	



310061	**Headlight KS60**	
310063	**Headlight KS60,** with removable and sterilizable Focus Handle 310065	
310070	**Headband,** fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063	
495 NYW	**Y-Fiber Optic Light Cable,** with special protective casing for Headlight 310063, with 90° deflection to the cold light source, length 290 cm	
078681	**Clip with Band,** for attaching the fiber optic light cable to OR clothing	



8-11

Components / Spare Parts	Catalog page
310070 **Headband,** for 310060 and 310061	12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Components / Spare Parts	Catalog page
310063 **Headlight KS60,** for 310060 and 310061	–



Spare Part



310065
Handle, with focusing screw, sterilizable

8-11

Headlights

Headlight “CLAR 55”

Components / Spare Parts		Catalog page
087200	**Headlight “CLAR 55”**	–
087201	**Headlight “CLAR 55”**	
108210	**Headlight Cable,** complete, length 240 cm	
087290	**Headband,** wide	
087284	**Spare Lamp,** 6 V	



Components / Spare Parts		Catalog page
087290	**Headband,** wide, for “CLAR 55”	–



Spare Parts



087294
Velcro Strips, for fastening inside Headband 087290, length 11.5 cm



087295
Cushion, for Velcro fastener



087296
Knurled Cap, for ball joint, for 087290

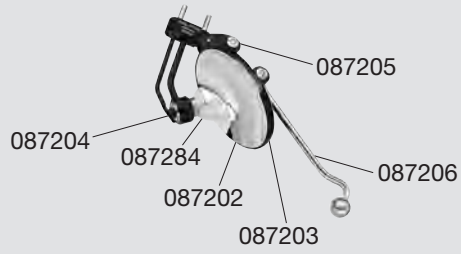


087297
Brake Cylinder, 3-part, for ball joint, for 087290

8-11$_1$

Components / Spare Parts — Catalog page

087201 **Headlight “CLAR 55”** –



Spare Parts



087202
Mirror



087203
Mirror Tray



087204
Lamp Holder,
with plug connector



087205
Adaptor, between mirror tray and lamp holder



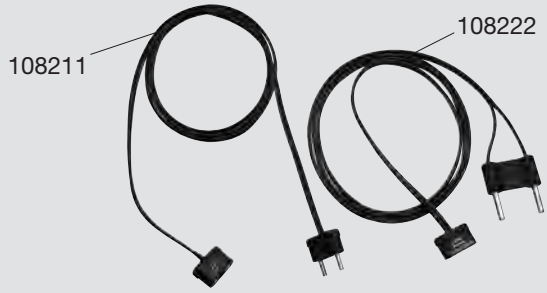
087206
Suspension Device



087284
Spare Lamp, spherical, diameter 17.5 mm, 6 V, 1 A

Components / Spare Parts — Catalog page

108210 **Headlight Cable,** complete –



Spare Parts



108211
Upper Headlight Cable,
length 120 cm, with Mignon adaptor for connection to Headlights 084400, 084900, 087200 and Mignon plug



108213
Mignon Coupling, female



108214
Mignon Plug, male



108222
Lower Headlight Cable,
with 25 mm flat plug,
length 120 cm

8-11

Components / Spare Parts		Catalog page
1232 AA	**HOPKINS® Straight Forward Telescope 0°**	15
1232 BA	**HOPKINS® Forward-Oblique Telescope 30°**	15



Spare Parts

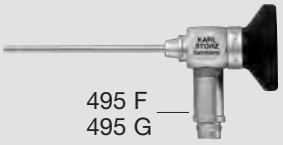


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
1218 AA	**Tele-Otoscope,** with HOPKINS® Straight Forward Telescope 0°	16
1218 BA	**Tele-Otoscope,** with HOPKINS® Forward-Oblique Telescope 30°	16
1215 AA	**Tele-Otoscope,** with HOPKINS® Straight Forward Telescope 0°	16



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

3-13

Components / Spare Parts		Catalog page
1230 AA	**HOPKINS® Straight Forward Telescope 0°**	17
1230 BA	**HOPKINS® Forward-Oblique Telescope 30°**	17



Spare Parts

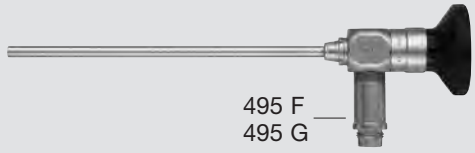


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
1216 AA	**HOPKINS® Straight Forward Telescope 0°**	398-399



Spare Parts



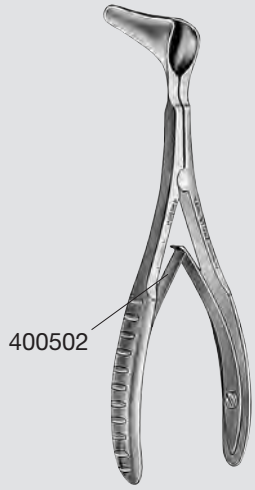
495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Nasal Specula

Components / Spare Parts		Catalog page
400500	HARTMANN **Nasal Speculum**	106
403540	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403555	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403565	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403575	KILLIAN-STRUYCKEN **Nasal Speculum**	107, 364
403590	KILLIAN-STRUYCKEN **Nasal Speculum**	107

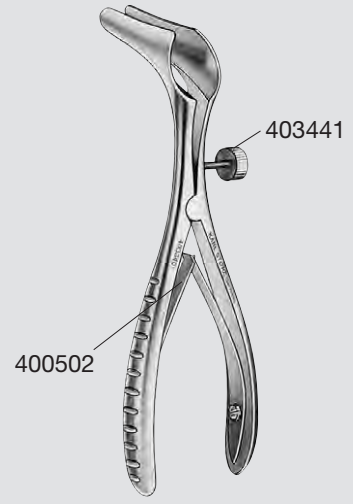


Spare Part



400502
Spring, for nasal speculum

Components / Spare Parts		Catalog page
403340	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403355	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403375	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403390	KILLIAN-STRUYCKEN **Nasal Speculum**	107
403440	KILLIAN-STRUYCKEN **Nasal Speculum**	–
403455	KILLIAN-STRUYCKEN **Nasal Speculum**	–
403475	KILLIAN-STRUYCKEN **Nasal Speculum**	–
403490	KILLIAN-STRUYCKEN **Nasal Speculum**	–
403835	COTTLE **Nasal Speculum**	108
403855	COTTLE **Nasal Speculum**	108
403865	COTTLE **Nasal Speculum**	108
403875	COTTLE **Nasal Speculum**	108
403890	COTTLE **Nasal Speculum**	108
403950	COTTLE **Nasal Speculum**	–
403975	COTTLE **Nasal Speculum**	–



Spare Parts



400502
Spring, for nasal speculum



403441
Set Screw

8-11

Nasal Specula, Septum Morcelizers

Components / Spare Parts		Catalog page
404040	**Nasal Speculum**	108, 316
404055	**Nasal Speculum**	108, 316
404075	**Nasal Speculum**	364
404090	**Nasal Speculum**	364



Spare Parts



404037
Fiber Optic Light Carrier



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
469600	RUBIN **Septum Morcelizer**	125
488038	RUBIN **Septum Morcelizer**	158



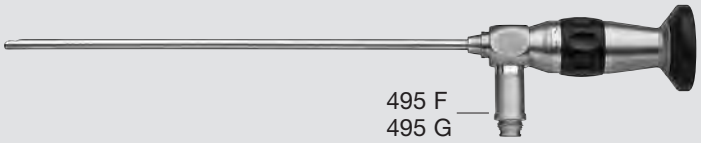
Spare Part



469602
Protective Cap, for
RUBIN Septum Morcelizer
469600 and 488038

8-11

Components / Spare Parts		Catalog page
7230 AE	**ENDOCAMELEON® ENT HOPKINS® Telescope**	252



Spare Parts

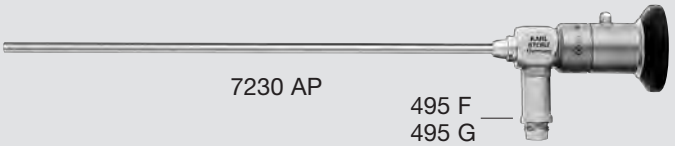


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
7230 AP	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	254, 681
7230 BP	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	254, 681
7230 FP	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	254, 681



Spare Parts



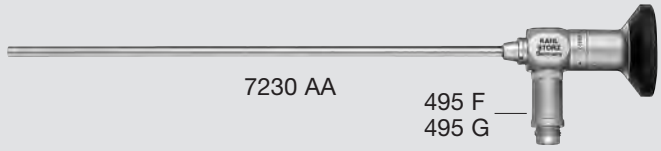
495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

3-13

Components / Spare Parts		Catalog page
7230 AA	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	256, 313
7230 AWA	**HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view**	255
7230 BA	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	256, 313
7230 BWA	**HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view**	255
7230 CA	**HOPKINS® II Lateral Telescope 70°, enlarged view**	256
7230 CWA	**HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view**	255
7230 DA	**HOPKINS® II Lateral Telescope 90°, enlarged view**	256
7230 EA	**HOPKINS® II Retrograde Telescope 120°, enlarged view**	256
7230 FA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	256
7230 FWA	**HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view**	255



Spare Parts

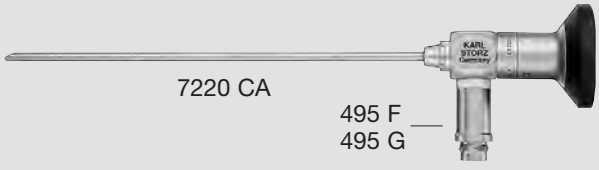


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
7230 FLA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	257
7230 BVA	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	257
7230 FVA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	257
7230 CVA	**HOPKINS® II Lateral Telescope 70°, enlarged view**	257
7235 AWA	**HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view**	257
7220 AA	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	258
7220 BA	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	258
7220 CA	**HOPKINS® II Lateral Telescope 70°, enlarged view**	258
7220 FA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	258
7220 FVA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	258
7229 AA	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	259
7229 BA	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	259, 283
7229 FA	**HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**	259
7229 CA	**HOPKINS® II Lateral Telescope 70°, enlarged view**	259
7207 AA	**HOPKINS® II Straight Forward Telescope 0°**	260
7207 BA	**HOPKINS® II Forward-Oblique Telescope 30°**	260
7209 BA	**HOPKINS® Forward-Oblique Telescope 30°**	260, 316



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

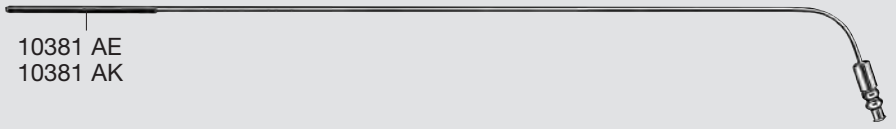


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Suction and Irrigation Tubes

Suction Tubes

Components / Spare Parts		Catalog page
10381 A	**Suction Tube**	663
10381 AL	**Suction Tube**	611
10381 B	**Suction Tube**	611, 663



10381 AE
10381 AK

Spare Parts

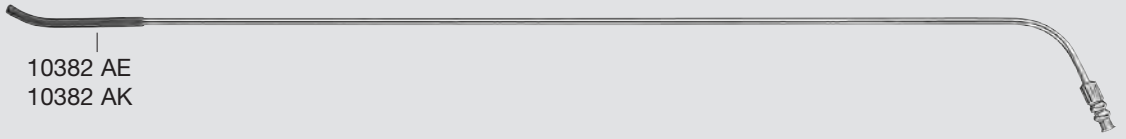
Spare Part for 10381 A and 10381 AL

10381 AE
Rubber Tip, straight

Spare Part for 10381 B

10381 AK
Rubber Tip, straight

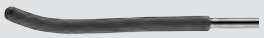
Components / Spare Parts		Catalog page
10382 A	**Suction Tube**	663
10382 AM	**Suction Tube**	611
10382 B	**Suction Tube**	611, 663



10382 AE
10382 AK

Spare Parts

Spare Part for 10382 A and 10382 AM



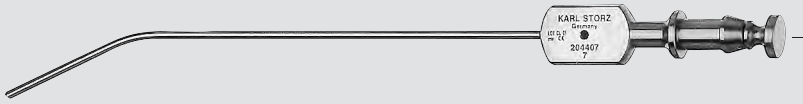
10382 AE
Rubber Tip, curved

Spare Part for 10382 B



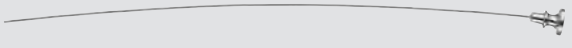
10382 AK
Rubber Tip, curved

Components / Spare Parts		Catalog page
204405	PLESTER **Suction Tube**	37
204407	PLESTER **Suction Tube**	37
204409	PLESTER **Suction Tube**	37



204405 E
204407 E
204409 E

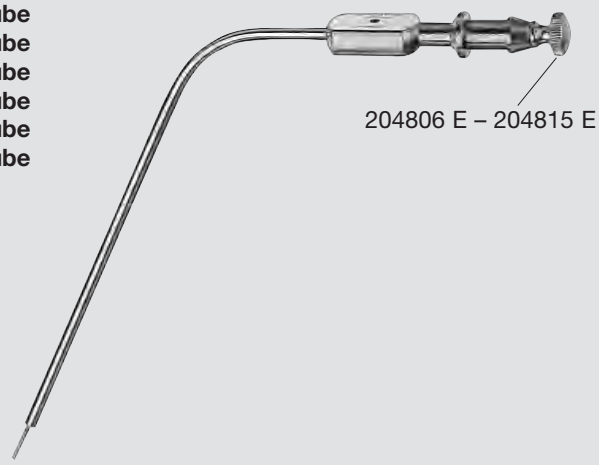
Spare Parts



for 204405	204405 E **Stylet**
for 204407	204407 E **Stylet**
for 204409	204409 E **Stylet**

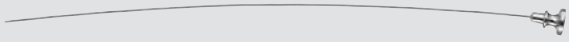
8-11

Components / Spare Parts		Catalog page
204806	FERGUSON **Suction Tube**	37
204808	FERGUSON **Suction Tube**	37
204809	FERGUSON **Suction Tube**	37
204810	FERGUSON **Suction Tube**	37, 169
204812	FERGUSON **Suction Tube**	37, 169
204815	FERGUSON **Suction Tube**	37, 169



204806 E – 204815 E

Spare Parts



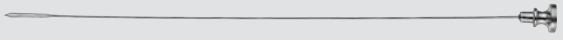
for 204806	204806 E **Stylet**	for 204810	204810 E **Stylet**
for 204808	204808 E **Stylet**	for 204812	204812 E **Stylet**
for 204809	204809 E **Stylet**	for 204815	204815 E **Stylet**

Components / Spare Parts		Catalog page
474001	FREER **Suction Elevator**	126, 302



474001 E

Spare Part



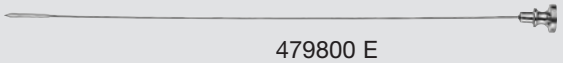
474001 E
Stylet

Components / Spare Parts		Catalog page
479800	**Suction Raspatory**	129



479800 E

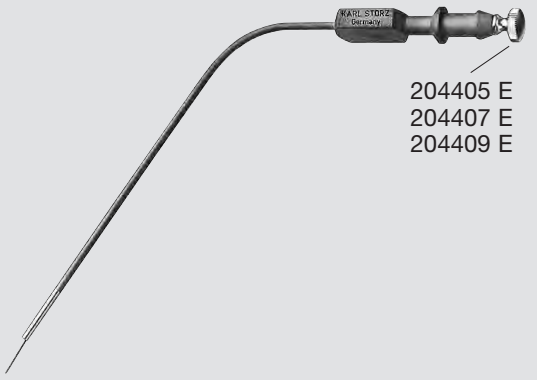
Spare Part



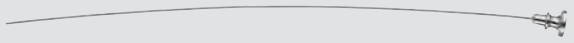
479800 E
Stylet

8-11

Components / Spare Parts		Catalog page
488084	FERGUSON **Suction Tube**	159
488085	FERGUSON **Suction Tube**	159
488086	FERGUSON **Suction Tube**	159

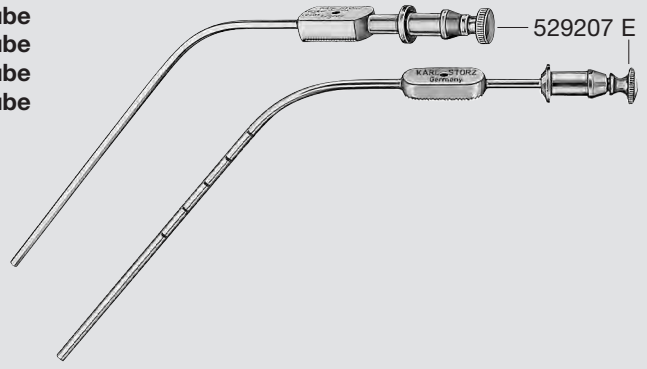


Spare Parts

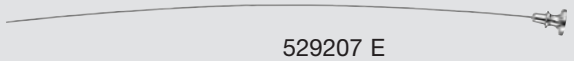


for 488084	488084 E **Stylet**
for 488085	488085 E **Stylet**
for 488086	488086 E **Stylet**

Components / Spare Parts		Catalog page
529205	FRAZIER **Suction Tube**	154
529207	FRAZIER **Suction Tube**	154
529305	FRAZIER **Suction Tube**	307
529307	FRAZIER **Suction Tube**	307, 315

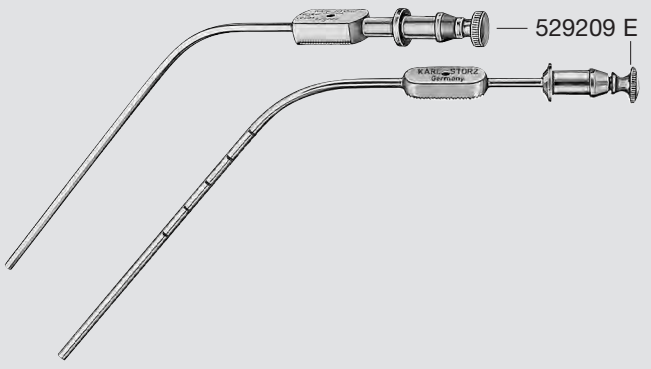


Spare Part

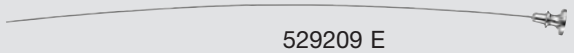


529207 E
Stylet

Components / Spare Parts		Catalog page
529209	FRAZIER **Suction Tube**	154
529309	FRAZIER **Suction Tube**	307



Spare Part



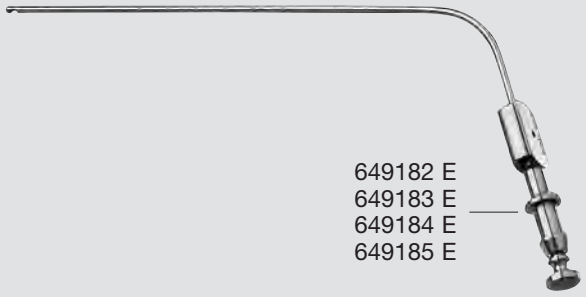
529209 E
Stylet

8-11

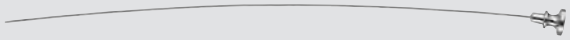
Suction and Irrigation Tubes, Larynx Instruments

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
649182	FERGUSON **Suction Tube**	194
649183	FERGUSON **Suction Tube**	194
649184	FERGUSON **Suction Tube**	194
649185	FERGUSON **Suction Tube**	194



Spare Parts



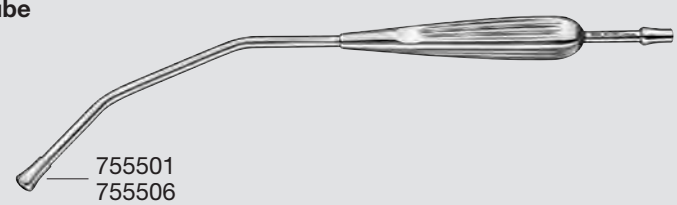
for 649182 — 649182 E **Stylet**

for 649183 — 649183 E **Stylet**

Spare Part for 649184 — 649184 E **Stylet**

Spare Part for 649185 — 649185 E **Stylet**

Components / Spare Parts		Catalog page
755500	YANKAUER **Suction Tube**	357
755505	YANKAUER **Suction Tube**	357



Spare Parts

Spare Part for 755500



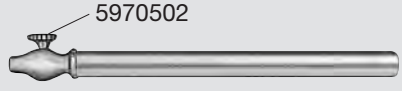
755501 **Suction Knob,** hole diameter 4 mm

Spare Part for 755505



755506 **Suction Knob,** hole diameter 2 mm

Components / Spare Parts		Catalog page
770500	**Handle,** for Laryngeal Mirror	359-360



Spare Part



5970502 **Spare Screw,** for Handle 770500

8-11

Suction and Irrigation Tube

Irrigation and Suction Handles

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
723620	THUMFART **Irrigation and Suction Handle**	197
723620 H	THUMFART **Handle,** with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F	
723620 DV	**Press Button Valve,** with lock function	
723621	THUMFART **Irrigation and Suction Handle**	
723620 H	THUMFART **Handle,** with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F	
723621 SV	**Push Button Valve** (irrigation only active when pressure valve is depressed)	



723620 DV
723621 SV

723620 H



723620 DV



723621 SV

Spare Part



7249291
O-Ring Set, 2 sizes, package of 5

Components / Spare Parts		Catalog page
723622	IRO **Irrigation and Suction Handle**	198
723622 H	IRO **Handle,** pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F	
723620 DV	**Press Button Valve,** with lock function	
723623	IRO **Irrigation and Suction Handle**	
723622 H	IRO **Handle,** pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F	
723621 SV	**Push Button Valve** (irrigation only active when pressure valve is depressed)	



723620 DV
723621 SV

723622 H



723620 DV



723621 SV

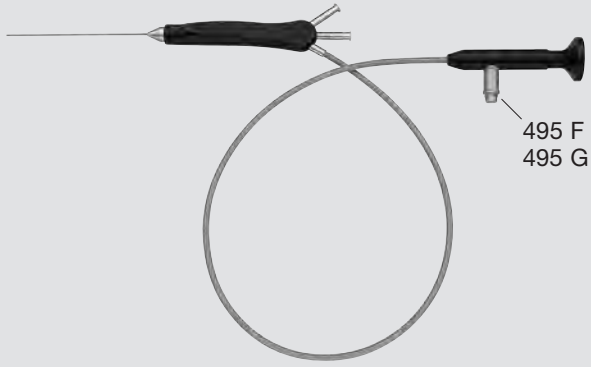
Spare Part



7249291
O-Ring Set, 2 sizes, package of 5

8-11

Components / Spare Parts		Catalog page
11572 A	**Miniature Straight Forward Telescope 0°**	320
11573 A	**Miniature Straight Forward Telescope 0°**	320
11574 A	**Miniature Straight Forward Telescope 0°**	320



Spare Parts

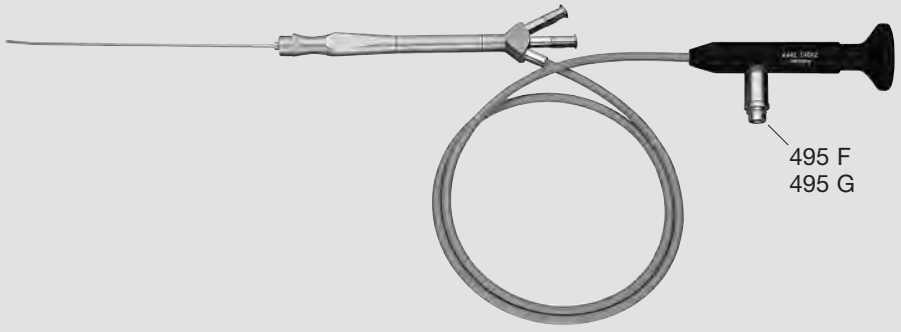


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
11575 A	**Miniature Straight Forward Telescope 0°**	321
11581 A	**Miniature Straight Forward Telescope 0°**	321
11582 A	**Miniature Straight Forward Telescope 0°**	321
11583 A	**Miniature Straight Forward Telescope 0°**	321



Spare Parts

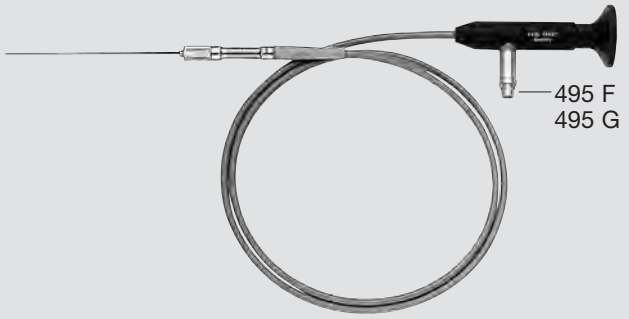


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
11576 A	**Miniature Straight Forward Telescope 0°**	322
11577 A	**Miniature Straight Forward Telescope 0°**	324



Spare Parts



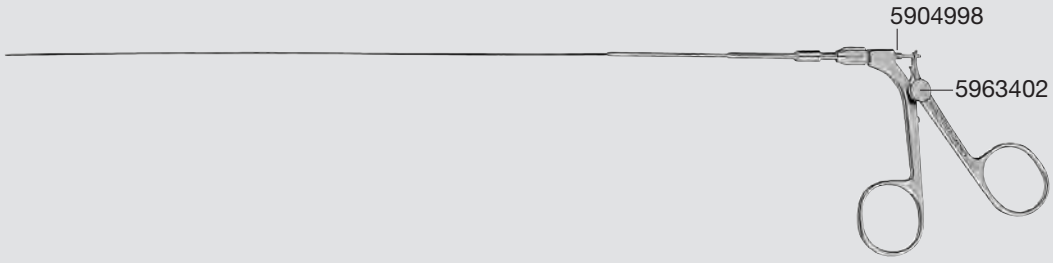
495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

3-13

Components / Spare Parts		Catalog page
11576 TJ	**Foreign Body Forceps**	326
11576 ZJ	**Biopsy Forceps**	326
11583 TJ	**Foreign Body Forceps**	326
11583 ZJ	**Biopsy Forceps**	326



Spare Parts

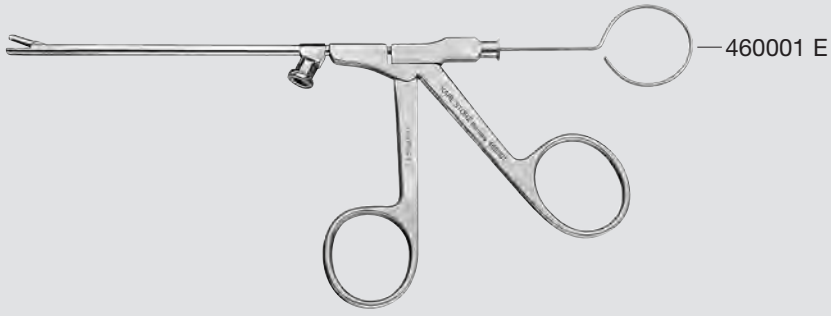


5904998
Seal, diameter 0.8 mm

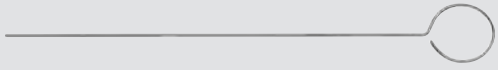


5963402
Knurled Screw

Components / Spare Parts		Catalog page
460001	STAMMBERGER **Suction Punch, for biopsy and grasping**	285
460501	STAMMBERGER **Suction Punch, for biopsy and grasping**	285



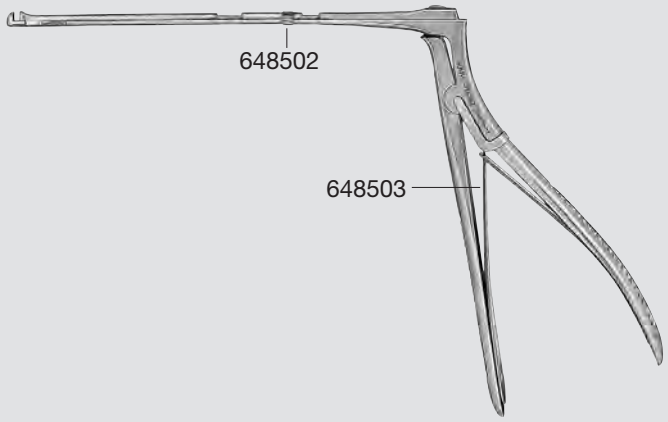
Spare Part



460001 E
Cleaning Stylet,
diameter 1.6 mm,
working length 18 cm

8-11

Components / Spare Parts		Catalog page
648500	HAJEK-KOFLER **Sphenoid Punch**	172



Spare Parts

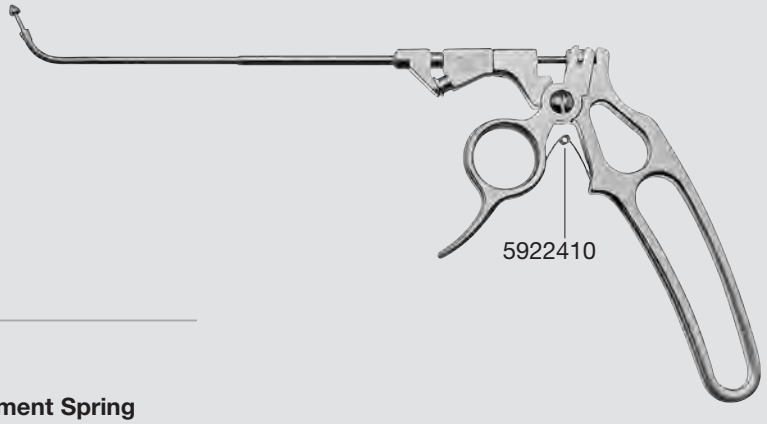


648502
Knurled Nut, for reversible Sphenoid Punch 648500 – 648523



648503
Spring, for bone punches

Components / Spare Parts		Catalog page
651503	HOSEMANN **Frontal Sinus/Recess Punch**	293
651504	HOSEMANN **Sphenoid Punch**	293



Spare Part

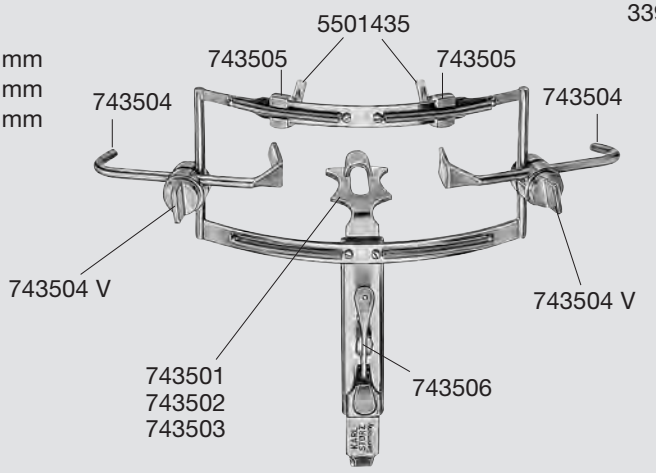


5922410
Replacement Spring

8-11

Tongue Blades and Mouth Gags

Components / Spare Parts		Catalog page
743500	DINGMANN **Mouth Gag**	339
743501	**Tongue Depressor,** size 1, 55 x 25 mm	
743502	**Tongue Depressor,** size 2, 60 x 27 mm	
743503	**Tongue Depressor,** size 3, 70 x 30 mm	
743504	**Cheek Retractor,** adjustable	
743504 V	**Screw Connection, complete**	
743505	**Tooth Hook,** movable	
743506	**Mouth Gag**	



Spare Part



5501435
Silicone Tubing

Components / Spare Parts		Catalog page
743910	DAVIS-MEYER **Tongue Blade**	340
743915	DAVIS-MEYER **Tongue Blade**	340
743920	DAVIS-MEYER **Tongue Blade**	340
743925	DAVIS-MEYER **Tongue Blade**	340
743930	DAVIS-MEYER **Tongue Blade**	340
743935	DAVIS-MEYER **Tongue Blade**	340
743940	DAVIS-MEYER **Tongue Blade**	340



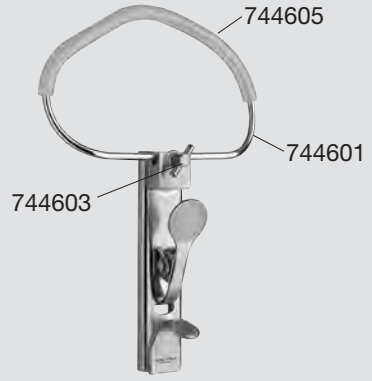
Spare Part



7362691
Y-Tube, for tongue blade, length 190 mm

8-11

Components / Spare Parts		Catalog page
744600	McIVOR **Mouth Gag**	346



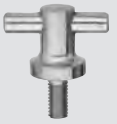
Spare Parts



744601
Frame



744602
Silicone Tube,
diameter 5.5 mm,
length 1 m



744603
Screw, for fixation
of frame



744605
Silicone Protection,
package of 10

Components / Spare Parts		Catalog page
744500	DAVIS-MEYER **Mouth Gag**	345
744510	DAVIS-MEYER **Mouth Gag**	345





Spare Parts



5501135
Rubber Cap,
length 1 m

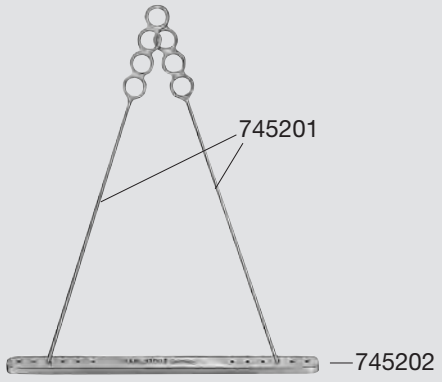


744501
Tooth Hook,
movable

8-11

Tongue Blades and Mouth Gags, Stroboscope

Components / Spare Parts		Catalog page
745200	DRAFFIN **Suspension Apparatus Bipod**	346
745201	**Rod,** with 4 rings (2 pieces)	
745202	**Base Plate**	



Components / Spare Parts		Catalog page
40160101	**PULSAR II Stroboscope Set**	513
40160120	**PULSAR II Stroboscope,** power supply 100 – 240 V, 50/60 Hz	
400 A	**Mains Cord,** length 300 cm	
40160021	**LED Stroboscopy Light Source**	
40160032	**Footswitch**	
40160030	**Contact Sound Microphone,** with clip	



Components / Spare Parts		Catalog page
40150001	**KARL STORZ µ-PULSAR,** for laryngeal stroboscopy	515
40150020	**KARL STORZ µ-PULSAR,** basic unit for use with Battery Charger **40** 1500 30	
826300	**Leather Bag for µ-PULSAR**	



40150020

8-11

Flexible Endoscopes

Rhino-Pharyngo-Laryngo-Fiberscope, Adaptor for Two-Way Stopcock

Components / Spare Parts		Catalog page
11001 RD	**Rhino-Laryngo-Fiberscope,** 3.5 x 340 mm	248, 508
11001 UD	**Rhino-Pharyngo-Laryngo-Fiberscope,** 2.3 x 230 mm	508
11101 RP	**Rhino-Pharyngo-Laryngo-Fiberscope,** 3.5 x 300 mm	248, 508
11101 SK	**Rhino-Laryngo-Fiberscope,** 2.5 x 270 mm	248, 508
11101 SP	**Rhino-Laryngo-Tracheo-Fiberscope,** 2.5 x 370 mm	248, 508



Spare Parts

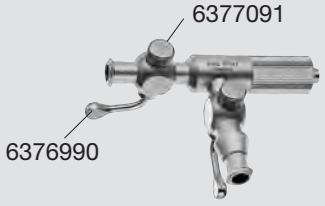


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
6927691	**Adaptor for Two-Way Stopcock,** for 11001 RD	–



Spare Parts



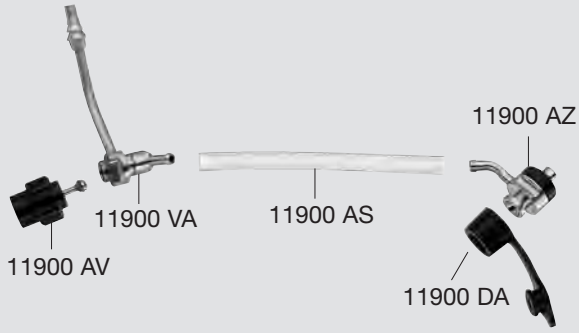
6376990
Stopcock, for
irrigation connector



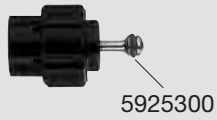
6377091
Spring Cap

8-11

Components / Spare Parts		Catalog page
11900 AE	**Suction Unit,** set for Video Bronchoscopes 11900 AP and 11900 BP	624
11900 AV	**Suction Valve**	
11900 VA	**Valve Adaptor**	
11900 AS	**Connecting Cable,** package of 10	
11900 AZ	**Suction Cylinder**	
13991 DA	**Cap,** package of 10	



Components / Spare Parts		Catalog page
11900 AV	**Suction Valve**	–



Spare Part



5925300
O-Ring, for suction valve, small, red, 2 x 1.5 mm

Components / Spare Parts		Catalog page
11001 BI	**Broncho-Fiberscope**	692
11001 BN	**Broncho-Fiberscope**	628
11002 BD	**Broncho-Fiberscope**	628
11003 BC	**Broncho-Fiberscope**	628
11004 BC	**Broncho-Fiberscope**	628
11004 BI	**Broncho-Fiberscope**	692
11005 BC	**Broncho-Fiberscope**	628
11009 BC	**Broncho-Fiberscope**	628
11009 BI	**Broncho-Fiberscope**	692



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
20045001-EN	**TELE PACK X**	246, 506, 626
20040240US	**USB Silicone Keyboard,** with touchpad, US character set	
20040280	**KARL STORZ USB Flash Drive,** 4 GB	
400 F	**Mains Cord,** length 300 cm	
400 B	**Mains Cord,** US version	



8-11

Components / Spare Parts		Catalog page
8700 CP	**Tele-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°	523, 682
8700 DKA	**Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°	516
8707 DA	**Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°	516
8707 DP	**Tele-Laryngo-Pharyngoscope,** with integrated HOPKINS® lateral telescope 90°	523, 682
8700 CKA	BENJAMIN **Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°	517
8705 CKA	BENJAMIN **Slimline Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°	517
8706 CA	**Strobo-Laryngoscope,** with integrated HOPKINS® lateral telescope 70°	517



Spare Parts

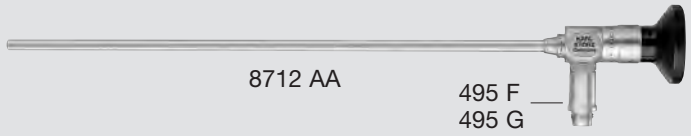


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
8712 AP	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	522, 683
8712 BP	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	522, 683
8712 CP	**HOPKINS® II Lateral Telescope 70°, enlarged view**	522, 683
8711 AP	**HOPKINS® Straight Forward Telescope 0°**	522, 683
8710 AP	**HOPKINS® Straight Forward Telescope 0°**	522, 683
8710 AGA	**HOPKINS® Straight Forward Telescope 0**	524, 676
8711 AGA	**HOPKINS® Straight Forward Telescope 0°, enlarged view**	524, 676
8575 AV	**HOPKINS® Straight Forward Telescope 15°**	529, 540
10005 AA	**HOPKINS® II Straight Forward Telescope 0°, enlarged view**	591, 617, 642, 653
10005 BA	**HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**	591, 642



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
25320001	**UNIMAT® 30, Suction Pump Set,** 230 VAC	636
25320020	**UNIMAT® 30,** suction pump, power supply 230 VAC, 50/60 Hz	
25320080	**Bacterial Filter**	
25320081	**Secretion Bottle,** 2 l	
25320082	**Bottle Cap,** with grip	
25320083	**Connecting Tube,** short	
25320084	**Patient Tube**	
25320085	**Overflow Case**	
400 A	**Mains Cord,** length 300 cm	
mtp*	**VACUsafe Promotion Pack Suction**	



25320020
25320020C

25320001C	**UNIMAT® 30, Suction Pump Set,** 115 VAC	
25320020C	**UNIMAT® 30,** suction pump, power supply 115 VAC, 50/60 Hz	
25320080	**Bacterial Filter**	
25320081	**Secretion Bottle,** 2 l	
25320082	**Bottle Cap,** with grip	
25320083	**Connecting Tube,** short	
25320084	**Patient Tube**	
25320085	**Overflow Case**	
400 A	**Mains Cord,** length 300 cm	
mtp*	**VACUsafe Promotion Pack Suction**	

Spare Parts

Spare Part for 25320020



1069400
Mains Fuse,
T 0.63 A, L 250 V

Spare Part for 25320020C

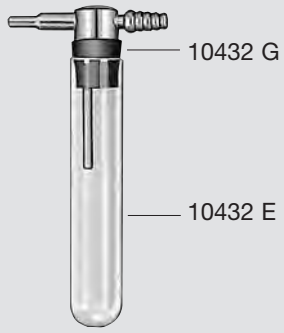


1069500
Mains Fuse,
T 1.6 A, L 250 V

8-11

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components / Spare Parts		Catalog page
10432 N	**Aspirator**	637, 664
10432 T	**Aspirator**	637, 664



Spare Parts



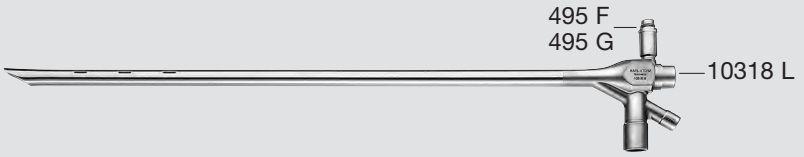
10432 G
Rubber Seal



10432 E
Spare Glass

8-11

Components / Spare Parts		Catalog page
10318 B	**Universal Bronchoscope**	638
10318 C	**Universal Bronchoscope**	638
10318 D	**Universal Bronchoscope**	638



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



10318 L
Fiber Optic Light Carrier,
for bronchoscopes

Components / Spare Parts		Catalog page
10315 P	FLUVOG **Adaptor**	638



Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts		Catalog page
10315 N	**Rubber Telescope Guide**	638



Spare Part



6127590
Sealing Cap, (50/4)

Components / Spare Parts		Catalog page
10318 S	**Instrument Guide**	589, 638-641



Spare Part



27550 C
Sealing Cap, drill hole
diameter 1.2 mm

8-11

Components / Spare Parts		Catalog page
10101 FA	**Prismatic Light Deflector**	544, 546, 589, 591, 599, 602, 639-642, 651-652



Spare Part



3430890
Knurled Cap

Components / Spare Parts		Catalog page
10314 P	FLUVOG **Adaptor**	589, 591, 639-642



Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts		Catalog page
10314 BN	**Rubber Telescope Guide**	589, 639-641



Spare Part



6127590
Sealing Cap, (50/4)

8-11

Components / Spare Parts — Catalog page

10101 HA **Prismatic Light Deflector** –



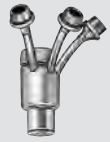
Spare Part



3430890
Knurled Cap

Components / Spare Parts — Catalog page

10317 EF **Insert Sheath** –



Spare Parts



27021 Y
Sealing Cap



27550 A
Sealing Cap, drill hole diameter 0.8 mm

Components / Spare Parts — Catalog page

10317 EL **Insert Sheath** –



Spare Parts



27021 Y
Sealing Cap

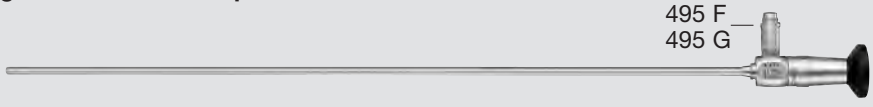


27550 A
Sealing Cap, drill hole diameter 0.8 mm

Components / Spare Parts — Catalog page

10320 AA	**HOPKINS® Straight Forward Telescope 0°**	643
10320 BA	**HOPKINS® Forward-Oblique Telescope 30°**	643
10320 DA	**HOPKINS® Lateral Telescope 90°**	643
10328 AA	**HOPKINS® Straight Forward Telescope 0°**	645
10017 AA	**HOPKINS® II Straight Forward Telescope 0°**	652
10018 AA	**HOPKINS® Straight Forward Telescope 0°**	653
10324 BA	**HOPKINS® Forward-Oblique Telescope 30°**	653
10023 ABA	**HOPKINS® Straight Forward Telescope 0°**	653

495 F
495 G



Spare Parts



495 F
Receptacle,
diameter 9 mm, for Wolf fiber optic light cable

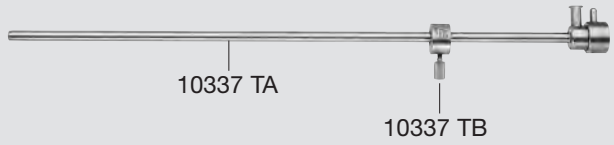


495 G
Screw Base,
for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

3-13

Optical Intubation Tracheoscope, TONN **Stent Applicator**

Components / Spare Parts		Catalog page
10337 T	**Optical Intubation Tracheoscope,** GRONINGEN model	591, 642
10337 TA	**Sheath,** for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA	
10337 TB	**Distance Ring,** with fixation screw for length adjustment of the endotracheal tubes	



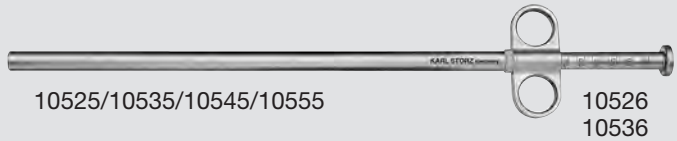
Components / Spare Parts	Catalog page
TONN **Stent Applicator**	649



10521/10522/10523
10531/10532/10533



10524/10534/10544/10554



10525/10535/10545/10555

10526
10536
10546
10556

TONN **Stent Applicator**, color code:	**10520** blue	**10530** red	**10540** green	**10550** white
Basic Block	10521	10531	10521	10521
Folding System	10522	10532	10542	10552
Clamping Rod	10523	10533	10523	10523
Loading Rod	10524	10534	10544	10554
Introducer Tube, with 2-ring handle	10525	10535	10545	10555
Pusher	10526	10536	10546	10556

8-11

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog page

10338 P FLUVOG **Adaptor** — 651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts — Catalog page

10338 N **Rubber Telescope Guide** — 602, 651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts — Catalog page

10338 S **Guide Piece** — 651-652



Spare Part



27550 C
Sealing Cap, drill hole diameter 1.2 mm

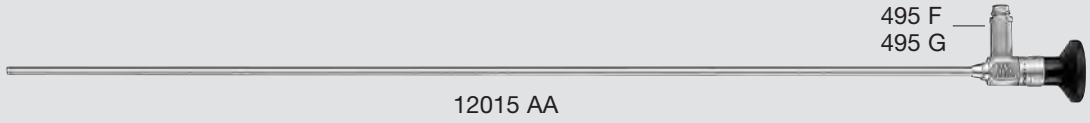
8-11

Esophagoscopes

HOPKINS® Telescopes and Miniature Straight Forward Telescope

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
12015 AA	**HOPKINS® Straight Forward Telescope 0°**	600
10324 AA	**HOPKINS® Straight Forward Telescope 0°**	603, 653
10020 ATA	**HOPKINS® Straight Forward Telescope 0°**	604, 653
10030 AA	**Miniature Straight Forward Telescope 0°**	605, 657



12015 AA

Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

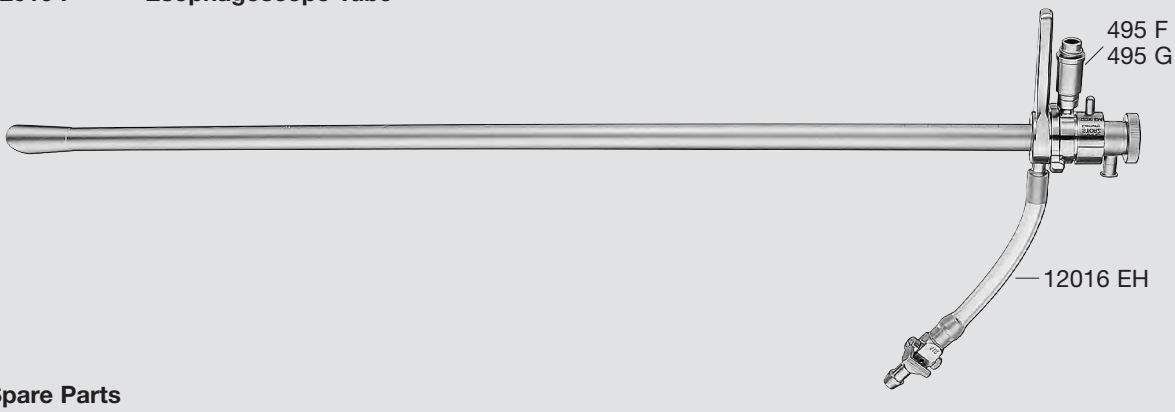
3-13

Esophagoscopes

Esophagoscope Tubes

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
12016 E	**Esophagoscope Tube**	600
12016 F	**Esophagoscope Tube**	–



Spare Parts

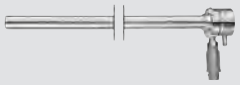


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

Spare Part for 12016 E



12016 EM
Fiber Optic Light Carrier

Spare Part for 12016 F



12016 FM
Fiber Optic Light Carrier

Spare Part for 12016 E



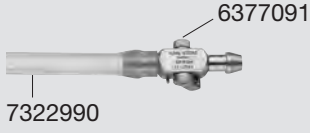
12016 EF
Esophagoscope Tube,
size 11

Spare Part for 12016 F



12016 FF
Esophagoscope Tube,
size 12

Components / Spare Parts		Catalog page
12016 EH	**Stopcock, with tube,** for Esophagoscope Tube 12016 E	–



Spare Parts



6871191
Stopcock



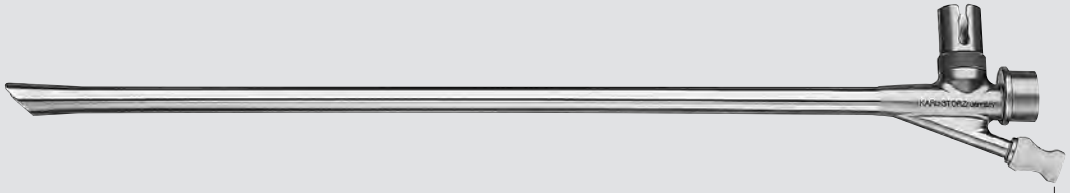
7322990
Tube



6377091
Spring Cap

8-11

Components / Spare Parts		Catalog page
12030 A	**Esophagoscope Tube**	602
12030 AL	**Esophagoscope Tube**	–
12030 B	**Esophagoscope Tube**	602
12030 C	**Esophagoscope Tube**	602
12030 F	**Esophagoscope Tube**	602
12030 G	**Esophagoscope Tube**	602



6573890

Spare Part



6573890
Sealing Cap

Components / Spare Parts		Catalog page
10101 FA	**Prismatic Light Deflector**	544, 546, 589, 591, 599, 602, 639-642, 651-652



Spare Part



3430890
Knurled Cap

Components / Spare Parts		Catalog page
12070	**Handle,** for esophagoscopes 12060 AX – T	599



6988190

Spare Part

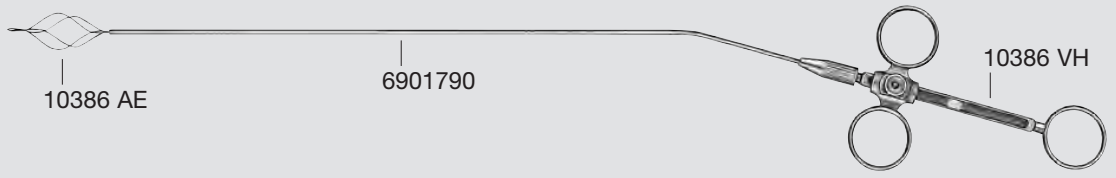


6988190
Knurled Screw

8-11

Foreign Body Baskets

Components / Spare Parts	Catalog page
10386 AL **Foreign Body Basket**	612, 665



Spare Parts



10386 AE
Foreign Body Basket,
without handle,
length 55 cm

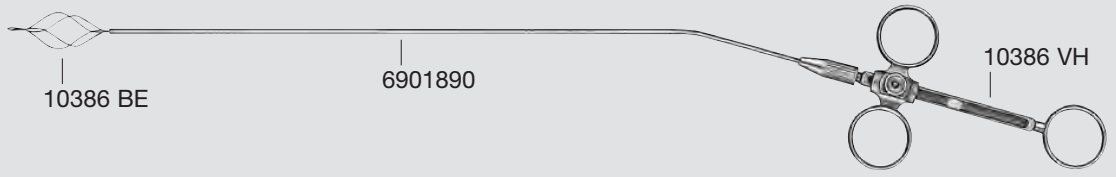


6901790
Guide Tube



10386 VH
Three-ring Handle

Components / Spare Parts	Catalog page
10386 B **Foreign Body Basket**	612, 665



Spare Parts



10386 BE
Foreign Body Basket,
without handle,
length 35 cm



6901890
Tube

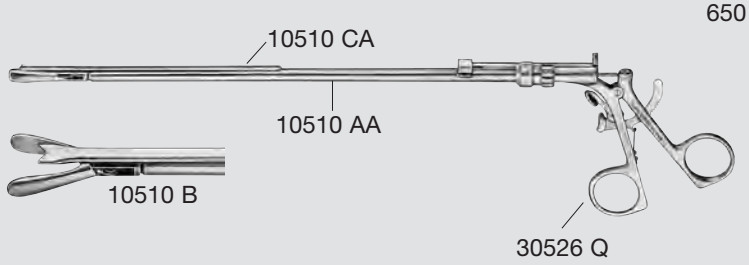


10386 VH
Three-ring Handle

8-11

FREITAG **Stent Forceps**

Components / Spare Parts		Catalog page
10510 N	FREITAG **Stent Forceps**	650
30526 Q	**Handle,** with ratchet	
10510 AA	**Outer Sheath**	
10510 B	**Forceps Insert**	
10510 CA	**Pusher**	



Components / Spare Parts		Catalog page
10510 AA	**Outer Sheath**	–



Spare Parts

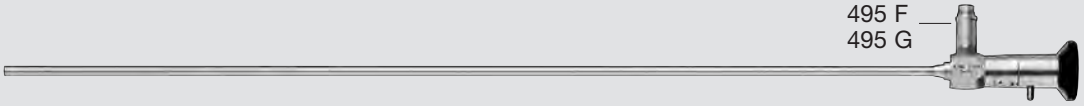


7909890
Halfround Plate



7944790
Silicone Ring

Components / Spare Parts		Catalog page
10320 AP	**HOPKINS® Straight Forward Telescope 0°**	697
10320 BP	**HOPKINS® Forward-Oblique Telescope 30°**	697
10320 DP	**HOPKINS® Lateral Telescope 90°**	697



Spare Parts



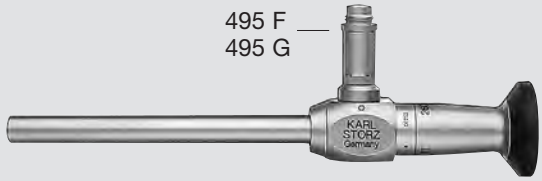
495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

3-13

Components / Spare Parts	Catalog page
20916020 VITOM® 25 Telescope 0°	735



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
102201 B	**Transformer**	–
102201 C	**Transformer**	–



Spare Parts



2027290
Fuse, for secondary circuit



400 A
Mains Cord,
length 300 cm

Spare Parts for 102201 B



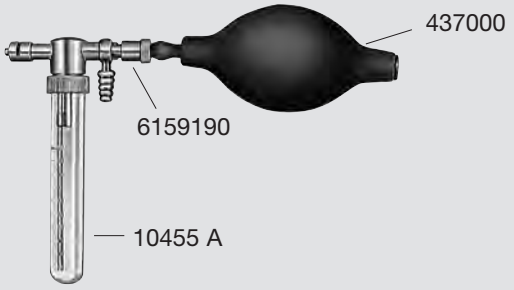
2026890
Mains Fuse

Spare Parts for 102201 C



2054090
Mains Fuse

Components / Spare Parts		Catalog page
10434	HUZLY **Aspirator and Bronchus Irrigator**	664



Spare Parts



10455 A
Graduated Container,
autoclavable



437000
Rubber Bulb

8-11

Components / Spare Parts		Catalog page
826201	**ENT Diagnosis Set,** for outpatient basic ENT examinations	398



826200	**Leather Bag for ENT Diagnosis Set,** with divided main compartment and 2 detachable side pockets
138700	**Nystagmus Spectacles,** small model without illumination
826210	**LED Penlight,** burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)
126100	**Tuning Fork,** A^1-440, with stand, small model
740116	**Tongue Depressor,** wooden, width 19 mm, length 16 cm, package of 100

8-11

Components / Spare Parts	Catalog page
119500 HAWKE **Pneumatic Adaptor**	16



Spare Parts



119501
Cone



6127390
Sealing Cap, (50/2.6)



119651
Rubber Bulb,
without cone

Components / Spare Parts	Catalog page
119650 **Rubber Bulb**	20



Spare Parts



119651
Rubber Bulb,
without cone



600005
Record Outer Cone

8-11

Components / Spare Parts		Catalog page
121300	HEINE **Otoscope**	19, 398
121310	**Otoscope Head,** fiber optic light transmission incorporated	
121302	**Ear Speculum,** outer diameter 2.5 mm	
121303	**Ear Speculum,** outer diameter 3 mm	
121304	**Ear Speculum,** outer diameter 4 mm	
121305	**Ear Speculum,** outer diameter 5 mm	
121311	**Battery Handle**	
121306	**1.5 Volt Battery,** type R 14 S	
63	**Spare Lamp,** no. 63, 2.5 V	
121320	HEINE **Otoscope Head**	
121302	**Ear Speculum,** outer diameter 2.5 mm	
121303	**Ear Speculum,** outer diameter 3 mm	
121304	**Ear Speculum,** outer diameter 4 mm	
121305	**Ear Speculum,** outer diameter 5 mm	
63 A	**Spare Lamp,** no. 63 A, 3.5 Volt	



Components / Spare Parts		Catalog page
125501	**Tuning Fork,** C^2-512	23
125601	**Tuning Fork,** C^3-1024	23
126000	**Tuning Fork,** A^1-440	23
126100	**Tuning Fork,** A^1-440, small model	23



Spare Part



126001
Stand

Components / Spare Parts		Catalog page
130000	BARANY **Noise Apparatus**	23



Spare Part



130001
Ear Olive

8-11

Components / Spare Parts		Catalog page
11301 D4	**Battery Light Source LED for Endoscopes**	17, 261, 398-399, 635



094108 B

Spare Parts



094108 B
Cover, for Battery Box 094108



121306 P
Photo Battery, lithium, 3 V, CR 123 A

Components / Spare Parts		Catalog page
138805	FRENZEL **Nystagmus Spectacles**	24



Spare Parts



138806
Rubber Band, black, with 2 fasteners



138964
Spare Lamp, 4 V



138807
Glare Shield, black

Components / Spare Parts		Catalog page
138905	FRENZEL **Nystagmus Spectacles**, battery version	24



Spare Parts



121306
1.5 Volt Battery, Type R 14 S



138807
Glare Shield, black



138806
Rubber Band, black, with 2 fasteners

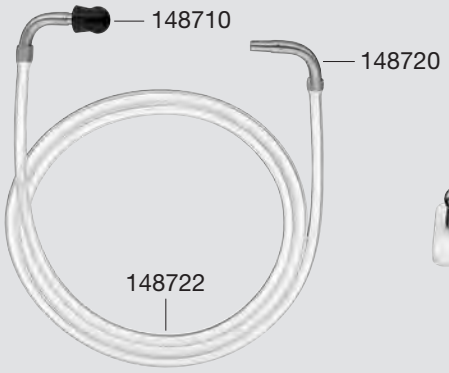


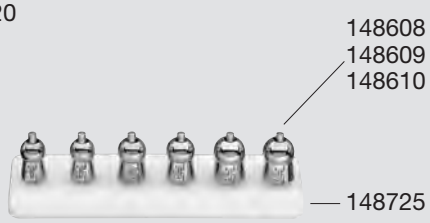
138964
Spare Lamp, 4 V

8-11

Components / Spare Parts — Catalog page

148500 JANSEN **Diagnostic Tube** — 25





Spare Parts



148608
Ear Tip,
diameter 8 mm



148609
Ear Tip,
diameter 9 mm



148610
Ear Tip,
diameter 10 mm



148710
Ear Tip, black,
diameter 10 mm



148720
Angle



148722
Tube,
length 100 cm



148725
Stand,
for 148500

Components / Spare Parts — Catalog page

149320 KABIERSKE **Powder Blower** — 25



Spare Parts



149307
Valve Ball, only

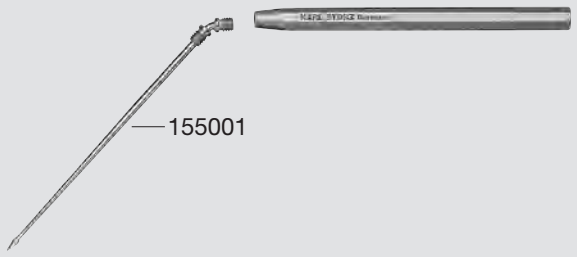


149324
Replacement Glass,
brown, autoclavable

8-11

Components / Spare Parts — Catalog page

155000 **Ear Knife,** angular — 27



Spare Part



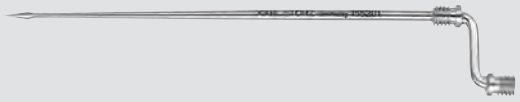
155001
Ear Knife, without handle

Components / Spare Parts — Catalog page

155200 **Ear Knife,** bayonet-shaped — 27



Spare Part

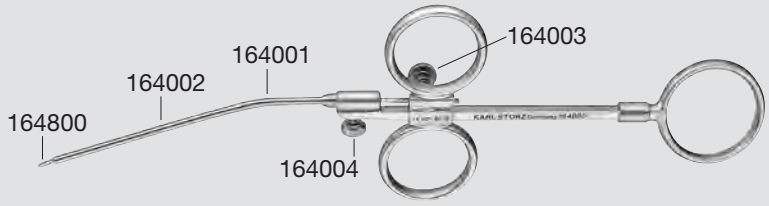


155201
Ear Knife, without handle

8-11

Components / Spare Parts — Catalog page

164000 KRAUSE **Ear Snare** –



Spare Parts

164001
Pull Wire



164002
Attachment Tube,
with pull wire



164003
Set Screw,
for attachment tube



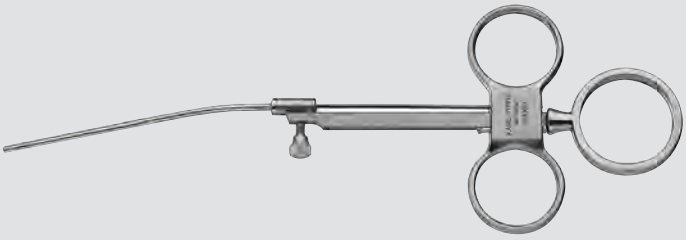
164004
Set Screw,
for pull wire M 1.9



164800
Ear Snare Wire,
package of 25

Components / Spare Parts — Catalog page

164100 KRAUSE **Ear Snare** 28



Spare Parts

164101
Traction Wire



164102
Guide Tube,
with traction wire



164103
Fixation Screw



164800
Ear Snare Wire,
package of 25

8-11

Components / Spare Parts — Catalog page

174700 **Metal Mallet** — 31, 130



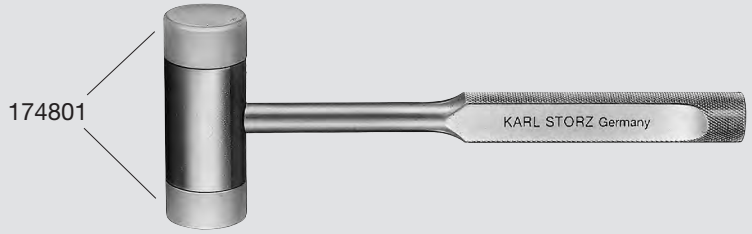
Spare Part



174701
Plastic Mallet Head

Components / Spare Parts — Catalog page

174800 **Metal Mallet** — 31, 130



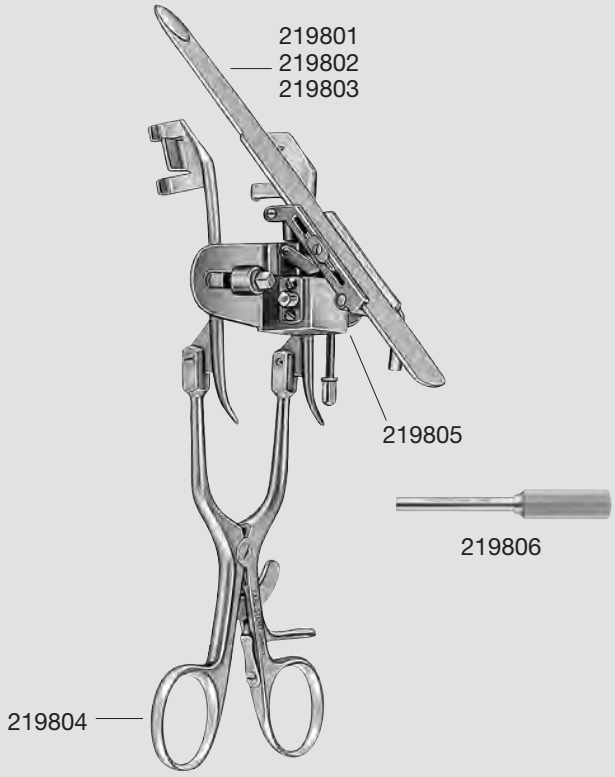
Spare Part



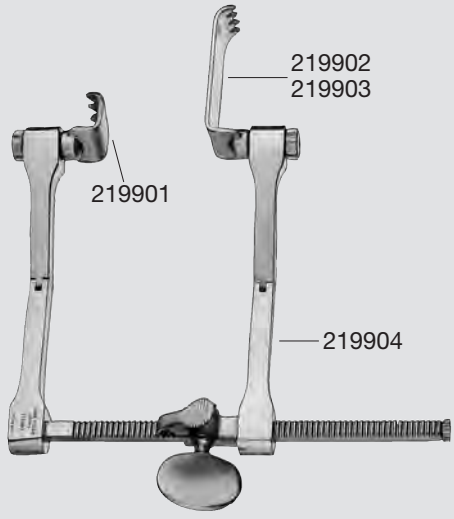
174801
Plastic Replacement

8-11

Components / Spare Parts		Catalog page
219800	FISCH **Dura Retractor,** length 18 cm	44, 195
219801	**Spatula,** straight, length 12 cm	
219802	**Spatula,** straight, length 15 cm	
219803	**Spatula,** curved, length 15 cm	
219804	**Retractor,** length 18 cm	
219805	**Spatula Attachment,** for adjustment of spatulas	
219806	**Wrench,** for spatula attachment	



Components / Spare Parts		Catalog page
219900	FISCH **Glomus Retractor** (infratemporal fossa retractor)	44
219901	**Retractor Blade,** short	
219902	**Retractor Blade,** long	
219903	**Retractor Blade,** long and slim, with drill hole	
219904	**Retractor Frame,** without blades	



8-11

Miscellaneous

Wire Bending Die, Ventilation Drainage Tube Inserter, Cartilage Cutting Block

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog page

227800 SCHUKNECHT **Wire Bending Die** — 59



Spare Parts



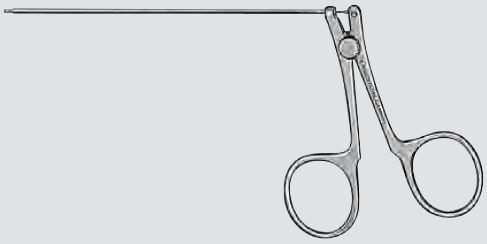
227801
Spare Protective Frame



227802
Die, with bending table

Components / Spare Parts — Catalog page

230000 **Ventilation Drainage Tube Inserter** — 67



Spare Parts

230001
Spare Stylet,
diameter 1 mm

230002
Spare Stylet,
diameter 1.2 mm

Components / Spare Parts — Catalog page

231020 MILEWSKI **Cartilage Cutting Block** — 64

231022 **Cutting Block,** plastic, white, **autoclavable,** size 120 x 45 x 15 mm

231024 **Frame,** metal, U-shaped, with 2 pins to hold the templates

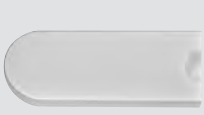
231026 **Template for Ear Cartilage,** with 5 round holes 5, 7, 8, 9 and 10 mm diameter and 2 oval holes 9 x 11 mm and 12 x 14 mm, thickness 0.5 mm

231028 **Same,** thickness 1 mm

231030 **Template for Nasal Cartilage,** with 3 rectangular holes 5.5 x 30 mm, 15 x 15 mm and 10 x 30 mm, thickness 1 mm

231032 **Same,** thickness 0.5 mm

231035 **Stamp,** cylindrical, with handle, to press the cartilage on the cutting block



231022



231024



231026



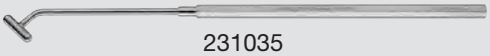
231028



231030



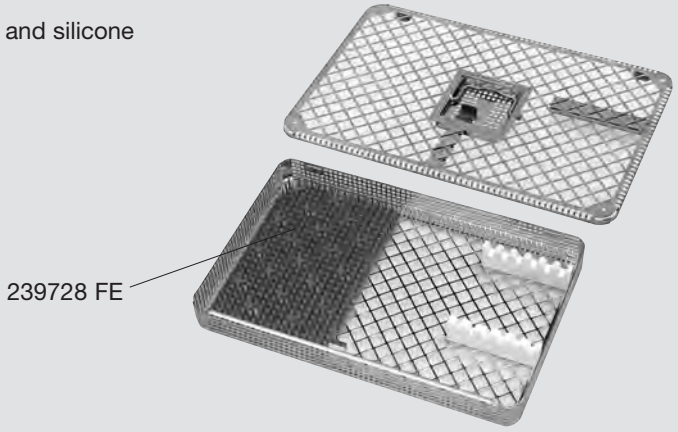
231032



231035

8-11

Components / Spare Parts		Catalog page
239728 F	**Metal Tray**	66
239728 FA	**Base with Lid,** with holders and silicone bridges	
239728 FE	**Silicone Mat**	



Components / Spare Parts		Catalog page
239000	**Metal Case**	68
239075	**Metal Case**	68



Spare Parts

Spare Part for 239000



239001
Filter, set of 5 pairs

Spare Part for 239075



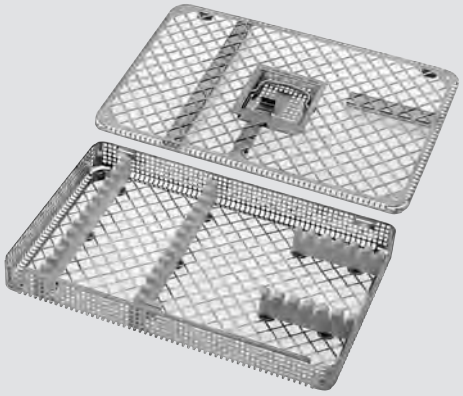
239076
Filter, set of 5 pairs

Components / Spare Parts		Catalog page
39780 A	**MiniSet Container,** with MicroStop®	70
39780 AB	**Base**	
39785 AA	**Lid**	
39760 A	**Microbiological Barrier,** with MicroStop®	

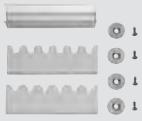


Additional accessories for cleaning and sterilization see catalog HYGIENE

Components / Spare Parts		Catalog page
239728	**Metal Tray**	70



Spare Parts

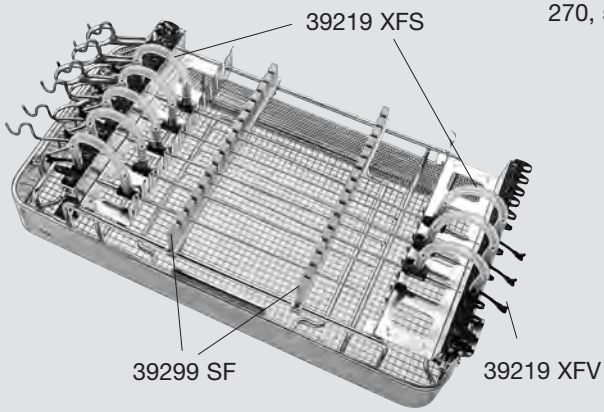


239728-1
Spare Part Set, consisting of 2 short bridges, silicone leaflet valves and assembly materials

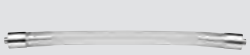


239728-2
Spare Part Set, consisting of 2 long bridges, silicone leaflet valves and assembly materials

Components / Spare Parts		Catalog page
39219 XF	**Instrument Rack**	270, 554
39219 XFB	**Instrument Rack**	270, 554



Spare Parts



39219 XFS
Irrigation Tube, with two LUER-Lock tube connectors, length 140 mm



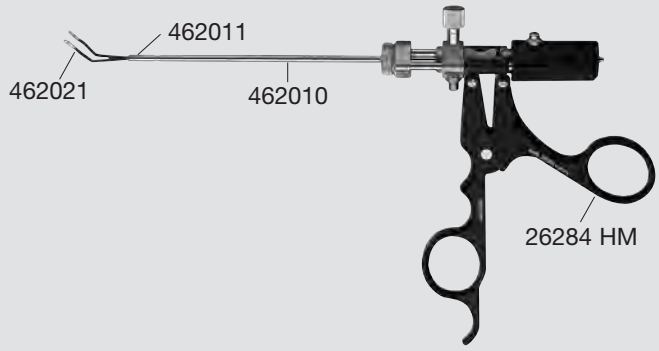
39299 SF
Aluminium Silicone Holder, for ENT-Instruments, **Sinu***FIT*® and **Laryngo***FIT*®, 15 positions



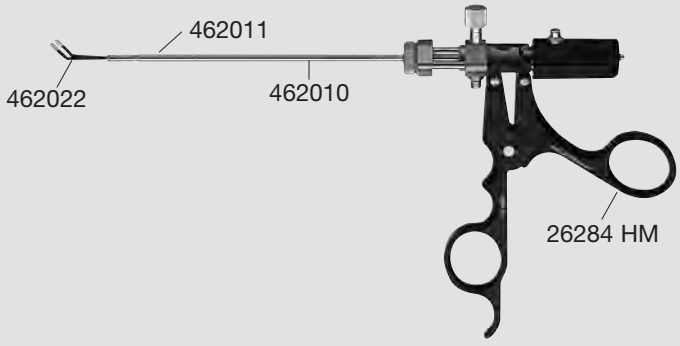
39219 XFV
Sealing Cap, package of 15, for multi-port bridge

8-11

Components / Spare Parts		Catalog page
462020	**TAKE-APART®** CASTELNUOVO **Bipolar Forceps**	289, 403
26284 HM	**Bipolar Ring Handle**	
462010	**Outer Sheath**	
462011	**Inner Sheath**	
462021	**Forceps Insert**	



462023	**TAKE-APART® Bipolar Forceps**	
26284 HM	**Bipolar Ring Handle**	
462010	**Outer Sheath**	
462011	**Inner Sheath**	
462022	**Forceps Insert**	



Components / Spare Parts		Catalog page
26284 HM	**TAKE-APART® Bipolar Ring Handle,** for 462020 and 462023	–



Spare Part



6011590
Plug, for LUER-Lock connector

8-11

Components / Spare Parts — Catalog page

436610 **Nasal Atomizer** — 113



Spare Part



10455 A
Graduated Container,
autoclavable

Components / Spare Parts — Catalog page

437520 DE VILBIS **Nasal Atomizer** — 113



Spare Part



149324
Replacement Glass,
brown, autoclavable

Components / Spare Parts — Catalog page

437600 DE VILBIS **Nasal Atomizer** — 113



Spare Part

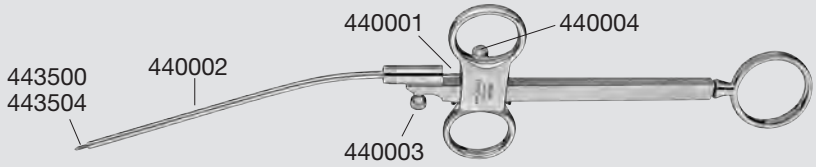


437601
Replacement Glass

8-11

Components / Spare Parts — Catalog page

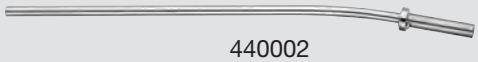
440000 KRAUSE **Nasal Snare** — 114



Spare Parts



440001
Traction Wire



440002
Guide Tube,
with traction wire



440003
Fixation Screw,
for Tube M 2.3



440004
Fixation Screw,
for Traction Wire M 2.5



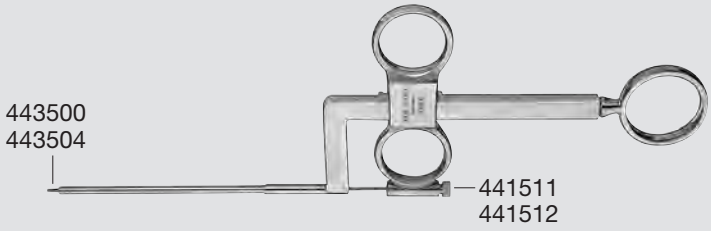
443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25

Components / Spare Parts — Catalog page

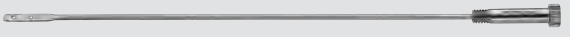
441510 LANGE **Nasal Snare** — 114



Spare Parts



441511
Traction Wire, with pin for bayonet lock mechanism, previous model



441512
Traction Wire, with thread, for use with Nasal Snare 441510, current model



443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



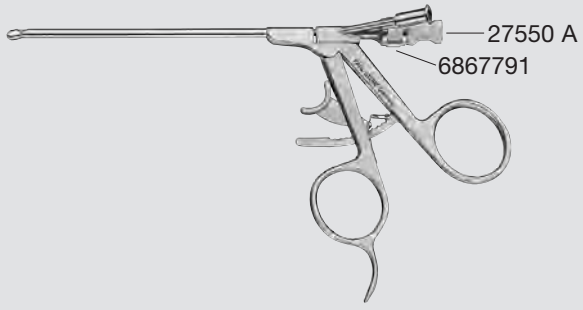
443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25

8-11

Components / Spare Parts		Catalog page
233250	DALCHOW-O'DONOGHUE **Retractor,** for cochlea implant operations	76
233250 A	**Retractor,** with ergonomic handle, cold light illumination, suction channel with cut-off hole, LUER, concave blade, 20 x 30 mm, length 19.5 cm	
233250 B	**Fiber Optic Light Carrier,** with suction tube, length 18.5 cm	



Components / Spare Parts		Catalog page
461000	LEUNIG-GREVERS **LASER Application Instrument**	262



Spare Parts



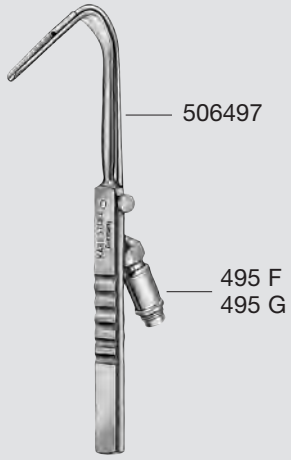
27550 A
Sealing Cap, drill hole diameter 0.8 mm



6867791
Knurled Screw Cap

8-11

Components / Spare Parts	Catalog page
506496 AUFRICHT **Nasal Retractor**	139



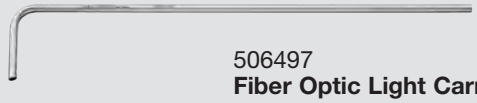
Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



506497
Fiber Optic Light Carrier

Components / Spare Parts	Catalog page
523900 COTTLE **Bone Crusher**	149



Spare Part



523901
Metal Clamp

Components / Spare Parts		Catalog page
525520	BEHRBOHM **Caliper**	152



Spare Parts



525523
Tip, with atraumatic pin, autoclavable, length 5 cm



525525
Holder, for sterile skin marker, autoclavable, length 5 cm

Components / Spare Parts		Catalog page
496500	**Surgical Handle,** for miniature blades	–



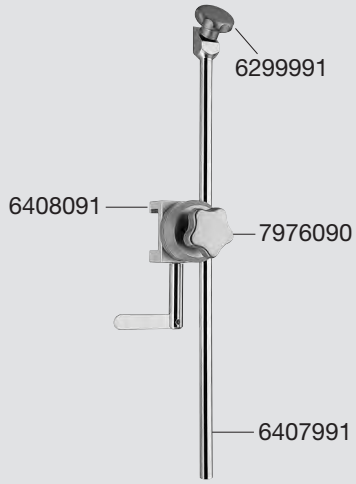
Spare Part



496501
Clamping Insert

8-11

Components / Spare Parts	Catalog page
723017 Rotating Clamp	110, 309



Spare Parts



6299991
Star Grip, small



6407991
Holding Rod,
without clamp

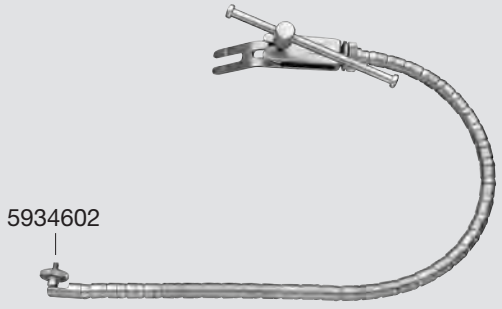


6408091
Rotating Clamp,
without rod



7976090
Star Grip, large

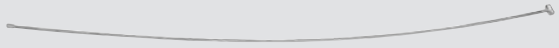
Components / Spare Parts	Catalog page
723018 Flexible Tension Arm	110, 309



Spare Parts



5934602
Knurled Nut



723018 Z
Bowden Wire

8-11

Components / Spare Parts		Catalog page
725000	HOPMANN **Uvula Retractor**	335



Spare Part



725001
Tube, with spherical metal ends

Components / Spare Parts		Catalog page
744800	NEGUS **Chest Support**	346
744801	NEGUS **Chest Support**	–

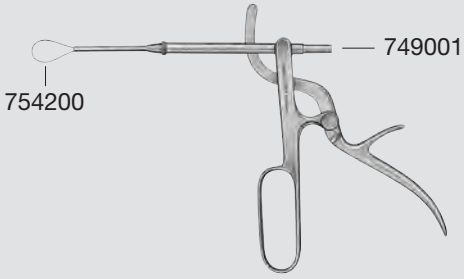


Spare Part



744805
Band, for fixation of chest supports

Components / Spare Parts		Catalog page
749000	TYDING **Tonsil Snare**	352



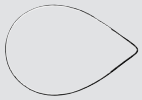
Spare Parts



749001
Traction Rod



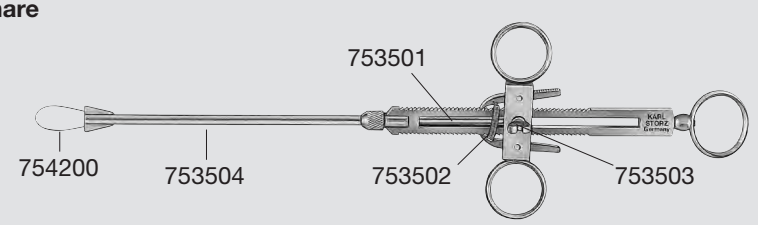
754300
Snare Wire,
diameter 0.4 mm, 10 m roll



754200
Wire Snare Loop,
stainless steel,
package of 100

8-11

Components / Spare Parts	Catalog page
753500 BRÜNINGS **Tonsil Snare**	356



Spare Parts



753501
Traction Rod



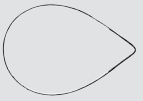
753502
Spiral Spring,
for ratchet lever



753503
Screw, for fixation
of traction rod



753504
Guide Tube, without
traction rod, with central
screw

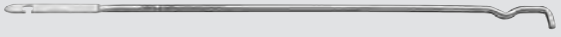


754200
Wire Snare Loop,
stainless steel,
package of 100

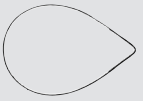
Components / Spare Parts	Catalog page
753700 EVES **Tonsil Snare**	356



Spare Parts

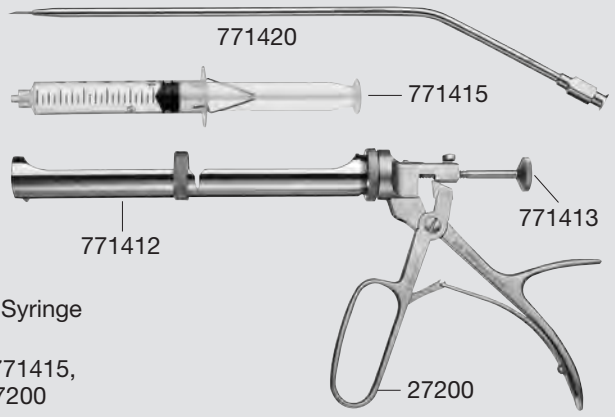


753701
Traction Rod



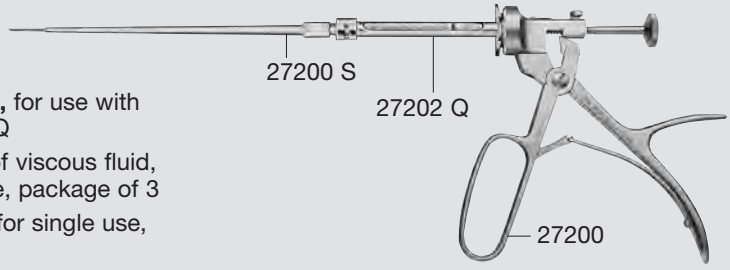
754200
Wire Snare Loop,
stainless steel,
package of 100

Components / Spare Parts		Catalog page
771410	PERETTI **High Pressure Syringe**, for fat injection	584



27200	**High Pressure Handle,** for use with Syringe Holder 771412
771412	**Syringe Holder,** for Plastic Syringe 771415, for use with High Pressure Handle 27200
771413	**Pusher,** for use with High Pressure Handle 27200 with Plastic Syringe 771415
771415	**Plastic Syringe,** spring-action, self-retaining, 10 ml, sterile, for single use, package of 25
771420	**Injection Cannula,** angular, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 0.8 mm, working length 20 cm, package of 3

Components / Spare Parts		Catalog page
771400	**High Pressure Syringe,** for viscous fluid injection	585



27200	**High Pressure Handle,** for use with Syringe Holder 27201 Q
27200 B	**Adaptor,** for injection of viscous fluid, for filling plastic syringe, package of 3
27200 P	**Plastic Syringe,** 1 ml, for single use, package of 100
27202 Q	**Syringe Holder,** for plastic syringe, package of 3
27200 S	**Injection Cannula,** LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3

Components / Spare Parts		Catalog page
27200	**High Pressure Handle,** for 771400 and 771410	–



Spare Part



5932200
Sealing Ring

8-11

Components / Spare Parts		Catalog page
8565 B	**Battery Handle,** 3.5 Volt	19
8565 BB	**Handle**	
8565 BG	**Rack**	
8565 BL	**Charger,** power supply 220 – 240 VAC	



8565 C	**Battery Handle,** 3.5 Volt	
8565 BB	**Handle**	
8565 BG	**Rack**	
8565 CL	**Charger,** power supply 115 VAC	

Components / Spare Parts		Catalog page
8565 BB	**Battery Handle,** 3.5 Volt	–



Spare Part



8565 E
Battery Cell

Components / Spare Parts		Catalog page
8565 BC	**Battery Handle,** 3.5 Volt, for 121320	–



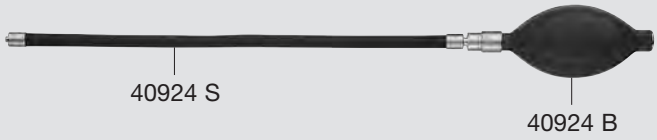
Spare Part



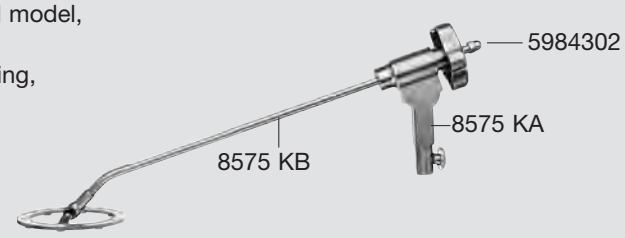
8565 BCE
Battery Cell, 3.5 Volt

8-11

Components / Spare Parts		Catalog page
40924	**Rubber Insufflation Bulb**	600
40924 B	**Rubber Bulb**	
40924 S	**Rubber Tube**	



Components / Spare Parts		Catalog page
8575 K	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model	536, 548, 616-617
8575 KA	**Laryngoscope Holder,** GÖTTINGEN model, with adjustment wheel	
8575 KB	**Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm	

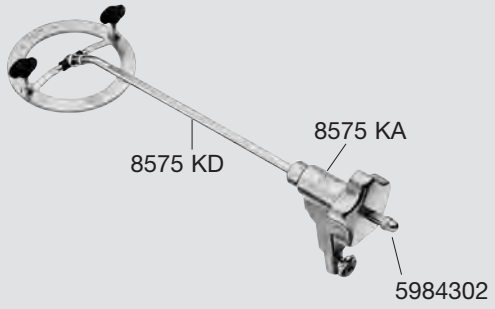


Spare Part



5984302
Cap Nut

Components / Spare Parts		Catalog page
8575 KC	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support**	548, 616-617
8575 KA	**Laryngoscope Holder,** GÖTTINGEN model, with adjustment wheel	
8575 KD	BENJAMIN-PARSONS **Support Rod,** movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm	



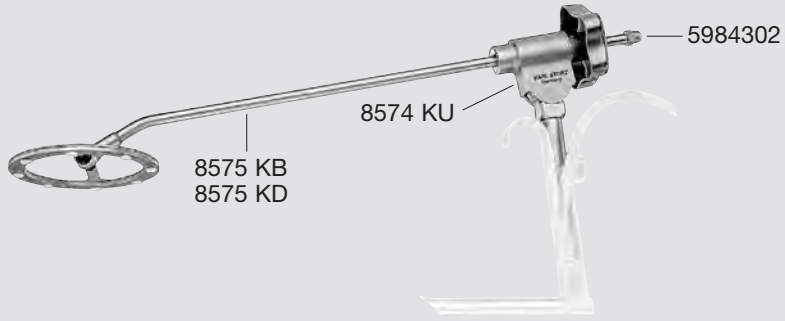
Spare Part



5984302
Cap Nut

8-11

Components / Spare Parts		Catalog page
8574 KW	BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support**	544, 546
8574 KU	**Laryngoscope Holder,** GÖTTINGEN model, with adjustment wheel	
8575 KD	BENJAMIN-PARSONS **Support Rod,** moveable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm	
8574 KT	**Laryngoscope Holder and Chest Support,** GÖTTINGEN model	
8574 KU	**Laryngoscope Holder,** with adjustment wheel	
8575 KB	**Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm	

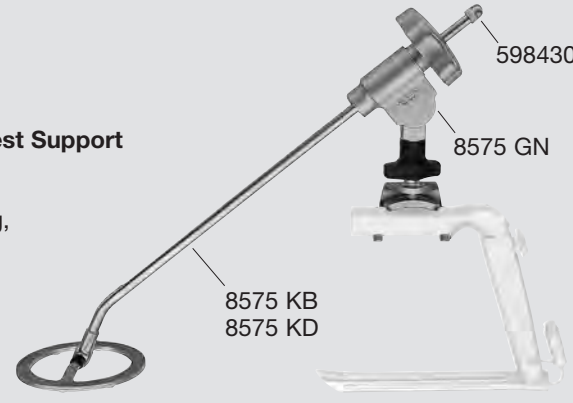


Spare Part



5984302
Cap Nut

Components / Spare Parts		Catalog page
8575 KW	LEWY **Laryngoscope Holder and Chest Support**	547
8575 GN	LEWY **Laryngoscope Holder**	
8575 KD	**Support Rod,** movable, with metal ring, diameter 12 cm, length 34 cm	
8575 KT	LEWY **Laryngoscope Holder and Chest Support**	
8575 GN	LEWY **Laryngoscope Holder**	
8575 KB	**Support Rod,** movable, with metal ring, diameter 9 cm, length 34 cm	



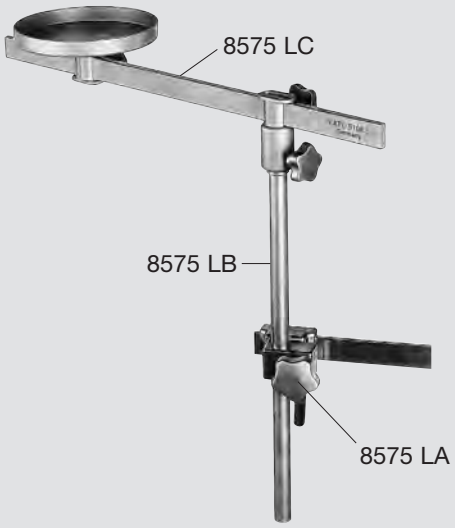
Spare Part



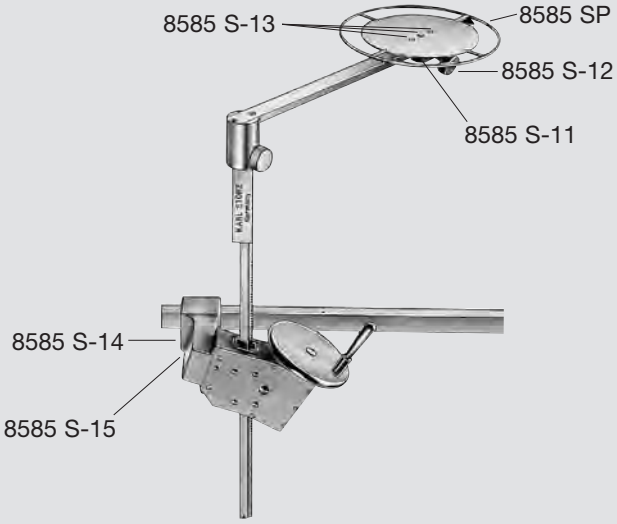
5984302
Cap Nut

8-11

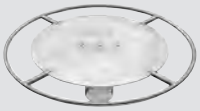
Components / Spare Parts		Catalog page
8575 L	**Support Table,** GÖTTINGEN model	549
8575 LC	**Swivel Arm,** with movable plate	
8575 LB	**Holding Rod,** for height adjustment	
8575 LA	**Attachment Blocks,** can be mounted on operation table equipped with standard sliding rail 25 x 10 mm	



Components / Spare Parts		Catalog page
8585 S	**Chest Support,** LÜBECK model	550



Spare Parts



8585 SP
Plate, with ring



8585 S-11
Slide Block,
for Plate 8585 SP and Fixation Screw 8585 S-12



8585 S-12
Fixation Screw, serrated, M8 x 24, for the fixation of the support plate at the swivel arm



8585 S-13
Screw, for fixating Plate 8585 SP to Slide Block 8585 S-11, set of 3



8585 S-14
Clamp, for Chest Support 8585 S, for fixation of the chest support at the OR table



8585 S-15
Fixation Screw

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Components / Spare Parts — Catalog page

254000 **Oscillating Micro Saw** 91



Spare Parts



254020
Fork Wrench



254021
Swivel Nut

Components / Spare Parts — Catalog page

254100 **Micro Sagittal Saw** 92



Spare Parts



254020
Fork Wrench



254021
Swivel Nut

Components / Spare Parts — Catalog page

254200 **Osseo Scalpel, Micro Saw** 92



Spare Parts



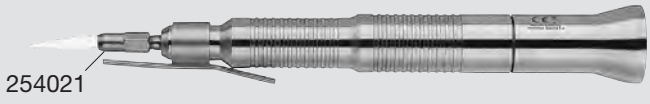
254020
Fork Wrench



254021
Swivel Nut

Components / Spare Parts — Catalog page

254300 **Micro Compass Saw** 93



Spare Parts



254020
Fork Wrench



254021
Swivel Nut

8-11

Motor Systems

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO, Universal Spray

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
40701601-1	**UNIDRIVE® S III ENT SCB**	82, 210
40701620-1	**UNIDRIVE® S III ENT with KARL STORZ-SCB**	
400 A	**Mains Cord**	
20711680	**Irrigator Rod**	
20016630	**Two-Pedal Footswitch,** two-stage, with proportional function	
20711640	**Silicone Tubing Set,** for irrigation, sterilizable	
20711621	**Clip Set,** for use with silicone tubing set 20711640	
20090170	**SCB Connecting Cable,** length 100 cm	
031131-03*	**Single Use Tubing Set,** sterile, package of 3	



40701620-1

40701401	**UNIDRIVE® S III ECO**	
40701420	**UNIDRIVE® S III ECO,** power supply 100 – 120, 230 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
20016630	**Two-Pedal Footswitch,** two-stage, with proportional function	
20711640	**Silicone Tubing Set,** for irrigation, sterilizable	
20711621	**Clip Set,** for use with silicone tubing set 20711640	
031131-03*	**Single Use Tubing Set,** sterile, package of 3	



40701420

Spare Parts



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10



2107890
Fuse Holder, for power supply socket

Components / Spare Parts		Catalog page
280053	**Universal Spray,** 6x 500 ml bottles	84, 212
280053 B	**Universal Spray,** 500 ml	
280053 C	**Spray Nozzle**	



280053 B



280053 C

3-13

* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components / Spare Parts		Catalog page
41201 KN	**Shaver Blade**	217
41201 KK	**Shaver Blade**	217
41201 GN	**Shaver Blade**	217
41201 LN	**Shaver Blade**	217
41201 SN	**Shaver Blade**	217
41201 KSA	**Shaver Blade**	217
41201 KKSA	**Shaver Blade**	217
41201 KKSB	**Shaver Blade**	217
41201 LSA	**Shaver Blade**	217
41202 KN	**Shaver Blade**	218
41204 KKF	**Shaver Blade**	218
41204 KKB	**Shaver Blade**	218
41204 KKFA	**Shaver Blade**	218
41204 KKBA	**Shaver Blade**	218
41203 KNF	**Shaver Blade**	219
41203 KNB	**Shaver Blade**	219
41203 KKF	**Shaver Blade**	219
41203 KKB	**Shaver Blade**	219
41203 KKFA	**Shaver Blade**	219
41203 KKBA	**Shaver Blade**	219
41203 GNF	**Shaver Blade**	219
41203 GNB	**Shaver Blade**	219



Spare Part



5920820
O-Ring Set for ENT Shaver Attachments,
including:
5x O-Ring, 8 x 1 mm
1x O-Ring, 4 x 1 mm

Components / Spare Parts		Catalog page
41200 RA	**Cleaning Adaptor**	217-219
41200 RA1	**Cleaning Adaptor for Inner Blades**	
41200 RA2	**Cleaning Adaptor for Outer Blades**	



41200 RA1



41200 RA2

3-13

Components / Spare Parts		Catalog page
252570	**INTRA Drill Handpiece**	85
252573	**INTRA Drill Handpiece**	85
252590	**INTRA Drill Handpiece**	85
Spare Part		
	252510 **Irrigation Tube**	


252573

Components / Spare Parts		Catalog page
252571	**INTRA Drill Handpiece**	225
252574	**INTRA Drill Handpiece**	225
252591	**INTRA Drill Handpiece**	225
Spare Part		
	252511 **Irrigation Tube**	


252574

Components / Spare Parts		Catalog page
252572	**INTRA Drill Handpiece**	226
252575	**INTRA Drill Handpiece**	226
252592	**INTRA Drill Handpiece**	226
Spare Part		
	252512 **Irrigation Tube**	


252575

3-13

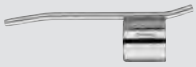
Components / Spare Parts — Catalog page

252680 **High-Speed Handpiece** — 97



252680

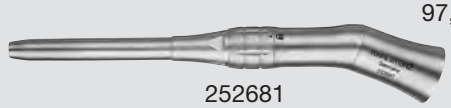
Spare Part



252610
Irrigation Tube

Components / Spare Parts — Catalog page

252681 **High-Speed Handpiece** — 97, 231



252681

Spare Part



252611
Irrigation Tube

Components / Spare Parts — Catalog page

252682 **High-Speed Handpiece** — 231



252682

Spare Part



252612
Irrigation Tube

Components / Spare Parts — Catalog page

252660 **High-Speed Handpiece** — 98
252690 **High-Speed Handpiece** — 98



252660

Spare Part



252614
Irrigation Tube

Components / Spare Parts — Catalog page

252661 **High-Speed Handpiece** — 98, 232
252691 **High-Speed Handpiece** — 98, 233



252661

Spare Parts



252615
Irrigation Tube

Components / Spare Parts — Catalog page

252662 **High-Speed Handpiece** — 232
252692 **High-Speed Handpiece** — 233



252662

Spare Part



252616
Irrigation Tube

Components / Spare Parts — Catalog page

252663 **High-Speed Handpiece** — 232



252663

Spare Part



252617
Irrigation Tube

Miscellaneous

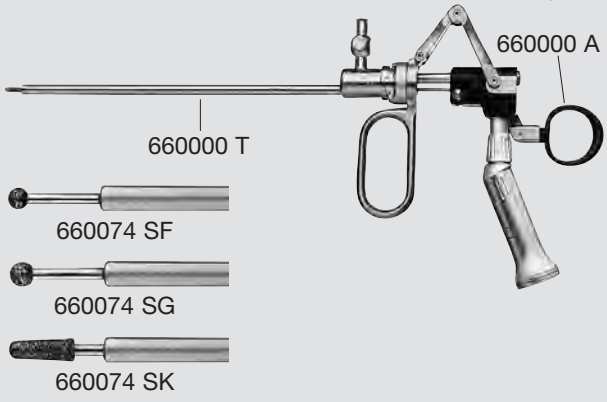
SCHMÄL **CARTCUT® Cartilage Cutter,**
STAMMBERGER-SACHSE **Intranasal Drill,**
BOWMAN **Lachrymal Probe, Training Model**

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog page
523950	SCHMÄL **CARTCUT® Cartilage Cutter**	150
523951	**Holding Device**	
523952	**Cleaning Adaptor**	
523954	**Holding-down Clamp**	
523956	**Knife,** 1 mm	
523958	**Knife,** 2 mm	



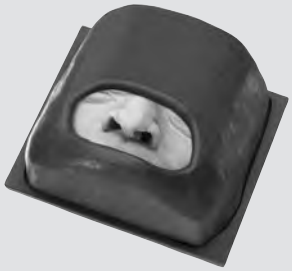
Components / Spare Parts		Catalog page
660000	STAMMBERGER-SACHSE **Intranasal Drill**	229, 317
660000 A	**Double Ring Sliding Handle,** for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece	
660000 T	**Guide Sheath,** outer diameter 5 mm, with irrigation stopcock	
660074 SF	**Diamond Abrador,** delicate, spherical, diameter 2.5 mm	
660074 SG	**Diamond Abrador,** delicate, spherical, diameter 3 mm	
660074 SK	**Diamond Abrador,** delicate, conical, from diameter 2.5 mm to diameter 3 mm	



Components / Spare Parts		Catalog page
634840	BOWMAN **Lachrymal Probe**	311, 315
745830	**Probe,** size 0000 – 000	
745800	**Probe,** size 00 – 0	
745802	**Probe,** size 1 – 2	



Components / Spare Parts		Catalog page
723128	**Training Model**	318
723128 A	**Section Plane 1: Front Plate**	
723128 B	**Section Plane 2: Turbinate/Septum**	
723128 C	**Section Plane 3: Maxillary Sinus**	
723128 D	**Section Plane 4: Ethmoidal Cells**	
723128 E	**Section Plane 5: Sphenoidal Sinus**	
723128 F	**Base Plate**	
723128 G	**Mask**	
723128 H	**Case**	
723128 K	**Documentation Atlas**	

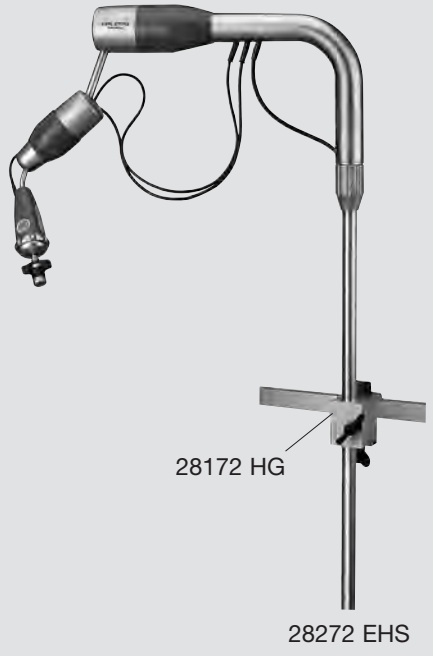


3-13

Components / Spare Parts		Catalog page
28272 RKB	**Holding System, autoclavable,** with quick release coupling KSLOCK	203
28172 HR	**Rotation Socket,** to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand	
28272 HB	**Articulated Stand,** reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)	
28272 UKN	**Clamping Jaw,** metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths	



Components / Spare Parts		Catalog page
28272 EC	**ENDOCRANE®,** piezoregulated holding arm	744
28272 ECS	**ENDOCRANE® Arm,** including stand	
28172 HG	**Socket,** to clamp to the OR table	
20780020	**Control Unit**	
040146-25*	**Cover,** sterile, package of 25	
28272 ECW	**Spring Balance**	
400 A	**Mains Cord,** length 300 cm	



* mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components / Spare Parts		Catalog page
20031002	**Air Compressor,** for POINT SETTER®	750
20031020	**Air Compressor,** 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg	
27630022	**Fabric Reinforced Tube,** for connecting CALCUSPLIT® SCB 27630020	
28172 WC	**Connecting Tube,** length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar	



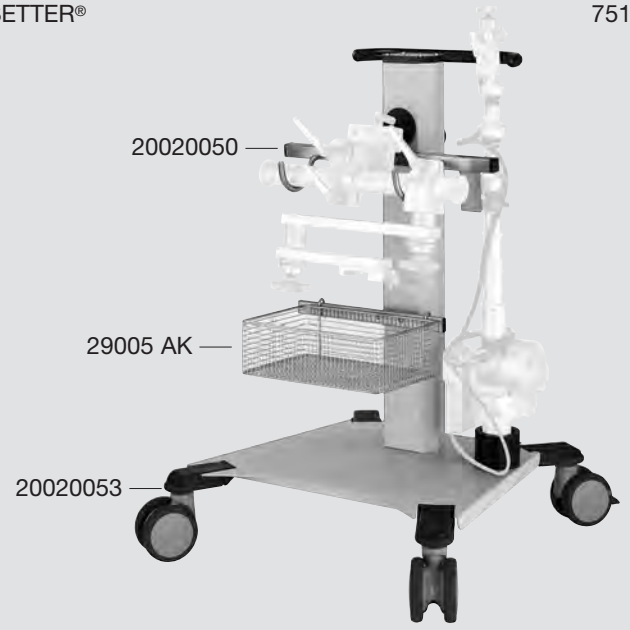
20031002

Components / Spare Parts		Catalog page
20031002 C	**Air Compressor,** for POINT SETTER®	750
20031020 C	**Air Compressor,** 0 – 8 bar, power supply 115 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg	
27630022	**Fabric Reinforced Tube,** for connecting CALCUSPLIT® SCB 27630020	
28172 WC	**Connecting Tube,** length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar	



20031002 C

Components / Spare Parts		Catalog page
20020059	**STOR-E® Transport Cart,** for POINT SETTER®	751
20020053	**Mobile Stand,** for POINT SETTER®	
20020050	**Attachment Set,** for POINT SETTER®	
29005 AK	**Wire Basket**	



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Miscellaneous

Navigation Panel Unit (NPU)

Components / Spare Parts		Catalog page
40800001	**KARL STORZ Navigation System NPU**	713
40800020	**Panel PC,** including installed ENT navigation software and passive touch pen	
40800028	**Optical Mouse**	
40800030	**Camera**	
40800040	**Electronic Box**	
40800050	**Docking Adaptor,** for panel PC, with CD-RW/DVD-ROM	
40800060	**Stand,** mobile, with locking knob for camera	
40800072	**Data Cable**	
40800074	**VGA Cable**	
40800076	**Camera Cable**	
40800080	**Headband with Plastic Holder**	
40800087	**Patient Tracker II,** with glass marker spheres, **autoclavable**	
40800090	**Case,** for panel PC, camera, electronic box, mobile stand and connecting cables	
40800110	**Navigation Probe,** with glass marker spheres, **autoclavable**	
400 A	**Mains Cord,** length 300 cm	



8-11

Components / Spare Parts		Catalog page
40334101	**CLEARVISION® II,** lens irrigation system for endoscopes	200
40334120	**CLEARVISION® II,** power supply 100 – 240 VAC, 50/60 Hz	
400 A	**Mains Cord**	
20014230	**One-Pedal Footswitch**	
40334140	**Silicone Tubing Set,** sterilizable	



40334120

Spare Part


2027390
Mains Fuse,
T 1.0 A (SB),
package of 10

Components / Spare Parts		Catalog page
40334140	**Silicone Tubing Set,** for irrigation	–



Spare Parts


20330088
Puncture Needle,
for irrigation bottle


2723091
Connector, large tube diameter


2727291
Connector, small tube diameter


2724190
LUER-Lock Tube Connector, male,
tube diameter 2 mm

40334180
Pump Tube,
for CLEARVISION® II,
sterilizable, package of 25

8-11

Components / Spare Parts — Catalog page

AUTOCON® II 400 SCB — 418



20535220-111/20535220-112/20535220-113
20535220-114/20535220-115/20535220-116

AUTOCON® II 400 SCB, Set	**20535201-111**	**20535201-112**	**20535201-113**
AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz	20535220-111	20535220-112	20535220-113
Mains Cord, length 300 cm	400 A	400 A	400 A
SCB Connecting Cable, length 100 cm	20090170	20090170	20090170

AUTOCON® II 400 SCB, Set	**20535201-114**	**20535201-115**	**20535201-116**
AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz	20535220-114	20535220-115	20535220-116
Mains Cord, length 300 cm	400 A	400 A	400 A
SCB Connecting Cable, length 100 cm	20090170	20090170	20090170

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Components / Spare Parts — Catalog page

20522501 **AUTOCON® 200** — 420

20522520 **AUTOCON® 200,** power supply 200 – 240 VAC, 50/60 Hz

400 A **Mains Cord,** length 300 cm

27809 **Adaptor,** for unipolar HF output, diameter 4/5 mm



20522520

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

8-11

Components / Spare Parts — Catalog page

20522501 C **AUTOCON® 200** 420

20522520 C **AUTOCON® 200,** power supply 100 – 120 VAC, 50/60 Hz
400 A **Mains Cord,** length 300 cm
27809 **Adaptor,** for unipolar HF output, diameter 4/5 mm



20522520 C

Spare Part


2028090 **Mains Fuse,** T 8.0 AL (SB), package of 10

Components / Spare Parts — Catalog page

20522501-010 **AUTOCON® 200** 420

20522520-010 **AUTOCON® 200,** with ENDOCUT function, power supply 200 – 240 VAC, 50/60 Hz
400 A **Mains Cord,** length 300 cm
27809 **Adaptor,** for unipolar HF output, diameter 4/5 mm



20522520-010

Spare Part


2027690 **Mains Fuse,** T 4.0 AL (SB), package of 10

Components / Spare Parts — Catalog page

20522501C010 **AUTOCON® 200** 420

20522520C010 **AUTOCON® 200,** with ENDOCUT function, power supply 100 – 120 VAC, 50/60 Hz
400 A **Mains Cord,** length 300 cm
27809 **Adaptor,** for unipolar HF output, diameter 4/5 mm



20522520C010

Spare Part


2028090 **Mains Fuse,** T 8.0 AL (SB), package of 10

8-11

Components / Spare Parts		Catalog page
20520501	**AUTOCON® 50**	422
20520520	**AUTOCON® 50,** power supply 100/120/230/240 VAC, 50/60 Hz	
400 A	**Mains Cord,** length 300 cm	
27809	**Adaptor,** for unipolar HF output, diameter 4/5 mm	



20520520

Spare Part



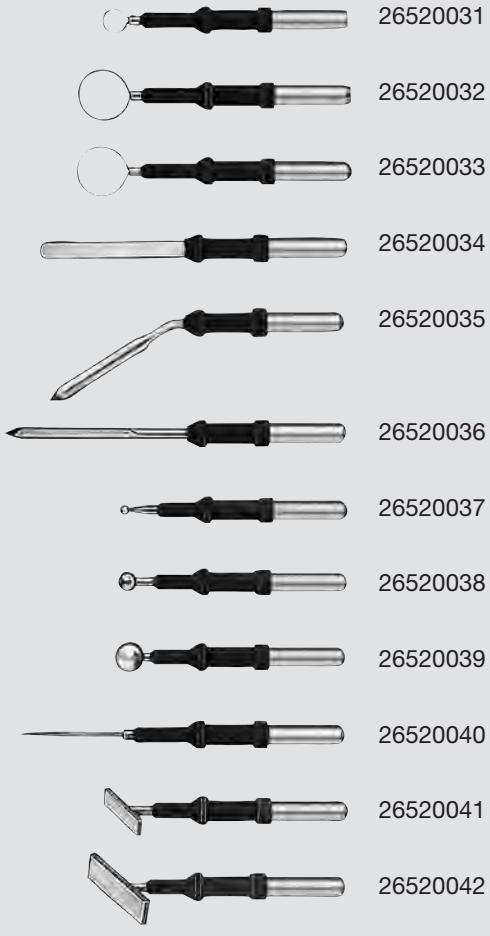
2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10

8-11

Surgery Electrodes Set

Components / Spare Parts		Catalog page
20530008	**Surgery Electrodes Set**	425
20530031	**Container with Lid and Sterilizing Insert,** for 16 electrodes with diameter 4 mm	
26520031	**Wire Snare,** 5 mm	
26520032	**Wire Snare,** 10 mm	
26520033	**Ribbon Snare,** 10 mm	
26520034	KIRSCHNER **Spatula Electrode,** straight	
26520035	MAGENAU **Knife Electrode,** angled	
26520036	MAGENAU **Knife Electrode,** lancet-shaped	
26520037	**Ball Electrode,** 2 mm	
26520038	**Ball Electrode,** 4 mm	
26520039	**Ball Electrode,** 6 mm	
26520040	**Needle Electrode**	
26520041	**Flat Electrode,** 8 x 10 mm	
26520042	**Flat Electrode,** 10 x 15 mm	





8-11