

# **ORAL AND MAXILLOFACIAL SURGERY**

**3rd EDITION 1/2012 US**

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# STORZ



## THE WORLD OF ENDOSCOPY

### ORAL AND MAXILLOFACIAL SURGERY

3rd EDITION 1/2012 US

## Important information for U.S. customers

### Note:

Certain devices and references made herein to specific indications of use may have not received clearance or approval by the United States Food and Drug Administration. Practitioners in the United States should first consult with their local KARL STORZ representative in order to ascertain product availability and specific labeling claims. Federal (USA) law restricts certain devices referenced herein to sale, distribution, and use by, or on the order of a physician, dentist, veterinarian, or other practitioner licensed by the law of the State in which she/he practices to use or order the use of the device.

## 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.

## KARL STORZ Items Not Available in the U.S. August, 2012

### Pending 510(k) / PMA not currently available for sale in the U.S.

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**Note:** References made herein to specific endoscopic procedures or techniques represent the opinions and/or experiences of the named physician(s). KARL STORZ Endoscopy-America, Inc. neither warrants nor represents the appropriateness or efficacy of said procedures. Physicians are encouraged to consult medical literature regarding techniques, compliances and hazards prior to performance of any endoscopic procedure.

**Note:** Some items are pending 510(k). Please contact KARL STORZ Customer Support at (800) 421-0837 regarding the current regulatory status of products above.

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#### **1. ORDERS**

Orders are to be placed with the Customer Support Department of KARL STORZ Endoscopy-America, Inc. ("KSEA") or with its sales force. However, orders will only be accepted by KSEA's Customer Support Department in El Segundo, California and only on the condition that in the event of any conflicting, inconsistent and/or additional provisions in a Customer purchase order or other document, the within Terms and Conditions will supersede and prevail and such conflicting, inconsistent and/or additional provisions shall be of no force or effect; KSEA hereby objects to such other provisions or terms proposed by Customer By accepting delivery of products, and/or the performance of services, from KSEA, and/or by paying for same, Customer agrees that notwithstanding anything to the contrary in Customer's own purchase order or other document. Customer accepts and agrees to the within Terms and Conditions, all of which constitute the sole and entire Agreement of KSEA and Customer, unless and to the extent modified and/or superseded by an agreement in writing signed by both Customer and an authorized representative of KSEA.

#### **2. PRICES**

Prices are subject to change without notice. Nevertheless, prices in effect at the time that an order is accepted will prevail. Written quotations are valid for 60 days unless otherwise specified. All applicable taxes, as well as shipping and/or handling charges, will be added to the invoice.

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#### **5. SHIPPING**

Although KARL STORZ products are carefully packed to minimize in-transit damage, all shipments should be carefully examined upon receipt and if a product is damaged, Customer must document the nature and extent of the damage and immediately contact KSEA. If concealed loss or damage is discovered, Customer must retain all packing materials and immediately notify KSEA, requesting an inspection. If shipments are received short, Customer must contact KSEA's Customer Support Department at once. KSEA reserves the right to make partial shipments on any Order. Invoices for partial shipments are payable upon receipt. KSEA is not liable for any damages caused by or attributable to delays and/or non-delivery due to any cause whatsoever.

#### **6. RETURN POLICY**

A return merchandise authorization (RMA) must be obtained from KSEA's Customer Support Department prior to returning any products. When phoning or writing KSEA, for an RMA, the Customer Support Representative must be provided with: (1) Customer name and number, as it appears on the invoice; (2) the telephone number and the person to contact; (3) the applicable P.O. number; (4) the KARL STORZ catalog number and, if applicable, the serial number for each product; and, (5) the reason for the return. KSEA reserves the right to refuse or return any products sent back to KSEA without prior authorization of its Customer Support Department. Returns must be carefully packed and shipped pre-paid to KSEA, attn: RMA number. KSEA's Customer Support Department will provide the return address and the RMA number. When returning products, Customer should include a copy of the original invoice or packing slip to ensure prompt issuing of credit. Full credit will only be issued for products that are returned within 30 days of invoice date and so long as such items are unused, in resalable condition and in their original product container. All products returned after 30 days from the date of invoice are subject to a 15% restocking fee. Shipping charges will be reimbursed, restocking fees will not be charged and full credit will be given if the return was due to an error on the part of KSEA. The following products may not be returned for credit or exchanged: (1) products held longer than 90 days from invoice date; (2) sterile packaged products where the package is opened and/or damaged; (3) discontinued products; (4) instruments that are etched or engraved by Customer; (5) products damaged by the Customer; (6) products purchased "as is" or as demo products; and, (7) used products. In order to prevent the transmission of disease to the medical facilities' and/or KSEA's personnel, all products must be cleaned and then sterilized and/or disinfected before sending such products back to KSEA, who reserves the right to return unclean and contaminated products to the Customer. Additionally, if any product becomes damaged and is not immediately returned, KSEA assumes no responsibility or liability for Customer's continued use of that damaged product. KSEA does not guarantee the performance, and may decline to repair or accept for repair/exchange, any product that has been repaired, modified and/or altered by any person or entity other than KSEA or an authorized repair facility of KSEA.

#### **7. INSTALLATION, PREVENTATIVE MAINTENANCE, AND OTHER SERVICES**

Subject to resource availability, KSEA may, in its sole discretion, (i) install and setup the product, perform preventative maintenance services, provide onsite or remote troubleshooting services and other services, (ii) provide software updates and (iii) provide loaners in case of back orders.

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To the extent reasonable as to the complexity and quantity of products, KSEA will provide training regarding the proper use of products at or near the time of delivery or installation, as applicable. KSEA may also provide additional training regarding the proper use of products upon Customer's request, in KSEA's sole discretion and subject to availability of KSEA personnel.

## 9. REPAIR PROGRAM

If repairs become necessary, for other than damages incurred during initial shipment, the Customer must follow the RMA procedure set forth in the "Return Policy" in Section 6, above. Warranty repairs will be made without charge (see "Warranty Policy," Section 10 below, for covered repairs). All other repairs are subject to KSEA's applicable standard repair or exchange charges. If requested, Customer will be advised of the estimated cost of the repair work or a product exchange before it is undertaken. All repairs carry a 90 day warranty. Exchange products carry the applicable KARL STORZ product warranty. If the damaged product is not returned within thirty (30) days of receipt of the replacement product, Customer will be invoiced for the full list price of the replacement. Subject to the availability of product, KSEA may, in its sole discretion, provide Customer with loaner product while non-warranty repairs are being made. Subject to resource availability, KSEA may, in its sole discretion, perform minor non-warranty repairs without charge. KSEA reserves the right to refuse or return any product sent back without prior authorization of KSEA's Customer Support Department.

## 10. WARRANTY POLICY

Except as otherwise provided herein and/or by the applicable warranty information for a specific product or type of product, all products are generally warranted to be in good working order at the date of delivery and free from defects in workmanship and materials for one (1) year from date of delivery. However, since some products carry a shorter or a longer warranty period, Customer should check with KSEA's Customer Support Department or product specific literature, instruction manual and/or labeling for the exact warranty period. Any such product(s) with a defect occurring during the applicable warranty period will be promptly replaced or, at the sole discretion of KSEA, repaired at no charge to Customer. Subject to availability of product, KSEA may, in its sole discretion, provide Customer with loaner product while the defective product is being replaced or repaired during warranty period. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED AND/OR STATUTORY, INCLUDING, BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS AND/OR OF SUITABILITY FOR A PARTICULAR PURPOSE, WITH RESPECT TO ALL KARL STORZ PRODUCTS OR SERVICES. ANY AND ALL OTHER WARRANTIES, REPRESENTATIONS AND/OR GUARANTEES, OF ANY TYPE, NATURE OR EXTENT, BE IT IMPLIED, EXPRESS AND/OR WHETHER ARISING UNDER OR AS A RESULT OF ANY STATUTE, LAW, COMMERCIAL USAGE, CUSTOM, TRADE OR OTHERWISE, ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED. Any contrary course of performance by and between the parties will not modify any representations and/or warranties set forth herein. KSEA neither assumes nor authorizes any person to assume for it any other liabilities in conjunction with and/or related to the sale and/or use of its products. To ensure proper use, handling and care of KARL STORZ products, Customer should consult the product specific literature, instruction manual, and/or labeling included with the product or otherwise available. Repairs, modifications or alterations of KARL STORZ products, performed by any person or entity, other than by KSEA or an authorized repair facility of KSEA, nullifies and otherwise voids all applicable KARL STORZ warranties. Repair or replacement of a KARL STORZ product shall not extend the term of any applicable warranty. The remedies provided herein are Customer's exclusive remedies under this Warranty Policy.

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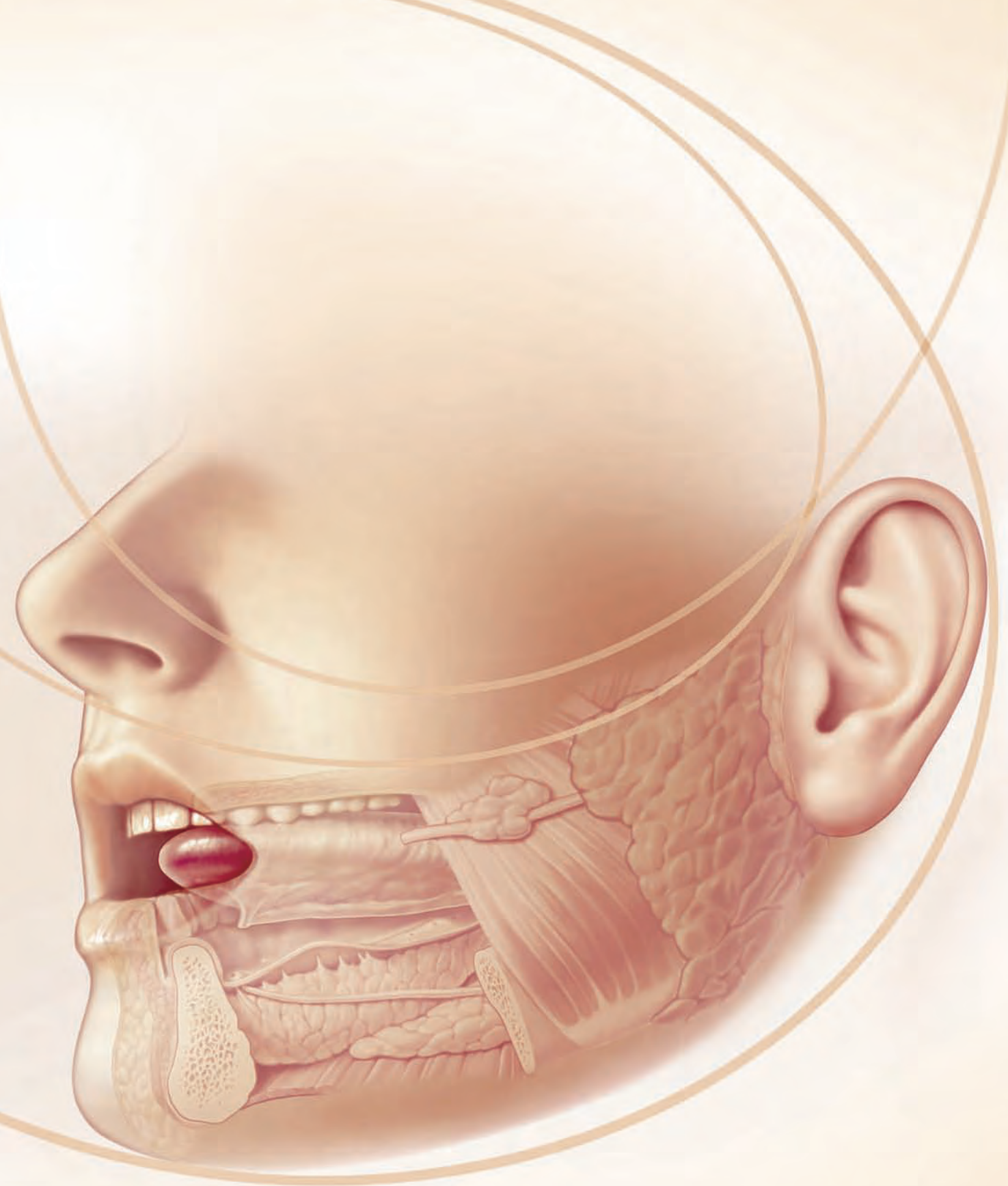
The dollar value of discounts and rebates (if any) provided by KSEA to Customer are intended to be discounts or reductions in price described in and in accordance with 42 U.S.C. Section 1320a-7b(b)(3)(A) and 42 C.F.R. Section 1001.952(h). Customer has an obligation to accurately record and may have an obligation to report all such reductions in purchase price to the Department of Health and Human Services ("DHHS") or other federal agency, state agencies, or other payers, as applicable. Customer acknowledges that this section is sufficient to effectively advise Customer of its obligations under applicable federal and state laws and regulations.

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**BASIC SETS**

# Basic Set for Endoscopically Assisted Treatment of Collum Fractures



# Basic Set for Endoscopically Assisted Treatment of Collum Fractures

## SCHÖN/SCHMELZEISEN Recommended Set

- ① 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
- ② 58200 ES **Optical Dissector**, with distal spatula, fenestrated, large, sharp, for use with HOPKINS® II Telescopes 7230 BA/BWA
- ③ 58210 AGA **Raspatory**, curved, width 9 mm, working length 15 cm
- ④ 58210 CA **Raspatory**, straight, spatula 12 x 12 mm, working length 15 cm
- ⑤ 58210 CGA **Raspatory**, curved, spatula 12 x 12 mm, working length 15 cm
- ⑥ 58210 EGA **Raspatory**, curved, spatula slightly curved, width 8 mm, working length 15 cm
- ⑦ 58210 GGA **Raspatory**, curved, arc-shaped spatula, width 9 mm, working length 15 cm
- ⑧ 58212 AA **Nerve Hook**, straight, working length 15 cm
- ⑨ 58210 BA **Raspatory**, straight, width 6 mm, working length 15 cm
- ⑩ 58210 ZA **Raspatory**, straight, distal end strongly curved, pointed, width 3 mm, working length 15 cm
- ⑪ 801708 KOCHER-LANGENBECK **Retractor**, size 65 x 14 mm, length 21.5 cm
- ⑫ 801707 **Retractor**, size 40 x 18 mm, length 23 cm
- ⑬ 750001 **Forceps**, serrated, width 1.8 mm, length 20 cm
- ⑭ 754718 **“Mosquito” Forceps**, extra slender, serrated, curved, length 18 cm
- ⑮ 58122 OD **Raspatory**, for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm

# Basic Set for Endoscopically Assisted Surgery of the Ramus Condylar Region



# Basic Set for Endoscopically Assisted Surgery of the Ramus Condylar Region

## TROULIS Recommended Set

- ① 7219 BA **HOPKINS® II Forward-Oblique Telescope 30°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- 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 58501 RB **NAHLIELI Mandibula Retractor**, with handle, with distal hook, 2 teeth, for use with Irrigation Sheath 58501 SA/SB/SC/SD and HOPKINS® II Telescope 7230 AA/BA and 7219 AA/BA
- ④ 58501 RC **TROULIS Mandibula Retractor**, with handle, with distal hook, curved upwards, for use with Irrigation Sheath 58501 SA/SB/SC/SD and HOPKINS® II Telescope 7230 AA/BA and 7219 AA/BA
- ⑤ 58501 SB **Irrigation Sheath**, for use with Mandibula Retractor 58501 RA/RB/RC and HOPKINS® II Telescope 7230 BA
- ⑥ 58501 SD **Irrigation Sheath**, for use with Mandibula Retractor 58501 RA/RB/RC and HOPKINS® II Telescope 7219 BA
- ⑦ 58501 SR **Suction Elevator**, large, working length 13 cm
- ⑧ 58210 BA **Raspatory**, straight, width 6 mm, working length 15 cm
- ⑨ 58210 CA **Raspatory**, straight, spatula 12 x 12 mm, working length 15 cm
- ⑩ 58210 ZA **Raspatory**, straight, distal end strongly curved, pointed, width 3 mm, working length 15 cm
- ⑪ 58122 OD **Raspatory**, for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm
- ⑫ 649183 **FERGUSON Suction Tube**, with cut-off hole and stylet, LUER, 10 Fr., working length 15 cm
- ⑬ 449201 **RHINOFORCE® II Nasal Scissors**, straight, with cleaning connector, working length 13 cm
- ⑭ 58160 KD **DINGMANN Bone Holding Forceps**, length 19 cm
- ⑮ 535212 **HALSTEAD "Mosquito" Artery Forceps**, curved, length 12.5 cm
- ⑯ 794518 **OCHSNER-KOCHER Artery Forceps**, straight, 1 x 2 teeth, length 18 cm
- ⑰ 505610 **SENN-MÜLLER Retractor**, double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm
- ⑱ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
- ⑲ 208015 **Blade**, Fig. 15, non-sterile, package of 100
- ⑳ 506401 **AUFRICHT Nasal Retractor**, working length 6 cm
- ㉑ 840021 B **Bipolar Coagulating Electrode**, with suction channel, for nose and epistaxis, tip angled 30°, working length 11 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 27176 LV
- ㉒ **26 5200 43** **Electrode Handle**, with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Connecting Cable **26 5200 45** required)
- ㉓ **26 5200 40** **Needle Electrode**
- ㉔ **26 5200 38** **Ball Electrode**, 4 mm
- ㉕ **26 5200 45** **High Frequency Cord**, for Electrode Handle **26 5200 43**, length 400 cm

# Set for Temporomandibular Arthroscopy

Basic Set



# Set for Temporomandibular Arthroscopy

## Basic Set

- ① 58705 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 1.9 mm, length 6.5 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 58706 AN **High-Flow Arthroscope Sheath**, outer diameter 2.5 mm, working length 4 cm, for use with HOPKINS® Telescope 58705 AA, color code: green
- ③ 58705 BA **HOPKINS® Forward-Oblique Telescope 30°**, diameter 1.9 mm, length 6.5 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ④ 58706 BN **High Flow Arthroscope Sheath**, outer diameter 2.5 mm, working length 4 cm, for use with HOPKINS® Telescope 58705 BA, color code: red
- ⑤ 58706 BS **Obturator**, sharp, for use with Arthroscope Sheaths 58706 AN/BN
- ⑥ 58706 BT **Obturator**, blunt, for use with Arthroscope Sheaths 58706 AN/BN
- ⑦ 58702 X **Trocar**, outer diameter 2.5 mm, working length 3.5 cm, for use with Obturators 58702 XS/XT and Instruments 58702 DH/EK/EO/M/N/S/U
- ⑧ 58717 X **Trocar**, outer diameter 1.8 mm, working length 4 cm, for use with Obturators 58717 XB/XS and Biopsy Forceps 58717 PZ
- ⑨ 58717 XS **Obturator**, sharp, for use with Trocar 58717 X
- ⑩ 58717 XB **Obturator**, blunt, for use with Trocar 58717 X
- ⑪ 58702 XS **Obturator**, sharp, for use with Trocar 58702 X
- ⑫ 58702 XT **Obturator**, blunt, for use with Trocar 58702 X
- ⑬ 58702 S **Palpation Hook**, graduated, diameter 1.5 mm, length of hook 1 mm, working length 7.5 cm, for use with Trocar 58702 X
- ⑭ 58717 PZ **Biopsy Forceps**, single action jaws, diameter 1.3 mm, working length 6 cm, for use with Trocar 58717 X
- ⑮ 58702 M **Sickle Knife**, straight, diameter 1.5 mm, blade 7.5 mm, working length 7.5 cm, for use with Trocar 58702 X
- ⑯ 58702 N **Sickle Knife**, straight, diameter 1.5 mm, blade 6 mm, working length 7.5 cm, for use with Trocar 58702 X
- ⑰ 58702 EO **Scissors**, upbiting, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X
- ⑱ 58702 EK **Scissors**, downbiting, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X
- ⑲ 58702 DH **Forceps**, through-cutting, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X
- ⑳ 58702 U **Grasping Forceps**, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X
- ㉑ 58702 W **Changing Rod**, double-ended pointed/blunt, diameter 2 mm, length 15 cm, for High-Flow Arthroscope Sheaths 58703 BH/CH and Trocar 58702 X (not illustrated)





# Basic Set for Sialendoscopy

Set recommended by MARCHAL, M. D.

- ① 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
- ② 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
- ③ 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
- ④ 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
- ⑤ 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
- ⑥ 11576 TJ **Foreign Body Forceps**, flexible, double action jaws, diameter 1 mm, working length 19 cm
- ⑦ 11576 ZJ **Biopsy Forceps**, flexible, double action jaws, diameter 1 mm, working length 19 cm
- ⑧ 745720 **Guide Wire**, diameter 0.6 mm, sterile, for single use, package of 10, for use with Bougies 745710 – 745713
- ⑨ 11577 BP **Balloon Catheter**, diameter 0.9 mm, sterile, for single use, package of 10
- 11577 B **Balloon Catheter**, diameter 0.7 mm, sterile, for single use (not illustrated)
- ⑩ 11575 K **Stone Extractor**, diameter 0.6 mm, basket with 3 wires, sterile, for single use
- ⑪ 11575 L **Stone Extractor**, diameter 0.6 mm, basket with 6 wires, sterile, for single use
- ⑫ 745847 **Salivary Duct Probe**, size 0000
- ⑬ 745848 **Salivary Duct Probe**, size 000
- ⑭ 745849 **Salivary Duct Probe**, size 00
- ⑮ 745850 **Salivary Duct Probe**, size 0
- ⑯ 745851 **Salivary Duct Probe**, size 1
- ⑰ 745852 **Salivary Duct Probe**, size 2
- ⑱ 745853 **Salivary Duct Probe**, size 3
- ⑲ 745854 **Salivary Duct Probe**, size 4
- ⑳ 745855 **Salivary Duct Probe**, size 5
- ㉑ 745856 **Salivary Duct Probe**, size 6
- 745857 **Salivary Duct Probe**, size 7 (not illustrated)
- 745858 **Salivary Duct Probe**, size 8 (not illustrated)
- ㉒ 745910 **Dilator for Salivary Duct**, length 14 cm
- ㉓ 745715 **Dressing Forceps**, angled, length 15 cm
- ㉔ 745716 **Tissue Forceps**, angled, with 1 x 2 teeth, length 15 cm
- ㉕ 745717 **Angled Scissors for Salivary Gland**, with bulb, length 14 cm
- 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 (not illustrated)
- 11580 B **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A or 11583 A, perforated, lid with silicone bridges, with port for irrigation connector, external dimensions (w x d x h): 275 x 178 x 35 mm (not illustrated)
- 11580 C **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11576 A or 11577 A, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm (not illustrated)
- 27651 K2 **Cleaning Brush**, round, flexible, for working channel diameter 0.6 – 0.8 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 27651 K3 **Cleaning Brush**, round, flexible, for working channel diameter 0.8 – 1.4 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 27651 K5 **Cleaning Brush**, round, flexible, for working channel diameter 0.25 – 0.4 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 11573 MB **Micro Burr for Salivary Stones**, diameter 0.38 mm, for use with Miniature Straight Forward Telescopes 11573 A and 11582 A (not illustrated)

# Supplementary Set for Sialendoscopy

Basic Set



# Supplementary Set for Sialendoscopy

## Basic Set

Set recommended by MARCHAL, M. D.

- ① 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
- ② 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
- ③ 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
  - Foreign Body Forceps 11583 TJ
  - Biopsy Forceps 11583 ZJ
  - Laser Probe
  - Balloon Catheter 11583 BP
- ④ 11583 TJ **Foreign Body Forceps**, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm
- ⑤ 11583 ZJ **Biopsy Forceps**, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm
- ⑥ 11582 M **Stone Extractor**, diameter 0.4 mm, basket with 4 wires, sterile, for single use
- ⑦ 745708 MARCHAL **Bougie**, diameter 1 mm, for use with Guide Wire 745725
- ⑧ 745709 MARCHAL **Bougie**, diameter 1.5 mm, for use with Guide Wire 745725
- ⑨ 745710 MARCHAL **Bougie**, diameter 2 mm, for use with Guide Wires 745720 and 745725
- ⑩ 745711 MARCHAL **Bougie**, diameter 2.5 mm, for use with Guide Wires 745720 and 745725
- ⑪ 745712 MARCHAL **Bougie**, diameter 3 mm, for use with Guide Wires 745720 and 745725
- ⑫ 745713 MARCHAL **Bougie**, diameter 3.5 mm, for use with Guide Wires 745720 and 745725
- ⑬ 745725 **Guide Wire**, diameter 0.4 mm, sterile, for single use, package of 10, for use with Bougies 745708 – 745713
- 11580 B **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A or 11583 A, perforated, lid with silicone bridges, with port for irrigation connector, external dimensions (w x d x h): 275 x 178 x 35 mm (not illustrated)
- 11574 MB **Micro Burr for Salivary Stones**, diameter 0.8 mm, for use with 11574 A and 11583 A (not illustrated)



# Basic Set for Sialendoscopy

**Recommended Set, ERLANGEN model**

- ① 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 for Salivary Stones 11573 MB
  - Guide Wire 745725
  - Laser Probe
- ② 11582 M **Stone Extractor**, diameter 0.4 mm, basket with 4 wires, sterile, for single use  
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 (not illustrated)
- ③ 745920 **Dilator for Salivary Duct**, size 1, diameter 0.5 – 0.8 mm, length 11.5 cm
- ④ 745921 **Dilator for Salivary Duct**, size 2, diameter 0.7 – 1 mm, length 11.5 cm
- ⑤ 745922 **Dilator for Salivary Duct**, size 3, diameter 0.9 – 1.2 mm, length 11.5 cm
- ⑥ 745923 **Dilator for Salivary Duct**, size 4, diameter 1 – 1.6 mm, length 11.5 cm  
745924 **Dilator for Salivary Duct**, size 5, diameter 1.3 – 1.8 mm, length 11.5 cm (not illustrated)
- ⑦ 745910 **Dilator for Salivary Duct**, length 14 cm
- ⑧ 11573 MB **Micro Burr for Salivary Stones**, diameter 0.38 mm,  
for use with Miniature Straight Forward Telescopes 11573 A and 11582 A
- 27651 K5 **Cleaning Brush**, round, flexible, for working channel diameter 0.25 – 0.4 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 27651 K2 **Cleaning Brush**, round, flexible, for working channel diameter 0.6 – 0.8 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 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 (not illustrated)
- 745905 **Dilator for Salivary Duct**, (Wharton duct), very pointed (not illustrated)

# Supplementary Set for Sialendoscopy

Basic Set



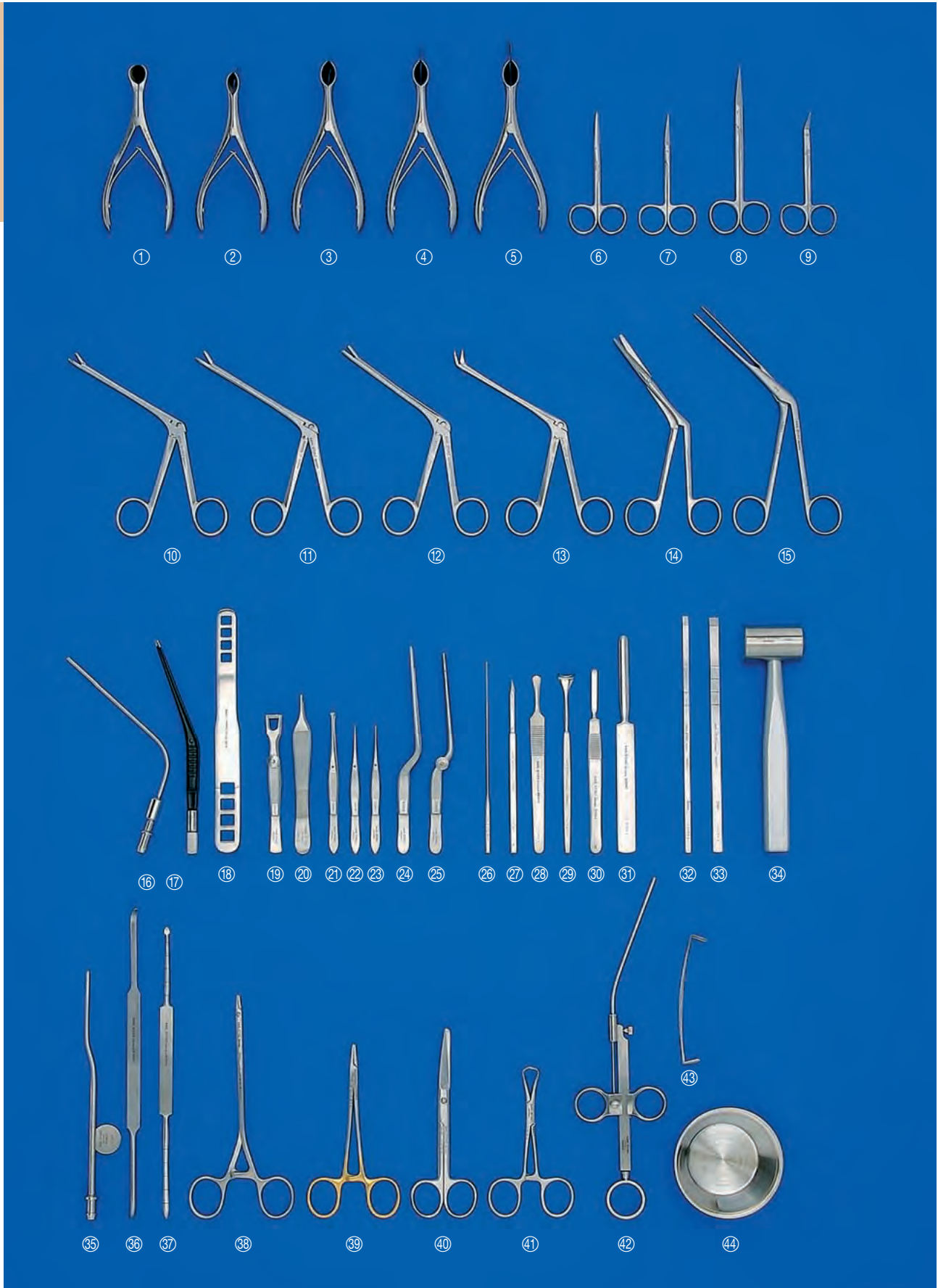
# Supplementary Set for Sialendoscopy

## Basic Set

### Recommended Set, ERLANGEN model

- ① 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  
– Micro Burr 11574 MB  
– Foreign Body Forceps 11574 TJ  
– Biopsy Forceps 11574 ZJ  
– Guide Wire 745720  
– Laser Probe  
– Balloon Catheter 11583 BP
- ② 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
- ③ 11574 TJ **Foreign Body Forceps**, flexible, double action jaws, diameter 0.8 mm, working length 30 cm
- ④ 11574 ZJ **Biopsy Forceps**, flexible, double action jaws, diameter 0.8 mm, working length 30 cm
- ⑤ 11574 MB **Micro Burr for Salivary Stones**, diameter 0.8 mm, for use with Telescopes 11574 A and 11583 A
- 27651 K5 **Cleaning Brush**, round, flexible, for working channel diameter 0.25 – 0.4 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 27651 K1 **Cleaning Brush**, round, flexible, for working channel diameter 0.4 – 0.6 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 27651 K2 **Cleaning Brush**, round, flexible, for working channel diameter 0.6 – 0.8 mm, length 40 cm, for single use, package of 10 (not illustrated)
- 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 (not illustrated)

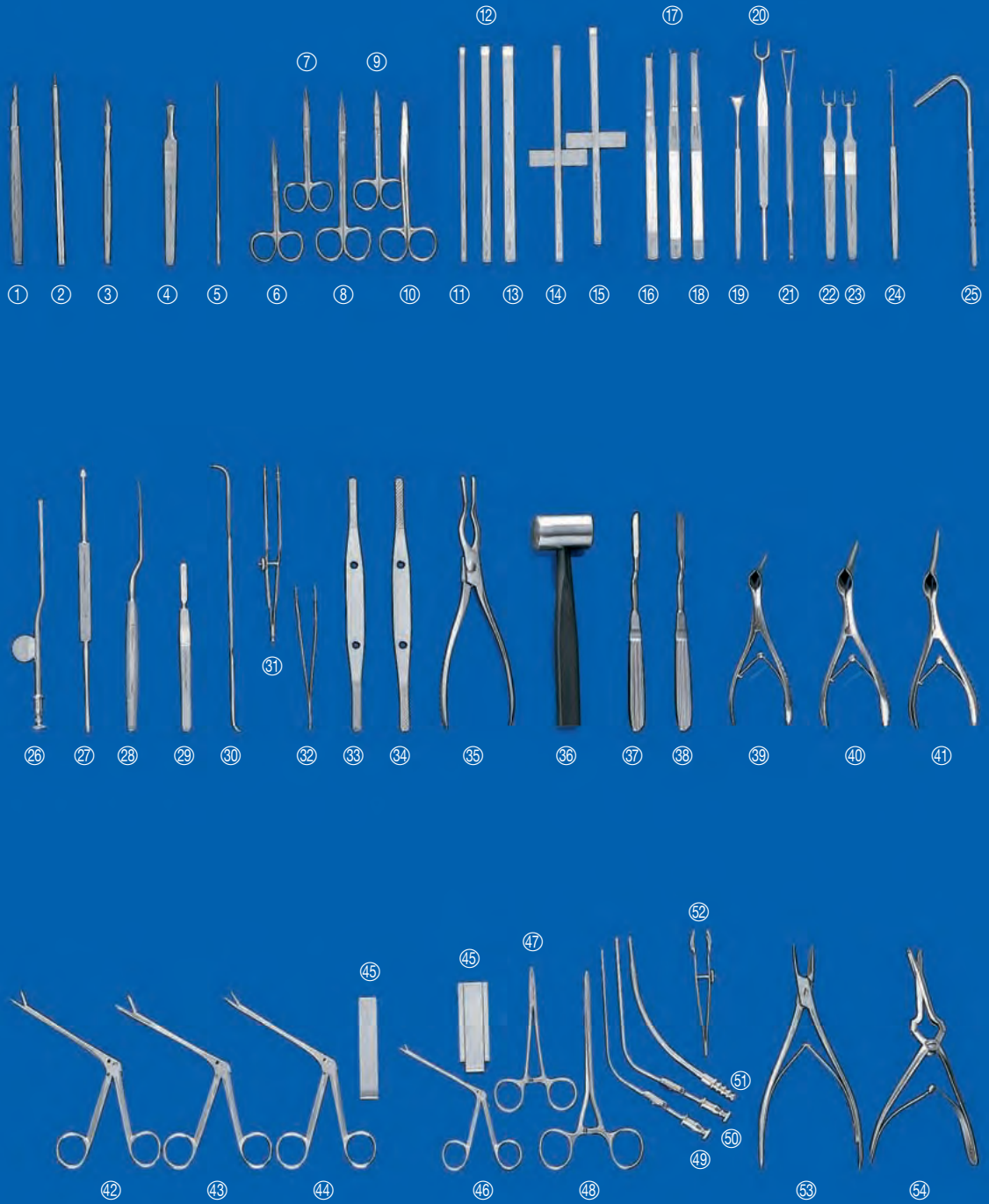
# Basic Set for Septum Surgery





## Basic Set for Septum Surgery

①	400500	HARTMANN <b>Nasal Speculum</b> , for adults, length 13 cm
②	403655	COTTLE <b>Nasal Speculum</b> , blade length 55 mm, length 13 cm
③	403555	KILLIAN-STRUJCKEN <b>Nasal Speculum</b> , standard model, blade length 55 mm, length 13.5 cm
④	403575	<b>Same</b> , blade length 75 mm
⑤	403590	<b>Same</b> , blade length 90 mm
⑥	513410	COTTLE <b>Scissors</b> , curved, length 10.5 cm
⑦	511210	<b>Scissors</b> , extra delicate, curved, length 10 cm
⑧	511414	JOSEPH <b>Scissors</b> , curved, length 14 cm
⑨	513200	WALTER <b>Scissors</b> , angled, length 10 cm
⑩	456001	BLAKESLEY <b>Nasal Forceps</b> , size 1
⑪	456003	<b>Same</b> , size 3
⑫	455500	TAKAHASHI <b>Nasal Forceps</b> , working length 9.5 cm
⑬	449002	HEYMANN <b>Nasal Scissors</b> , medium
⑭	456502	BLAKESLEY-WILDE <b>Nasal Forceps</b> , 45° upturned, size 2
⑮	430300	LUBET-BARBON <b>Nasal Dressing Forceps</b>
⑯	204809	FERGUSON <b>Suction Tube</b> , 9 Fr.
⑰	843116	<b>Bipolar Coagulating Forceps</b> , angular
	847000 E	<b>Bipolar High Frequency Cord</b> , for Coagulation Forceps 843116, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
⑱	740000	BRÜNNINGS <b>Tongue Depressor</b> , length 19 cm
⑲	534500	COTTLE <b>Columella Clamp</b> , length 11 cm
⑳	533212	ADSON-BROWN <b>Tissue Forceps</b> , atraumatic, fine side grasping teeth, length 12 cm
㉑	530811	<b>Tissue Forceps</b> , 7 x 8 fine teeth, length 11 cm
㉒	530710	<b>Dressing Forceps</b> , delicate, length 10 cm
㉓	530910	<b>Same</b> , straight, 1 x 2 teeth
㉔	426516	JANSEN <b>Nasal Dressing Forceps</b> , bayonet-shaped, length 16.5 cm
㉕	534015	COTTLE <b>Lower Lateral Forceps</b> , bayonet-shaped
㉖	2x 417013	<b>Cotton Applicators</b> , triangular serrated, length 15 cm
㉗	496800	<b>Nasal Knife</b> , curved
㉘	493000	COTTLE <b>Nasal Knife</b> , rounded edge, length 14 cm
㉙	498400	COTTLE <b>Retractor</b>
㉚	478304	McKENTY <b>Raspatory</b> , width 4 mm
㉛	525800	<b>Elevator</b> , for reposition
㉜	484004	COTTLE <b>Chisel</b> , flat, width 4 mm
㉝	484007	<b>Same</b> , width 7 mm
㉞	174200	COTTLE <b>Metal Mallet</b>
㉟	479800	<b>Suction Raspatory</b> , with stylet
㊱	479200	COTTLE <b>Elevator</b> , double-ended
㊲	479000	MASING <b>Elevator</b> , double-ended
㊳	515017	<b>Needle Holder</b> , extra delicate, length 17 cm
㊴	516013	<b>Needle Holder</b> , tungsten carbide inserts, length 13 cm
㊵	791202	<b>Scissors</b> , curved, sharp/blunt, length 14.5 cm
㊶	6x 796011	BACKHAUS <b>Towel Forceps</b> , length 11 cm
㊷	440000	KRAUSE <b>Nasal Snare</b> , length 25 cm
㊸	443500	<b>Nasal Snare Wire</b> , for 440000 – 441510, package of 25
㊹	2x 810810	<b>Cup Medicine</b> , 100 ccm



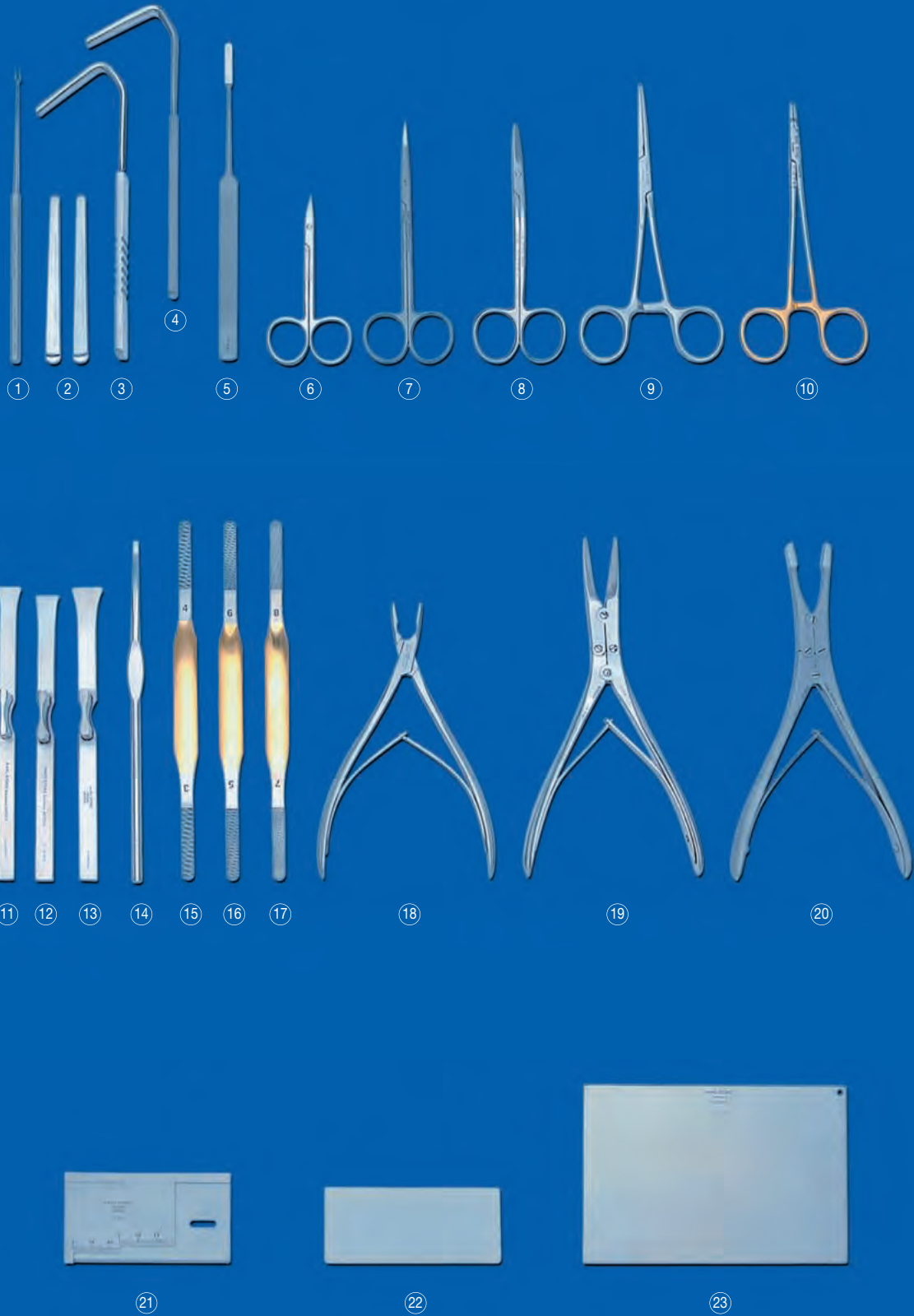
## Basic Set for Rhinoplasty

①	496400	MASING <b>Surgical Handle</b>
	208015	<b>Blade</b> , Fig. 15, non-sterile, package of 100 (not illustrated)
	208011	<b>Same</b> , Fig. 11 (not illustrated)
②	496500	<b>Surgical Handle</b> , for miniature blades, round, length 15.5 cm
	496764	<b>Miniature Blade</b> , Fig. 64, round, sterile, package of 24 (not illustrated)
③	496900	MASING <b>Nasal Knife</b>
④	493000	COTTLE <b>Nasal Knife</b> , rounded edge, length 14 cm
⑤	417013	<b>Cotton Applicators</b> , triangular serrated, length 15 cm
⑥	511210	<b>Scissors</b> , extra delicate, curved, length 10 cm
⑦	513410	COTTLE <b>Scissors</b> , curved, length 10.5 cm
⑧	511414	JOSEPH <b>Scissors</b> , curved, length 14 cm
⑨	513200	WALTER <b>Scissors</b> , angled, length 10 cm
⑩	513700	FOMON <b>Dorsal Scissors</b> , angular, working length 6.5 cm
⑪	484004	COTTLE <b>Chisel</b> , flat, width 4 mm
⑫	484007	<b>Same</b> , width 7 mm
⑬	484009	<b>Same</b> , width 9 mm
⑭	484206	COTTLE <b>Crossbar Osteotome</b> , graduated, straight
⑮	484406	<b>Same</b> , curved
⑯	484800	MASING <b>Chisel</b> , straight
⑰	484700	<b>Same</b> , curved to left
⑱	484600	<b>Same</b> , curved to right
⑲	498400	COTTLE <b>Retractor</b>
⑳	505700	COTTLE <b>Retractor</b> , double-ended
㉑	505800	NEIVERT <b>Retractor</b> , double-ended, made of wire, length 18 cm
㉒	505100	COTTLE <b>Retractor</b> , 2 prongs, blunt prong on left
㉓	505000	<b>Same</b> , blunt prong on right
㉔	499101	<b>Hook</b> , one prong, sharp curve, length 16.5 cm
㉕	506400	AUFRICHT <b>Nasal Retractor</b>
㉖	479800	<b>Suction Elevator</b> , with stylet
㉗	479000	MASING <b>Elevator</b> , double-ended
㉘	478100	JOSEPH-MASING <b>Raspatory</b>
㉙	478305	McKENTY <b>Raspatory</b> , width 5 mm
㉚	479200	COTTLE <b>Elevator</b> , double-ended
㉛	534015	COTTLE <b>Lower Lateral Forceps</b> , bayonet-shaped
㉜	533212	ADSON-BROWN <b>Tissue Forceps</b> , atraumatic, fine side grasping teeth, length 12 cm
㉝	523600	<b>Nasal Rasp</b> , double-ended, fine
㉞	523700	<b>Nasal Rasp</b> , double-ended, coarse
㉟	528800	WALSHAM <b>Septum Straightening Forceps</b>
㊱	174200	COTTLE <b>Metal Mallet</b>
㊲	523000	JOSEPH <b>Saw</b> , bayonet-shaped, right
㊳	523100	<b>Same</b> , left
㊴	403655	COTTLE <b>Nasal Speculum</b> , blade length 55 mm, length 13 cm
㊵	403575	KILLIAN-STRUYCKEN <b>Nasal Speculum</b> , standard model, blade length 75 mm, length 13.5 cm
㊶	403590	<b>Same</b> , blade length 90 mm
㊷	456001	BLAKESLEY <b>Nasal Forceps</b> , size 1
㊸	456003	<b>Same</b> , size 3
㊹	458000	WATSON-WILLIAMS <b>Nasal Forceps</b> , serrated
㊺	523900	COTTLE <b>Bone Crusher</b> , with clip
㊻	517000	MASING <b>Needle Holder</b> , ear forceps shape
㊼	516513	NEIVERT-MASING <b>Needle Holder</b> , length 13 cm
㊽	515017	<b>Needle Holder</b> , extra delicate, length 17 cm
㊾	529207	FRAZIER <b>Suction Tube</b> , outer diameter 7 Fr./2 mm, working length 10 cm, total length 17.5 cm
㊿	529209	<b>Same</b> , outer diameter 9 Fr./3 mm
①	529105	<b>Suction Tube</b> , curved, outer diameter 5 mm
②	534500	COTTLE <b>Columella Clamp</b> , length 11 cm
③	469000	KAZANIJAN <b>Nasal Hump Forceps</b> , length 20 cm
④	468000	JANSEN-MIDDLETON <b>Septum Forceps</b> , working length 10 cm

# Special Set for Rhinoplasty

Basic Set

CHAPTER 8 / 9



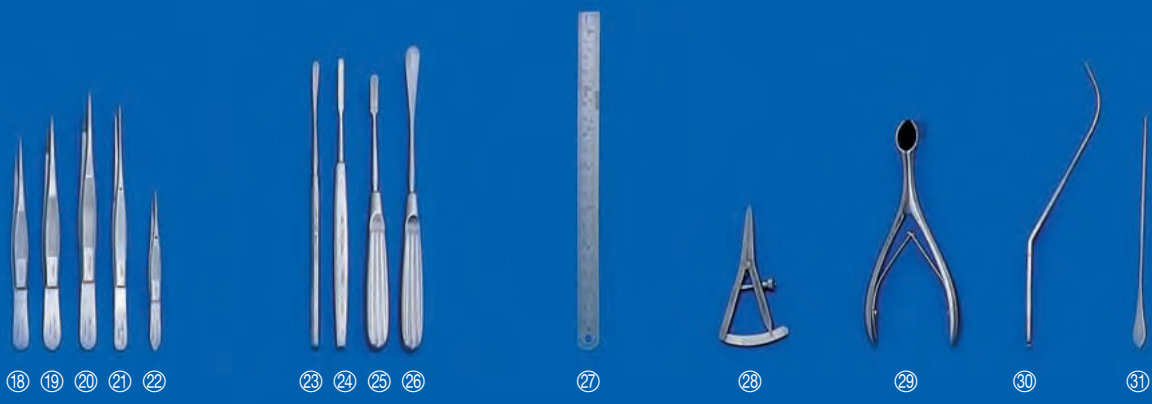
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# Special Set for Rhinoplasty

## Basic Set

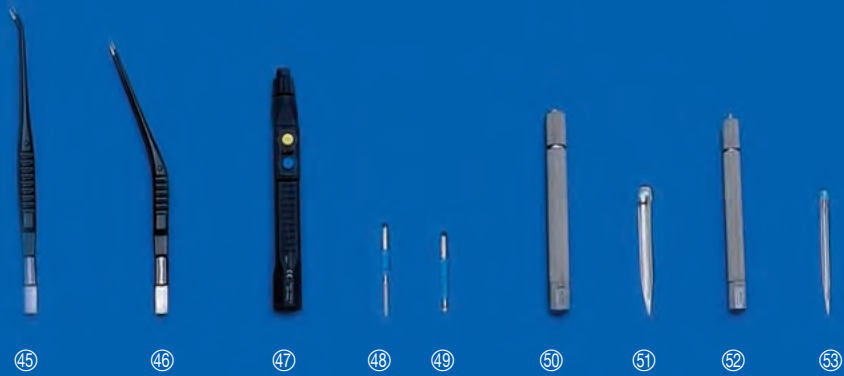
### SIMMEN-BRINER Recommended Set

- |   |           |   |
|---|-----------|---|
| ① | 488060    | <b>Ala Double Hook</b> , with octagonal handle, with 2 sharp points, width 2 mm, length 16.5 cm                 |
| ② | 2x 477098 | <b>Ala Dilator</b> , for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm |
| ③ | 506400    | AUFRICHT <b>Nasal Retractor</b> , length 16.5 cm  |
| ④ | 488054    | AUFRICHT <b>Nasal Retractor</b> , with side protector, length 16.5 cm   |
| ⑤ | 488070    | JOSEPH <b>Raspatory</b> , slightly curved, width 4 mm, length 17.5 cm   |
| ⑥ | 489084    | <b>Angular Scissors</b> , extra delicate, length 9.5 cm   |
| ⑦ | 488048    | KILNER <b>Scissors</b> , curved, sharp/sharp, length 13.5 cm  |
| ⑧ | 513700    | FOMON <b>Scissors</b> , curved, working length 6.5 cm   |
| ⑨ | 498822    | AIACH <b>Cartilage Graft Forceps</b> , length 15 cm   |
| ⑩ | 516115    | RYDER <b>Needle Holder</b> , extra delicate, length 15 cm   |
| ⑪ | 487012    | RUBIN <b>Osteotome</b> , width of cut 12 mm, length 16.5 cm   |
| ⑫ | 487014    | <b>Same</b> , width of cut 14 mm  |
| ⑬ | 487016    | <b>Same</b> , width of cut 16 mm  |
| ⑭ | 486102 SB | <b>Osteotome</b> , width 2 mm, length 19 cm   |
| ⑮ | 523834    | <b>Nasal Rasp</b> , tungsten carbide, Fig. 3 and 4  |
| ⑯ | 523856    | <b>Same</b> , Fig. 5 and 6  |
| ⑰ | 523878    | <b>Same</b> , Fig. 7 and 8  |
| ⑱ | 200600    | LEMPERT <b>Rongeur</b> , straight, length 15.5 cm   |
| ⑲ | 469200    | ROWLAND-MEYER <b>Nasal Hump Forceps</b> , double joint, curved blades, length 20 cm                             |
| ⑳ | 488038    | RUBIN <b>Septum Morcelizer</b> , straight, length 20 cm   |
| ㉑ | 498820    | AIACH <b>Grid</b> , size 90 x 50 mm   |
| ㉒ | 231000    | <b>Hone</b> , "ARKANSAS" oil stone, wedge-shaped, size 10 x 4 cm  |
| ㉓ | 523913    | <b>Metal Tray</b> , size 10 x 15 cm   |



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①	740000	<b>BRÜNINGS Tongue Depressor</b> , length 19 cm
②	122005	<b>HARTMANN Ear Speculum</b> , outer diameter 5 mm, length 3.6 cm
③	796011	<b>BACKHAUS Towel Forceps</b> , length 11 cm
④	793401	<b>Tissue Forceps</b> , 1 x 2 teeth, standard width, length 14.5 cm
⑤	793402	<b>Same</b> , medium width
⑥	793602	<b>Tissue Forceps</b> , 1 x 2 teeth, medium, length 16 cm
⑦	214200	<b>WULLSTEIN Forceps</b> , 1 x 2 teeth, length 15 cm
⑧	530910	<b>Tissue Forceps</b> , delicate, straight, 1 x 2 teeth, length 10 cm
⑨	532013	<b>Tissue Forceps</b> , straight, with 7 x 8 fine teeth, length 13 cm
⑩	533212	<b>ADSON-BROWN Tissue Forceps</b> , atraumatic, fine side grasping teeth, length 12 cm
⑪	213411	<b>FISCH Scissors</b> , fine, curved, sharp/sharp, length 10.5 cm
⑫	511010	<b>Scissors</b> , extra delicate, straight, length 10 cm
⑬	512511	<b>Scissors</b> , with tungsten carbide inserts, blunt/blunt, curved, length 11 cm
⑭	512614	<b>METZENBAUM Scissors</b> , with tungsten carbide inserts, curved, length 14 cm
⑮	213314	<b>WULLSTEIN Scissors</b> , curved, sharp/sharp, length 14 cm
⑯	791202	<b>Scissors</b> , curved, sharp/blunt, length 14.5 cm
⑰	790902	<b>Scissors</b> , with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
⑱	792303	<b>Dressing Forceps</b> , narrow width, length 13 cm
⑲	792402	<b>Dressing Forceps</b> , medium width, length 14.5 cm
⑳	792602	<b>Dressing Forceps</b> , medium width, length 16 cm
㉑	214000	<b>WULLSTEIN Forceps</b> , serrated, length 15 cm
㉒	530710	<b>Dressing Forceps</b> , delicate, length 10 cm
㉓	477004	<b>HALLE Elevator</b> , width 4 mm, length 19 cm
㉔	212803	<b>LEMPERT Raspatory</b> , width 3 mm, length 19 cm
㉕	478000	<b>JOSEPH Raspatory</b> , slightly curved, length 17.5 cm
㉖	479408	<b>COTTLE Raspatory</b> , slightly curved, width 8 mm, length 19.5 cm
㉗	525500	<b>Rule</b> , stainless steel, flexible, length 20 cm
㉘	525510	<b>CASTROVIEJO Skin Measurement Caliper</b> , measurement range 0 – 15 mm, length 8 cm
㉙	403540	<b>KILLIAN-STRUYCKEN Nasal Speculum</b> , standard model, blade length 40 mm, length 13.5 cm
㉚	416800	<b>Nasal Probe</b> , curved, working length 11 cm, total length 18 cm
㉛	797114	<b>Myrtle Leaf Probe</b> , diameter 1.5 mm, length 14.5 cm
㉜	516012	<b>HALSEY Needle Holder</b> , tungsten carbide inserts, length 12 cm
㉝	516013	<b>Needle Holder</b> , tungsten carbide inserts, length 13 cm
㉞	516015	<b>Needle Holder</b> , tungsten carbide inserts, length 15 cm
㉟	516115	<b>RYDER Needle Holder</b> , tungsten carbide inserts, extra delicate, length 15 cm
㊱	517500	<b>Wire Twister Ligature Forceps</b> , with tungsten carbide inserts, length 15 cm
㊲	798020	<b>MATHIEU Needle Holder</b> , slender, tungsten carbide inserts, length 20 cm
㊳	203725	<b>Suction Tube</b> , cylindrical, LUER, outer diameter 2.5 mm, working length 11 cm
㊴	203730	<b>Same</b> , outer diameter 3 mm
㊵	203740	<b>Same</b> , outer diameter 4 mm
㊶	204200	<b>FISCH Suction Handle</b> , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330
	204202	<b>Same</b> , without cut-off hole (not illustrated)
	204005	<b>Suction Tube</b> , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm
㊷	204007	<b>Same</b> , outer diameter 0.7 mm
㊸	204013	<b>Same</b> , outer diameter 1.3 mm

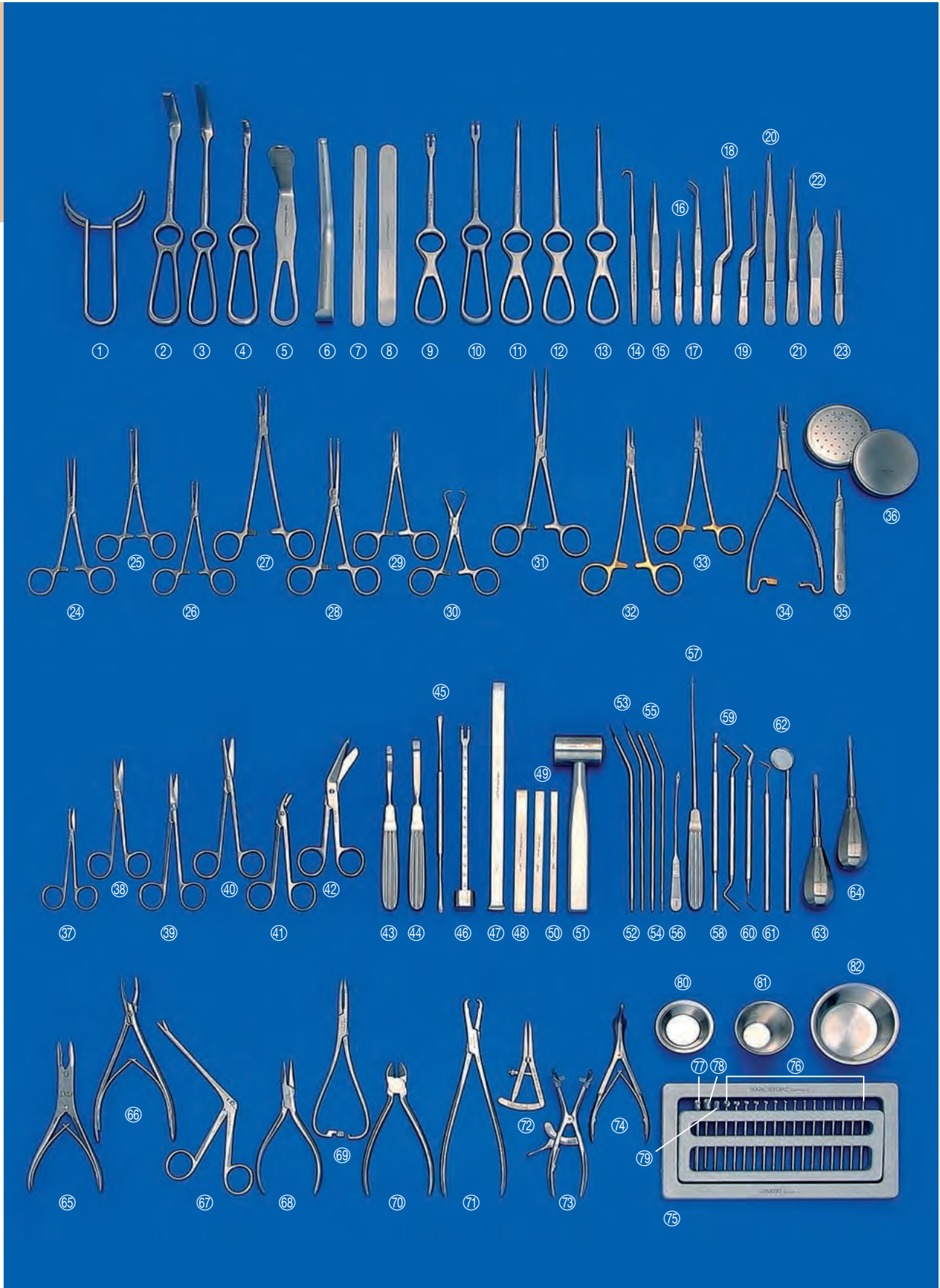




④5	842319	<b>Bipolar Coagulating Forceps</b> , insulated, angled tip, blunt, tip 1 mm, length 19 cm
	847000 E	<b>Bipolar High Frequency Cord</b> , for 842319/843116 (not illustrated)
④6	843116	<b>Bipolar Coagulating Forceps</b> , insulated, angular, pointed, length 16 cm
④7	20 5300 43	<b>Electrode Handle</b> , with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Connecting Cable 20 5200 45 is required)
	20 5300 44	<b>High Frequency Cord</b> , for Electrode Handle 20 5300 43, length 300 cm (not illustrated)
④8	26 5200 34	<b>KIRSCHNER Spatula Electrode</b> , straight
④9	26 5200 38	<b>Ball Electrode</b> , 4 mm
⑤0	497606	<b>Handle</b> , round, diameter 12.5 mm, length 12.5 cm, for use with Sculpture Knife 497603
⑤1	497603	<b>WEERDA Sculpture Knife</b> , for rhinoplasty, hollow, width 7 mm, length 8.5 cm, for use with Handle 497606
⑤2	497605	<b>Handle</b> , round, diameter 10.5 mm, length 12 cm, for use with Sculpture Knife 497602
⑤3	497602	<b>WEERDA Sculpture Knife</b> , for rhinoplasty, hollow, width 4.5 mm, length 8 cm, for use with Handle 497605
⑤4	535012	<b>HALSTEAD "Mosquito" Artery Forceps</b> , straight, length 12.5 cm
⑤5	535212	<b>HALSTEAD "Mosquito" Artery Forceps</b> , curved, length 12.5 cm
⑤6	536414	<b>CRILE Artery Forceps</b> , straight, length 14 cm
⑤7	795015	<b>ALLIS Forceps</b> , 4 x 5 teeth, length 15 cm
⑤8	755120	<b>HALLE-BIRKETT Forceps</b> , slender, straight, length 20 cm
⑤9	795012	<b>BABY-ALLIS Tissue Forceps</b> , 4 x 5 teeth, length 14 cm
⑥0	220211	<b>PLESTER Retractor</b> , 2 x 2 prongs, length 11 cm
⑥1	791711	<b>WEERDA Stitch Scissors</b> , laterally angled, length 11 cm
⑥2	754350	<b>Wire Cutting Scissors</b> , serrated, length 12.5 cm
⑥3	533213	<b>ADSON-BROWN Tissue Forceps</b> , micro-model, atraumatic, fine side grasping teeth, length 12 cm
⑥4	533211	<b>ADSON Tissue Forceps</b> , modified by WEERDA, atraumatic, fine side grasping teeth, tip curved 90°, length 12 cm
⑥5	797338	<b>Redon Guide Needle</b> , angled, with lancet tip, 8 Fr.
⑥6	797340	<b>Same</b> , 10 Fr.
⑥7	499001	<b>KILNER-GILLIES Hook</b> , one prong, small curve, length 17 cm
⑥8	499101	<b>Hook</b> , one prong, sharp curve, length 16.5 cm
⑥9	499202	<b>JOSEPH Double Hook</b> , sharp, width 2 mm, length 15 cm
⑦0	499205	<b>Same</b> , width 5 mm
⑦1	499207	<b>Same</b> , width 7 mm
⑦2	505110	<b>COTTLE Retractor</b> , two prongs, sharp, width 10 mm, length 14.5 cm
⑦3	786003	<b>Retractor</b> , sharp, 3 prongs, length 17 cm
⑦4	757410	<b>LUNIATSCHEK Tampon Plugger</b> , length 18 cm
⑦5	208000	<b>Surgical Handle</b> , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
⑦6	208011	<b>Blade</b> , Fig. 11, non-sterile, package of 100
⑦7	208015	<b>Same</b> , Fig. 15
⑦8	208019	<b>Same</b> , Fig. 19
⑦9	810806	<b>Cup Medicine</b> , 60 ccm, diameter 70 mm, height 33 mm
⑧0	810805	<b>Cup Medicine</b> , 50 ccm, diameter 57 mm, height 47 mm
⑧1	818600	<b>Medicine Dish</b> (opal glass), diameter 32 mm, colored
⑧2	810840	<b>Cup Medicine</b> , 400 ccm, diameter 130 mm, height 65 mm

# Dysgnathia Set

Basic Set



# Dysgnathia Set

## Basic Set

- ① 58157 L **Lip Retractor**, length 15 cm
- ② 801706 **KOCHER-LANGENBECK Retractor**, size 55 x 11 mm, length 21.5 cm
- ③ 58156 **Ramus Retractor**, 72 x 10 mm, length 22 cm
- ④ 801701 **KOCHER-LANGENBECK Retractor**, size 25 x 6 mm, length 21.5 cm
- ⑤ 740700 **HARTMANN Tongue Depressor**, length 17 cm
- ⑥ 58150 **Channel Retractor**, width 8 mm, length 16.5 cm
- ⑦ 635012 **Spatula**, malleable, width 12 mm, length 20 cm
- ⑧ 635017 **Same**, width 17 mm
- ⑨ 800502 **VOLKMANN Retractor**, blunt, 2 prongs, length 21 cm
- ⑩ 800422 **VOLKMANN Retractor**, semisharp, 2 prongs, 8.5 x 8 mm, length 22 cm
- ⑪ 800411 **VOLKMANN Retractor**, sharp, 1 prong, long curve for cheekbone, length 21 cm
- ⑫ 800401 **VOLKMANN Retractor**, sharp, 1 prong, length 21 cm
- ⑬ 800501 **Same**, blunt
- ⑭ 786201 **Retractor**, blunt, 1 prong, length 17 cm
- ⑮ 792401 **Dressing Forceps**, standard width, length 14.5 cm
- ⑯ 530710 **Dressing Forceps**, delicate, length 10 cm
- ⑰ 745715 **Dressing Forceps**, angled, length 15 cm
- ⑱ 426516 **JANSEN Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- ⑲ 156000 **LUCAE Ear Forceps**, bayonet-shaped, length 14.5 cm
- ⑳ 793918 **WAUGH Tissue Forceps**, 1 x 2 teeth, length 18 cm
- ㉑ 793601 **Tissue Forceps**, 1 x 2 teeth, standard width, length 16 cm
- ㉒ 533112 **ADSON Tissue Forceps**, 1 x 2 teeth, length 12 cm
- ㉓ 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- ㉔ 794014 **ROCHESTER-PEAN Artery Forceps**, straight, length 14 cm
- ㉕ 794514 **OCHSNER-KOCHER Artery Forceps**, straight, 1 x 2 teeth, length 14 cm
- ㉖ 535412 **HALSTEAD "Mosquito" Artery Forceps**, straight, 1 x 2 teeth, length 12.5 cm
- ㉗ 794228 **ADSON Artery Forceps**, curved 90°, slender, length 18 cm
- ㉘ 794216 **ROCHESTER-PEAN Artery Forceps**, curved, length 16 cm
- ㉙ 536224 **MIXTER Baby Dissecting and Ligature Forceps**, length 14 cm
- ㉚ 796011 **BACKHAUS Towel Forceps**, length 11 cm
- ㉛ 795820 **GROSS Dressing and Sponge Holding Forceps**, straight, with ratchet, length 20 cm
- ㉜ 798618 **HEGAR Needle Holder**, slender, tungsten carbide inserts, length 18 cm
- ㉝ 516015 **Needle Holder**, tungsten carbide inserts, length 15 cm
- ㉞ 798020 **MATHIEU Needle Holder**, slender, tungsten carbide inserts, length 20 cm
- ㉟ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
- ㊱ 517801 **Needle Case**, with perforated inner case
- ㊲ 213411 **FISCH Scissors**, fine, curved, sharp/sharp, length 10.5 cm
- ㊳ 791500 **Scissors**, for suture, straight, sharp/sharp, length 12.5 cm
- ㊴ 511314 **JOSEPH Scissors**, straight, length 14 cm
- ㊵ 511514 **METZENBAUM Scissors**, curved, length 14 cm
- ㊶ 754350 **Wire Cutting Scissors**, serrated, length 12.5 cm
- ㊷ 797514 **LISTER Bandage Scissors**, length 14 cm
- ㊸ 58126 **Raspatory**, strongly curved, width 6 mm, length 16 cm
- ㊹ 58120 **MUEHLING Raspatory**, curved, width 4 mm, length 16 cm
- ㊺ 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm

# Dysgnathia Set

## Basic Set

46	58100	<b>Septum Osteotome</b> , width 4 mm, length 18.5 cm
47	58101	<b>Osteotome</b> , curved, width 11 mm, length 23.5 cm
48	58110	LAMBOTTE <b>Osteotome</b> , width 10 mm, length 12.5 cm
49	58108	<b>Same</b> , width 8 mm
50	58106	<b>Same</b> , width 6 mm
51	174200	COTTLE <b>Metal Mallet</b> , length 18 cm
52	797344	<b>Redon Guide Needle</b> , angled, with lancet tip, 14 Fr.
53	797340	<b>Same</b> , 10 Fr.
54	797342	<b>Same</b> , 12 Fr.
55	797338	<b>Same</b> , 8 Fr.
56	58198	<b>Mandibular Awl</b> , length 14 cm
57	58199	<b>Awl for Zygomatic Arch</b> , length 23 cm
58	58970	LUNIATSCHEK <b>Gauze Packer</b> , double-ended, straight/curved, size 1, length 18 cm
59	58964	LUCAS <b>Bone Curette</b> , length 17.5 cm
60	58958 R	HEIDEMANN <b>Spatula</b> , length 18.5 cm
61	58960 ZR	<b>Dental Probe</b> , fine, flexible, length 15.5 cm
62	58950 G	<b>Handle for Mouth Mirrors</b> , length 12.5 cm, for use with 58950 ES
	58950 ES	<b>Mouth Mirror</b> , non-magnifying, diameter 22 mm, for use with 58950 G (not illustrated)
63	58983	BEIN <b>Root Elevator</b> , round, 3 mm
64	58984	<b>Same</b> , 4 mm
65	489044	LUER-RUSKIN <b>Rongeur</b> , with double joint, curved, 2 mm, length 15 cm
66	200400	BEYER <b>Rongeur</b> , slender, curved, length 17 cm
67	456002	BLAKESLEY <b>Nasal Forceps</b> , straight, size 2, working length 11 cm
68	58141	<b>Flat-Nosed Forceps</b> , with serrated jaws, length 14 cm
69	58142	KORKHAUS <b>Wire and Ligature Forceps</b> , length 16.5 cm
70	58140	REILL <b>Wire Cutting Forceps</b> , with tungsten carbide inserts, length 17.5 cm
71	58160	<b>Bone Holding Forceps</b> , length 20 cm
72	525510	CASTROVIEJO <b>Skin Measurement Caliper</b> , measurement range 0 – 15 mm, length 8 cm
73	58195	DEHNHARDT <b>Mouth Gag</b> , length 12.5 cm
74	400500	HARTMANN <b>Nasal Speculum</b> , for adults, length 13 cm
75	280035	<b>Rack</b> , for 54 straight shaft burs with a length of 5 cm (36 pcs) and 7 cm (18 pcs), foldable, sterilizable, size 22 x 12.5 x 3 cm
76	260000	<b>Standard Straight Shaft Burr</b> , stainless, sizes 006 – 070, length 7 cm, set of 15
	263521	LINDEMANN <b>Burr</b> , conical, stainless, sterilizable, size 021, diameter 2.1 mm, length 7 cm (not illustrated)
77	265060	<b>Diamond Straight Shaft Burr</b> , cylindrical, size 060, diameter 6 mm, length 7 cm
78	265070	<b>Diamond Straight Shaft Burr</b> , cylindrical, size 070, diameter 7 mm, length 7 cm
79	265050	<b>Diamond Straight Shaft Burr</b> , cylindrical, size 050, diameter 5 mm, length 7 cm
80	810802	<b>Cup Medicine</b> , 25 ccm, diameter 60 mm, height 28 mm
81	810805	<b>Cup Medicine</b> , 50 ccm, diameter 57 mm, height 47 mm
82	810810	<b>Cup Medicine</b> , 100 ccm, diameter 80 mm, height 30 mm

# Dysgnathia Set

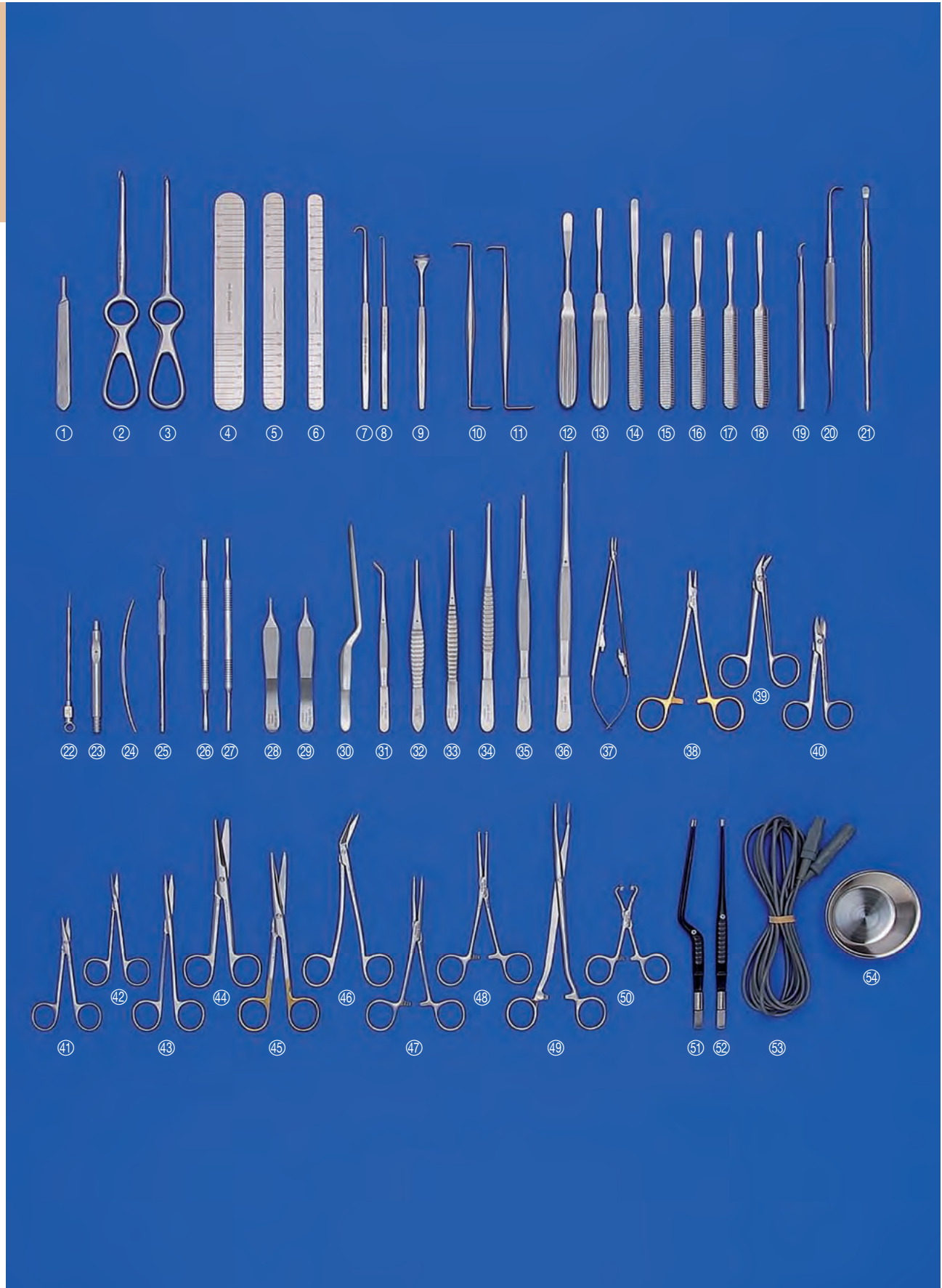
## Basic Set

**not illustrated:**

40711801-1	<b>UNIDRIVE® OMFS SCB</b> , power supply 100 – 240 VAC, 50/60 Hz including: <b>Mains Cord</b> <b>Two-Pedal Footswitch</b> , two-stage, with proportional function <b>Silicone Tubing Set</b> , for irrigation, sterilizable <b>Clip Set</b> , for use with Tubing Set 20 7116 40 <b>SCB Connecting Cable</b>
20 7110 32	<b>High Performance EC Micro Motor</b> , for use with KARL STORZ UNIDRIVE®II motor system
20 7110 72	<b>Connecting Cable</b> , to connect High Performance EC Motor 20 7110 32 to control unit
280052 B	<b>Universal Spray</b> , 500 ml bottle, for use with Spray Diffuser 280052 C - HAZARDOUS GOODS - UN 1950
280052 C	<b>Spray Diffuser</b> , for use with Universal Spray 280052 B
252495	<b>INTRA Drill Handpiece</b> , straight, long shape, length 10.4 cm, for use with straight shaft burrs, transmission 1:1 (40,000 rpm)
252475	<b>INTRA Drill Handpiece</b> , angled, length 12.5 cm, for use with straight shaft burrs, transmission 1:1 (40,000 rpm)
280052	<b>Universal Spray</b> , 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
39552 A	<b>Wire Tray</b> , 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 <b>not</b> included <b>for storage:</b> – Up to 6 drill handpieces – Connecting cable – EC micro motor – Small parts
254200	<b>Osseo Scalpel, Micro Saw</b> , with axial/sagittal cut, pendulum stroke, especially appropriate for 3-dimensional incision guiding, integrated irrigation tube, max. recommended maximum speed 20,000 rpm, without saw blades, with fork wrench
254235	<b>Saw Blade</b> , blade thickness 0.35 mm, working length 12 mm, package of 12, for use with 254200
254236	<b>Saw Blade</b> , blade thickness 0.35 mm, working length 18 mm, package of 12, for use with 254200
254237	<b>Saw Blade</b> , blade thickness 0.35 mm, working length 24 mm, package of 12, for use with 254200
39553 A	<b>Wire Tray</b> , provides safe storage of accessories for the KARL STORZ micro saw system during cleaning and sterilization, includes basket for small parts <b>for storage of:</b> – Up to 6 saw handpieces – Connecting cable – EC micro motor – Saw blades

# Set for Reconstructive Orbital Surgery <sup>NEW</sup>

Basic Set



# Set for Reconstructive Orbital Surgery <sup>NEW</sup>

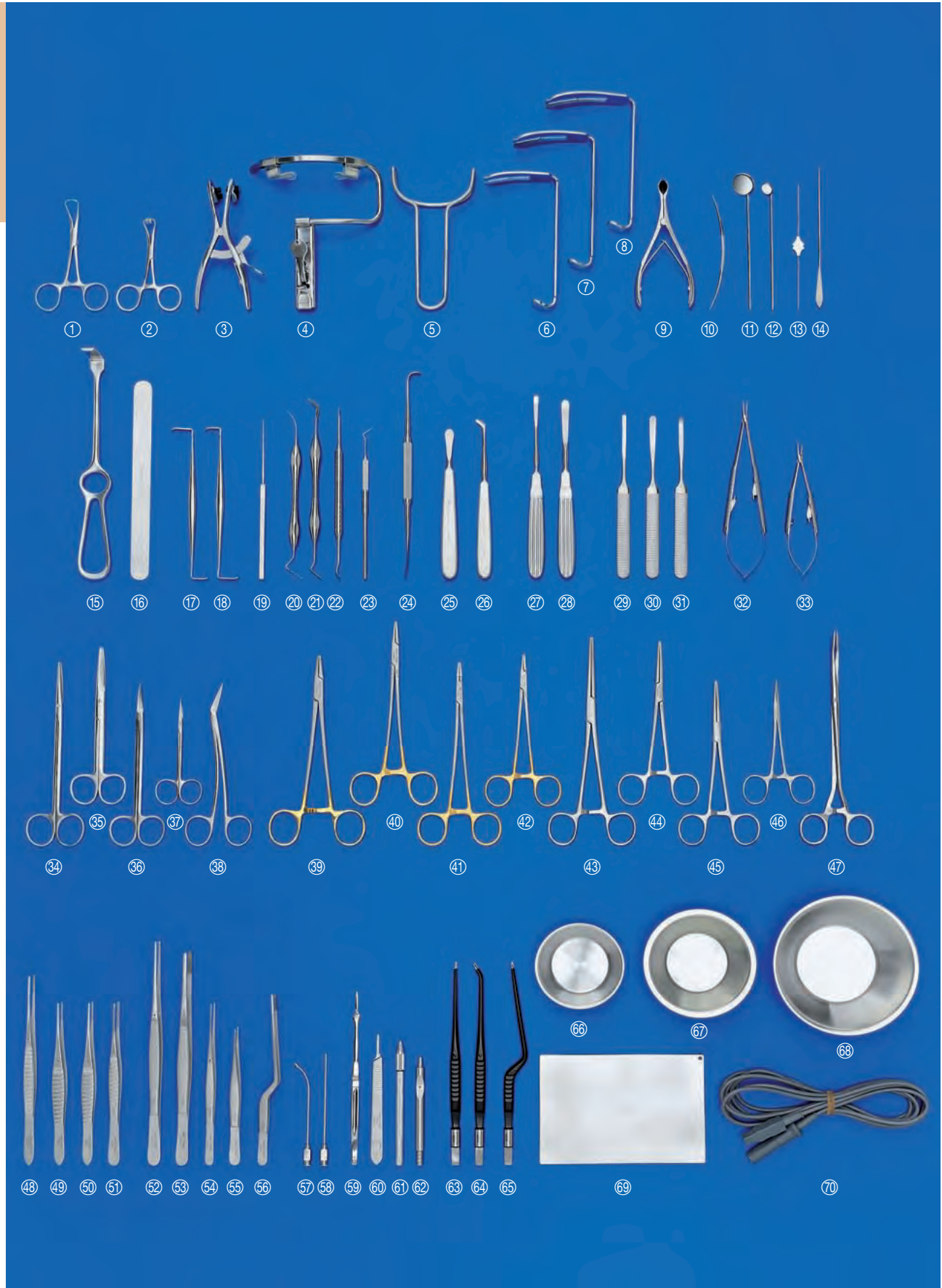
Basic Set

## HANNOVER Recommended Set

①	208000	<b>Surgical Handle</b> , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
②	800411	<b>VOLKMANN Retractor</b> , sharp, 1 prong, long curve for cheekbone, length 21 cm
③	800401	<b>VOLKMANN Retractor</b> , sharp, 1 prong, length 21 cm
④	635122	<b>Orbital Spatula</b> , with double graduation, width 22 mm, length 20 cm
⑤	635117	<b>Same</b> , width 17 mm
⑥	635112	<b>Same</b> , width 12 mm
⑦	786201	<b>Retractor</b> , blunt, 1 prong, length 17 cm
⑧	499101	<b>Hook</b> , one prong, sharp curve, length 16.5 cm
⑨	498400	<b>COTTLE Retractor</b> , narrow (standard model), length 14 cm
⑩	505600	<b>SENN Retractor</b> , double-ended, blunt, length 15 cm
⑪	506505	<b>SENN Retractor</b> , double-ended, blunt, longer blade 5 mm, length 15 cm
⑫	58127 O	<b>Raspatory</b> , flat, width 7 mm, length 17.5 cm
⑬	58124 O	<b>Raspatory</b> , flat, width 4 mm, length 18 cm
⑭	28164 MDG	<b>Raspatory</b> , inner side sharp, 5.5 mm, working length 9 cm
⑮	58126 W	<b>WILLIGER Raspatory</b> , curved, width 6 mm, length 16 cm
⑯	58126 BRG	<b>WILLIGER Raspatory</b> , flat, width 6 mm, length 16 cm
⑰	58124 KWG	<b>KAHRE-WILLIGER Raspatory</b> , curved, width 4 mm, length 16 cm
⑱	169503	<b>WILLIGER Elevator</b> , width 3.5 mm, length 16 cm
⑲	58960 K	<b>Dental Calculus Hook</b> , curved upwards, double-sided grinding, length 15 cm
⑳	58122 OD	<b>Raspatory</b> , for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm
㉑	58961 LS	<b>Periosteal Elevator</b> , double-ended, rounded elevator 2.8 mm/lancet 3.4 mm
㉒	204320	<b>Suction Tube</b> , straight, LUER-Lock, malleable, outer diameter 2 mm, length 10 cm
㉓	204001	<b>Adaptor</b> , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 10 cm
㉔	745950	<b>ZIEGLER Needle Probe</b> , double-ended, length 10.5 cm
㉕	58960 ZR	<b>Dental Probe</b> , fine, flexible, length 15.5 cm
㉖	58970	<b>LUNIATSCHEK Gauze Packer</b> , double-ended, straight/curved, size 1, length 18 cm
㉗	58971	<b>Same</b> , size 2
㉘	533012	<b>ADSON Dressing Forceps</b> , serrated, length 12 cm
㉙	2x 533312	<b>ADSON Tissue Forceps</b> , serrated, 1 x 2 teeth, length 12 cm
㉚	426516	<b>JANSEN Nasal Dressing Forceps</b> , bayonet-shaped, length 16.5 cm
㉛	745715	<b>Dressing Forceps</b> , angled, length 15 cm
㉜	793216	<b>GILLIES Tissue Forceps</b> , serrated, 1 x 2 teeth, length 15.5 cm
㉝	793918	<b>WAUGH Tissue Forceps</b> , 1 x 2 teeth, length 18 cm
㉞	530420	<b>"ATRAUMA" Atraumatic Tissue Forceps</b> , width of jaws 2 mm, length 20 cm
㉟	793220	<b>WAUGH Tissue Forceps</b> , serrated, 1 x 2 teeth, length 20 cm
㊱	793225	<b>WAUGH Tissue Forceps</b> , serrated, 1x 2 teeth, length 25 cm
㊲	214560	<b>CASTROVIEJO Needle Holder</b> , spring-action, curved, with ratchet, length 18 cm
㊳	516015	<b>Needle Holder</b> , tungsten carbide inserts, length 15 cm
㊴	754350	<b>Wire Cutting Scissors</b> , serrated, length 12.5 cm
㊵	754355	<b>BEEBEE Wire Cutting Scissors</b> , straight, length 10.5 cm
㊶	513310	<b>STEVENS Scissors</b> , curved, length 10.5 cm
㊷	213411	<b>FISCH Scissors</b> , fine, curved, sharp/sharp, length 10.5 cm
㊸	791815	<b>REYNOLDS Dissecting Scissors</b> , curved, delicate tips, length 15 cm
㊹	791903	<b>MAYO Scissors</b> , straight, length 15 cm
㊺	792026	<b>MAYO-LEXER Scissors</b> , with tungsten carbide inserts, curved, narrow blades, length 16 cm
㊻	58182	<b>LOCKLIN Gum Scissors</b> , serrated, length 16 cm
㊼	2x 794214	<b>ROCHESTER-PEAN Artery Forceps</b> , curved, length 14 cm
㊽	2x 794514	<b>OCHSNER-KOCHER Artery Forceps</b> , straight, 1 x 2 teeth, length 14 cm
㊾	748220	<b>DUPLAY Dressing and Sponge Holding Forceps</b> , curved, with ratchet, length 21 cm
㊿	2x 796109	<b>Towel Forceps</b> , with serrated inserts, length 9.5 cm, for paper cover sheets
1	844219	<b>Bipolar Coagulating Forceps</b> , insulated, bayonet-shaped, blunt, tip 1 mm, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
2	841219	<b>Bipolar Coagulating Forceps</b> , insulated, straight, blunt, tip 1 mm, length 19 cm
3	847000 E	<b>Bipolar High Frequency Cord</b> , to 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, length 300 cm
4	2x 810810	<b>Cup Medicine</b> , 100 ccm, diameter 80 mm, height 30 mm
5	58900 G	<b>GELLRICH Bone Preparation Block</b> , for preparing cartilage and bone in dental surgery, width 7 cm, length 12.5 cm (not illustrated)

# Cleft Lip and Palate <sup>NEW</sup>

Basic Set





# Cleft Lip and Palate

NEW

## Basic Set

① 4x 796011	BACKHAUS <b>Towel Forceps</b> , length 11 cm	③⑨ 798718	HEGAR-MAYO <b>Needle Holder</b> , robust, tungsten carbide inserts, length 18 cm
② 796109	<b>Towel Forceps</b> , with serrated inserts, length 9.5 cm, for paper cover sheets	④⑩ 516117	RYDER <b>Needle Holder</b> , tungsten carbide inserts, extra delicate, length 17 cm
③ 58195	DEHNHARDT <b>Mouth Gag</b> , length 12.5 cm	④① 798618	HEGAR <b>Needle Holder</b> , slender, tungsten carbide inserts, length 18 cm
④ 744510	DAVIS-MEYER <b>Mouth Gag</b> , special model, reverse opening, with 2 movable Tooth Hooks 744501, for use with Tongue Blades 743910 – 744505	④② 516015	<b>Needle Holder</b> , tungsten carbide inserts, length 15 cm
⑤ 2x 58157 L	<b>Lip Retractor</b> , length 15 cm	④③ 2x 794020	ROCHESTER-PEAN <b>Artery Forceps</b> , straight, length 20 cm
⑥ 744301	<b>Tongue Blade</b> , WÜRZBURG model, slotted, size 1	④④④⑤ 794516	OCHSNER-KOCHER <b>Artery Forceps</b> , straight, 1 x 2 teeth, length 16 cm
⑦ 744302	<b>Same</b> , size 2	④⑥ 6x 535212	HALSTEAD “Mosquito” <b>Artery Forceps</b> , curved, length 12.5 cm
⑧ 744303	<b>Same</b> , size 3	④⑦ 748220	DUPLAY <b>Dressing and Sponge Holding Forceps</b> , curved, with ratchet, length 21 cm
⑨ 400600	HARTMANN <b>Nasal Speculum</b> , for children, length 13 cm	④⑧ 793918	WAUGH <b>Tissue Forceps</b> , 1 x 2 teeth, length 18 cm
⑩ 745950	ZIEGLER <b>Needle Probe</b> , double-ended, length 10.5 cm	④⑨⑤⑩ 793216	GILLIES <b>Tissue Forceps</b> , serrated, 1 x 2 teeth, length 15.5 cm
⑪ 768106	<b>Mouth Mirror</b> , with RHODIUM front surface, autoclavable, without handle, stem without thread, size 6	⑤① 530416	“ATRAUMA” <b>Atraumatic Tissue Forceps</b> , length 16 cm
⑫ 768101	<b>Same</b> , size 1	⑤② 793220	WAUGH <b>Tissue Forceps</b> , serrated, 1 x 2 teeth, length 20 cm
⑬ 745800	BOWMAN <b>Salivary Duct Probe</b> , size 00 – 0, diameter 0.7 and 0.8 mm, length 13 cm	⑤③ 750000	<b>Forceps</b> , serrated, width 4 mm, length 20 cm
⑭ 797114	<b>Myrtle Leaf Probe</b> , diameter 1.5 mm, length 14.5 cm	⑤④ 214200	WULLSTEIN <b>Forceps</b> , 1 x 2 teeth, length 15 cm
⑮ 2x 58154	<b>Retractor</b> , solid, straight, size 40 x 13 mm, length 21.5 cm	⑤⑤ 792303	<b>Dressing Forceps</b> , narrow width, length 13 cm
⑯ 635017	<b>Spatula</b> , malleable, width 17 mm, length 20 cm	⑤⑥ 426516	JANSEN <b>Nasal Dressing Forceps</b> , bayonet-shaped, length 16.5 cm
⑰⑱ 505600	SENN <b>Retractor</b> , double-ended, blunt, length 15 cm	⑤⑦ 586020	<b>Antrum Cannula</b> , LUER-Lock, long curve, with olive, without grip plate, outer diameter 2 mm, length 9 cm
⑲ 499101	<b>Hook</b> , one prong, sharp curve, length 16.5 cm	⑤⑧ 3x 204320	<b>Suction Tube</b> , straight, LUER-Lock, malleable, outer diameter 2 mm, length 10 cm
⑳ 58961 SS	<b>Palpation Probe</b> , scaled, length 17 cm	⑤⑨ 2x 748000	<b>Surgical Handle</b> , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
㉑ 58958 R	HEIDEMANN <b>Spatula</b> , length 18.5 cm	⑥⑩ 208000	<b>Surgical Handle</b> , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
㉒ 58961 LS	<b>Periosteal Elevator</b> , double-ended	⑥① 770600	<b>Handle</b> , with central screw connection, length 11.5 cm, for mouth mirrors
㉓ 58960 ZR	<b>Dental Probe</b> , fine, flexible, length 15.5 cm	⑥② 204001	<b>Adaptor</b> , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 10 cm
㉔ 58122 OD	<b>Raspatory</b> , for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm	⑥③ 841219	<b>Bipolar Coagulating Forceps</b> , insulated, straight, blunt, tip 1 mm, length 19 cm
⑳ 58128 T	TRELAT <b>Raspatory</b> , width 8 mm, length 15 cm	⑥④ 842219	<b>Same</b> , angled tip, tip 2 mm
㉖ 58969	<b>Syndesmotome</b> , angled, length 16 cm	⑥⑤ 844219	<b>Same</b> , bayonet-shaped, tip 1 mm
㉗ 58124 O	<b>Raspatory</b> , flat, width 4 mm, length 18 cm	⑥⑥ 2x 810810	<b>Cup Medicine</b> , 100 ccm, diameter 80 mm, height 30 mm
㉘ 58127 O	<b>Raspatory</b> , flat, width 7 mm, length 17.5 cm	⑥⑦ 2x 810820	<b>Cup Medicine</b> , 200 ccm, diameter 100 mm, height 50 mm
㉙ 169503	WILLIGER <b>Elevator</b> , width 3.5 mm, length 16 cm	⑥⑧ 810840	<b>Cup Medicine</b> , 400 ccm, diameter 130 mm, height 65 mm
⑳ 58126 BRG	WILLIGER <b>Raspatory</b> , flat, width 6 mm, length 16 cm	⑥⑨ 523913	<b>Metal Tray</b> , for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
㉑ 58124 KWG	KAHRE-WILLIGER <b>Raspatory</b> , curved, width 4 mm, length 16 cm	⑦⑩ 847000 E	<b>Bipolar High Frequency Cord</b> , 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, length 300 cm
㉒ 799218	BARRAQUER <b>Micro Needle Holder</b> , with round spring handle, curved, smooth-coated jaws, with ratchet, length 18 cm		
㉓ 799414	BARRAQUER <b>Micro Needle Holder</b> , with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm		
㉔ 752918	METZENBAUM <b>Scissors</b> , curved, length 18 cm		
㉕ 791903	MAYO <b>Scissors</b> , straight, length 15 cm		
㉖ 58180	KELLY <b>Scissors</b> , sharp/sharp, curved, length 15.5 cm		
㉗ 213411	FISCH <b>Scissors</b> , fine, curved, sharp/sharp, length 10.5 cm		
㉘ 58182	LOCKLIN <b>Gum Scissors</b> , serrated, length 16 cm		

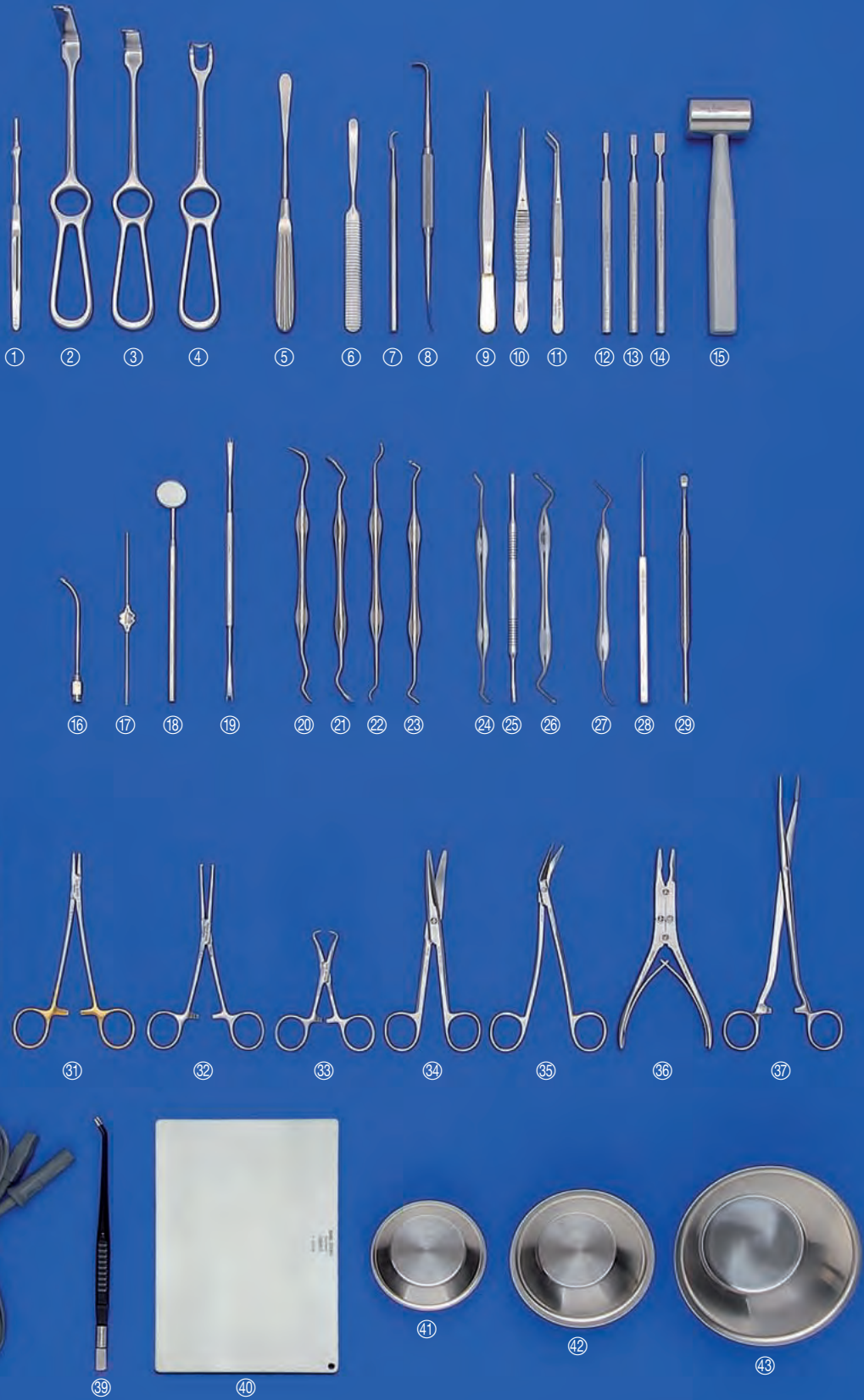
# Set for Alveolar Ridge Augmentation

NEW

Basic Set

**STORZ**  
KARL STORZ — ENDOSKOPE

CHAPTER 5 / 8



10-11

# Set for Alveolar Ridge Augmentation

NEW

Basic Set

## HANNOVER Recommended Set

①	748000	<b>Surgical Handle</b> , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
②	58153	<b>Retractor</b> , solid, straight, size 60 x 13 mm, length 21.5 cm
③	58154	<b>Retractor</b> , solid, straight, size 40 x 13 mm, length 21.5 cm
④	801201	<b>MIDDELDORPF Retractor</b> , with grid handle, small, size 1, 15 x 15 mm, length 20 cm
⑤	479408	<b>COTTLE Raspatory</b> , slightly curved, width 8 mm, length 19.5 cm
⑥	58126 BRG	<b>WILLIGER Raspatory</b> , flat, width 6 mm, length 16 cm
⑦	58960 K	<b>Dental Calculus Hook</b> , curved upwards, double-sided grinding, length 15 cm
⑧	58122 OD	<b>Raspatory</b> , for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm
⑨	792318	<b>Dressing Forceps</b> , tungsten carbide inserts, width 1.8 mm, length 18 cm
⑩	793216	<b>GILLIES Tissue Forceps</b> , serrated, 1 x 2 teeth, length 15.5 cm
⑪	745715	<b>Dressing Forceps</b> , angled, length 15 cm
⑫	58103 OM	<b>Osteotome</b> , flat, double-edged grinding, width 3 mm, length 15.5 cm
⑬	58104 OM	<b>Same</b> , width 4 mm
⑭	58107 OM	<b>Same</b> , width 7 mm
⑮	174200	<b>COTTLE Metal Mallet</b> , length 18 cm
⑯	586020	<b>Antrum Cannula</b> , LUER-Lock, long curved, with olive, without grip plate, outer diameter 2 mm, length 9 cm
⑰	745802	<b>BOWMAN Salivary Duct Probe</b> , size 1 – 2, diameter 0.9 and 1.1 mm, length 13 cm
⑱	58950 G	<b>Handle for Mouth Mirrors</b> , length 12.5 cm, for use with Mouth Mirror 58950 ES
	58950 ES	<b>Mouth Mirror</b> , non-magnifying, diameter 22 mm, for use with Handle 58950 G
	58973	<b>BORMANN Positioning Instrument</b> , 3-toothed, straight/curved, length 20 cm
⑲	58961 SC	<b>Sinus Lift Elevator</b> , double-ended, blunt/blunt, S-shaped, short/long curve, length 19.5 cm
⑳	58961 SB	<b>Sinus Lift Elevator</b> , double-ended, sharp/sharp, double curve left/right, length 19.5 cm
㉑	58961 SD	<b>Sinus Lift Elevator</b> , double-ended, blunt/blunt, bayonet-shaped, short/long curve, length 19.5 cm
㉒	58961 E	<b>White Excavator</b> , double-ended, Fig. 19, length 17.5 cm
㉓	58958 R	<b>HEIDEMANN Spatula</b> , length 18.5 cm
㉔	58971	<b>LUNIATSCHEK Gauze Packer</b> , double-ended, straight/curved, size 2, length 18 cm
㉕	58962 R	<b>HEMINGWAY Dental Curette</b> , double-ended, size 1, length 18.5 cm
㉖	58961 SS	<b>Palpation Probe</b> , scaled, length 17 cm
㉗	2x 499001	<b>KILNER-GILLIES Hook</b> , one prong, small curve, length 17 cm
㉘	58961 LS	<b>Periosteal Elevator</b> , double-ended, rounded elevator 2.8 mm/lancet 3.4 mm
㉙	2x 214555	<b>Needle Holder</b> , spring-action, curved, without ratchet, length 16 cm
㉚	516015	<b>Needle Holder</b> , tungsten carbide inserts, length 15 cm
㉛	2x 794514	<b>OCHSNER-KOCHER Artery Forceps</b> , straight, 1 x 2 teeth, length 14 cm
㉜	4x 796008	<b>BACKHAUS Towel Forceps</b> , length 8 cm
㉝	792003	<b>MAYO Scissors</b> , curved, length 15 cm
㉞	58182	<b>LOCKLIN Gum Scissors</b> , serrated, length 16 cm
㉟	489044	<b>LUER-RUSKIN Rongeur</b> , with double joint, curved, 2 mm, length 15 cm
㊱	748220	<b>DUPLAY Dressing and Sponge Holding Forceps</b> , curved, with ratchet, length 21 cm
㊲	847000 E	<b>Bipolar High Frequency Cord</b> , 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, length 300 cm
㊳	842219	<b>Bipolar Coagulating Forceps</b> , insulated, angled tip, blunt, tip 2 mm, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
㊴	523913	<b>Metal Tray</b> , for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
㊵	810810	<b>Cup Medicine</b> , 100 ccm, diameter 80 mm, height 30 mm
	810820	<b>Cup Medicine</b> , 200 ccm, diameter 100 mm, height 50 mm
	810840	<b>Cup Medicine</b> , 400 ccm, diameter 130 mm, height 65 mm
㊶	58900 G	<b>GELLRICH Bone Preparation Block</b> , for preparing cartilage and bone in dental surgery, width 7 cm, length 12.5 cm (not illustrated)

**Further Instruments and Recommended Sets** see chapter 5, TELESCOPES AND INSTRUMENTS FOR DENTAL SURGERY

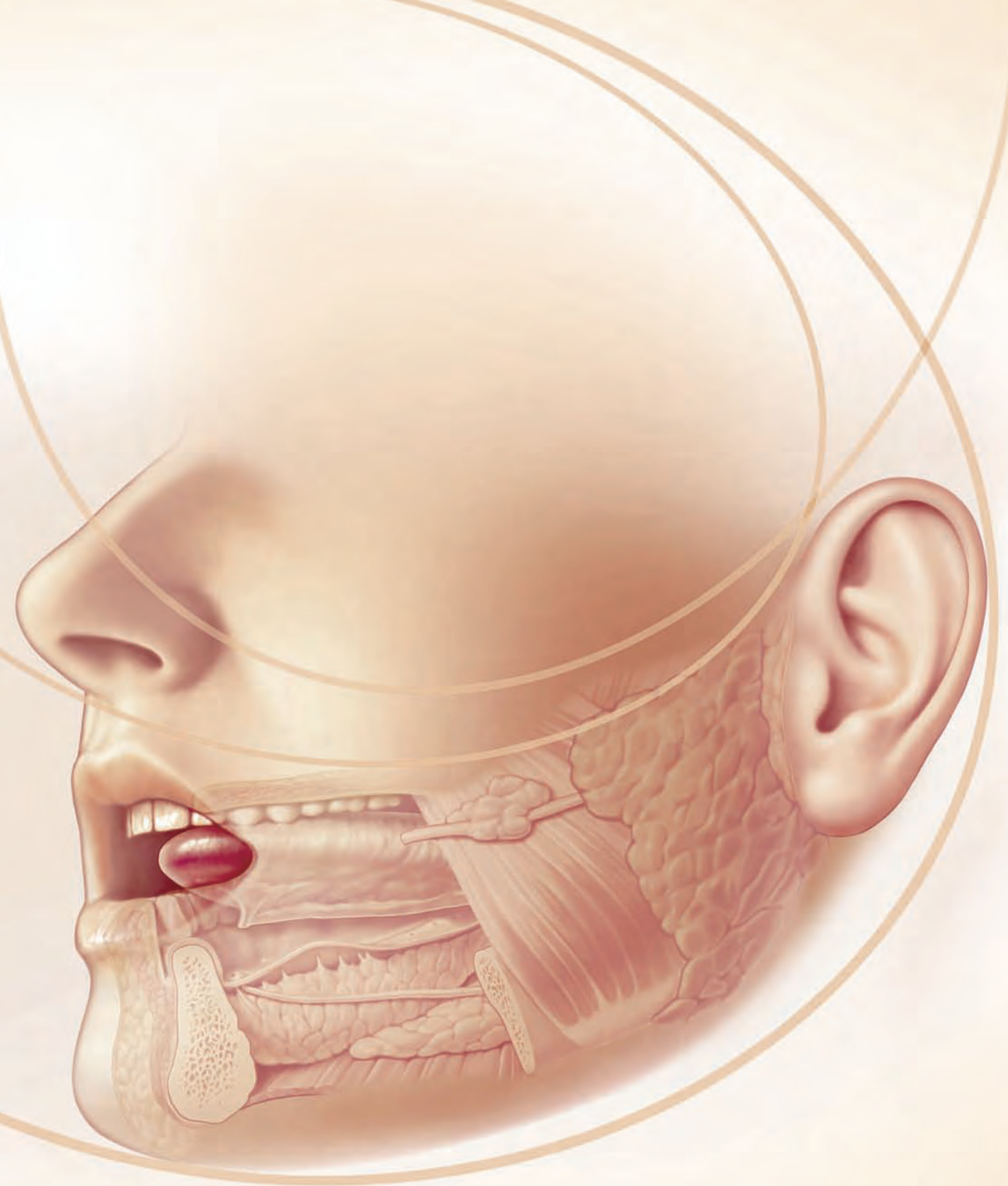
# Instruments for Dissection

Basic Set for Dental Surgery

Set recommended by SCHLEIER, M. D.



- ① 208000 **Surgical Handle**, Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
- ② 792603 **Dressing Forceps**, narrow width, length 16 cm
- ③ 793603 **Tissue Forceps**, 1 x 2 teeth, narrow, length 16 cm
- ④ 58180 **KELLY Scissors**, sharp/sharp, curved, length 15.5 cm
- ⑤ 798418 **HEGAR Needle Holder**, slender, length 18 cm
- ⑥ 586031 v. **EICKEN Antrum Cannula**, LUER-Lock, with cut-off hole, long curve, outer diameter 3 mm, length 12.5 cm
- ⑦ 655016 **Elevator for Sinuslift**, double-ended, distal end straight/30° curved downwards, slightly spoon-shaped, working length 4 cm
- ⑧ 655018 **Elevator for Sinuslift**, double-ended, distal end 45°/90° curved downwards, working length 4 cm
- ⑨ 474200 **FREER-JOSEPH Elevator**, double-ended, slender, semisharp and sharp, length 20 cm
- 239728 S **Metal Tray**, for sterilization and storage of oral surgery basic set, perforated, lid with silicone bridges, external dimensions (w x d x h): 275 x 178 x 24 mm (not illustrated)

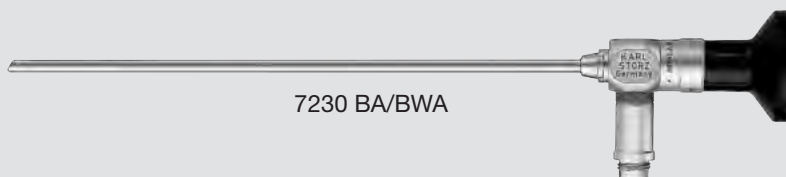


**TELESCOPES AND INSTRUMENTS  
FOR ENDOSCOPIC  
FRACTURE TREATMENT**

# HOPKINS® II Telescopes

autoclavable

Diameter 4 mm, length 18 cm



7230 BA/BWA



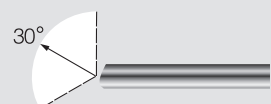
7230 AA

**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 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



723750 B

723750 B

**Protection Tube**, working length 19.7 cm, for use with HOPKINS® telescopes with a length of 18 cm

## Optical Dissectors

### Endoscopically-assisted intraoral treatment of mandibular fractures

The conservative treatment of mandibular fractures is widespread. Satisfactory functioning of the temporomandibular joint is not always achieved by forced adaptation in the case of altered temporomandibular joint morphology.

In terms of the surgical treatment of mandibular fractures, the use of the miniplate fixation technique for stabilization following anatomic reduction, as well as for avoiding intermaxillary fixation, has stood the test of time. Extra and intraoral approaches are described for the surgical treatment of mandibular fractures.

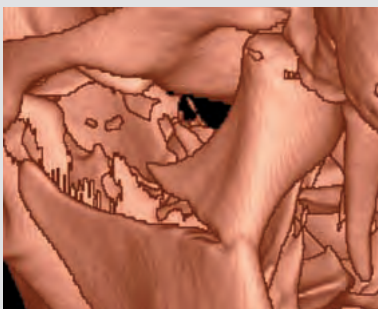
As a result of the limited intraoral incisions made during the endoscopically assisted treatment of condylar process fractures, damage to the facial nerve and visible scars are avoided. The intraoral approach saves time. A bloodless optical cavity, which is an important requirement for an endoscopic procedure, is created by the infiltration of local anesthesia containing vasoconstricting elements and by strictly subperiosteal dissection. Right-angled burrs and screwdrivers are

used for purely transoral reduction and osteosynthesis. A precise endoscopic examination of the completed repositioning can be safely performed even in the difficult to visualize dorsal area of the ascending mandibular ramus.

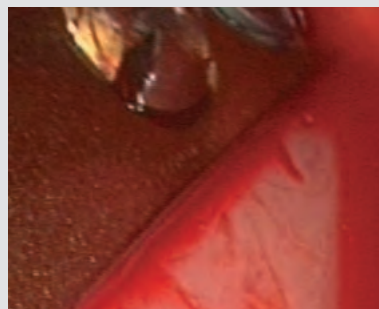
The endoscopically-assisted transoral treatment of mandibular fractures using right-angled screwdrivers has also proven its worth in the treatment of dislocated fractures, and is the method of choice for the open reduction of condylar process fractures.

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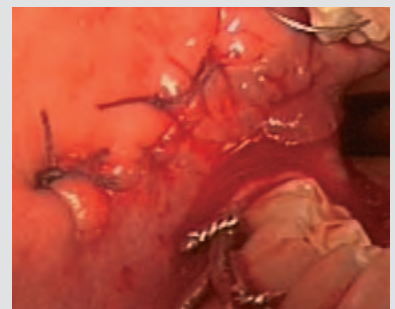
*Prof. Dr. Dr. R. SCHMELZEISEN,  
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**Fig. 1a:** Three-dimensional CT of a dislocated condylar process fracture.



**Fig. 1b:** Intraoperative endoscopic image of the dorsal edge of the ascending mandibular ramus following transoral anatomical fracture positioning and fixation.



**Fig. 1c:** Precise repositioning is achieved through a limited transoral incision.



**Fig. 1d:** Preoperative panoramic view of the reduction of the ascending ramus with resulting malocclusion.



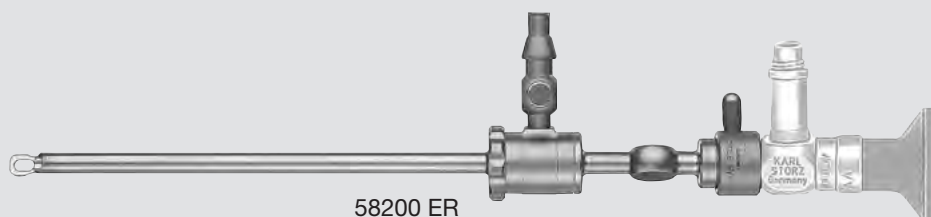
**Fig. 1e:** Postoperative panoramic view of the restored vertical ramus height through transoral endoscopically assisted osteosynthesis. Normal functioning of the mandibular joint and occlusion is achieved.



**Fig. 1f:** Repositioning and fixation of the dislocated condylar process fracture with the transoral endoscopically assisted technique.

# Optical Dissectors, Retractor

For use with HOPKINS® II Telescopes, diameter 4 mm, length 18 cm



58200 ER



**NEW**

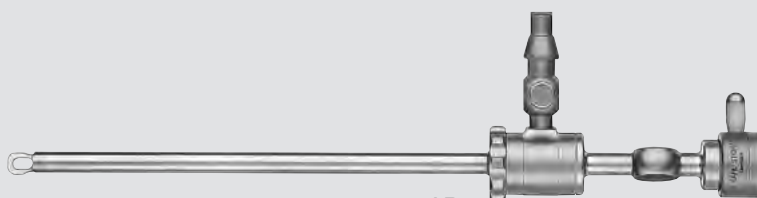
58200 ER

**Optical Dissector**, with distal spatula, fenestrated, straight, blunt, for use with HOPKINS® II Telescopes 7230 BA/BWA



58200 ES

**Same**, large, sharp



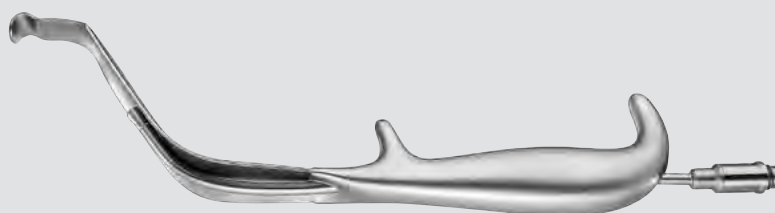
58200 AR



**NEW**

58200 AR

**Optical Dissector**, with distal spatula, fenestrated, straight, small, blunt, for use with HOPKINS® II Telescopes 7230 AA/AWA



58150 LH

**NEW** 58150 LH

**Light Retractor with Light Carrier**, size 40 x 13 mm, length 21.5 cm



## Instruments

Oral and maxillofacial surgical procedures place great demands on the surgeon's fine motor skills and require lightweight and well-balanced instruments. To meet these needs, KARL STORZ developed special instruments.

Due to their length and robust construction, these instruments can be used for all operations in the sensitive facial area, ranging from facelifts to trauma care through to reconstructive surgery. The special surface design ensures that the user has a secure grip in all situations.

### Benefits:

- **Very light**
- **Very easy to handle thanks to perfect weight distribution**
- **No ripping of gloves due to high-quality surface finish**
- **Long instrument life combined with optimum cost-effectiveness**



## straight



58210 BA



58210 BA

**Raspatory**, straight, width 6 mm,  
working length 15 cm



58210 CA

**Raspatory**, straight, spatula 12 x 12 mm,  
working length 15 cm

## curved



58210 TKA



58210 TKA

**Raspatory**, curved, width 8 mm,  
working length 6 cm

## Raspatories

curved



58210 CGA



58210 AGA **Raspatory**, curved, width 9 mm, working length 15 cm



58210 CGA **Raspatory**, curved, spatula 12 x 12 mm, working length 15 cm



58210 GGA **Raspatory**, curved, arc-shaped spatula, width 9 mm, working length 15 cm



58210 FGA **Raspatory**, curved, spatula curved, width 12 mm, working length 15 cm



58210 LGA **Raspatory**, curved, for lifting and dissecting the orbita rim periosteum, distal end of spatula 90° curved upwards, upper part sharp, width 9 mm, working length 15 cm



58210 WGA **Raspatory**, curved, triangular-shaped spatula, width 4 mm, working length 15 cm



**NEW**

58210 MGA **Raspatory**, curved, curved upwards, upper part sharp, width 9 mm, working length 15 cm



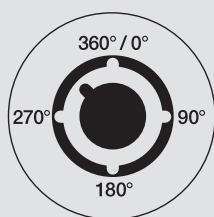
**NEW**

58210 UKA **Raspatory**, slightly curved, hollow grinding, width 8 mm, working length 15 cm



CLICK'line Instruments, consisting of:

- Handle
- Outer sheath
- Working insert



**4 locking positions possible:**  
0°/90°/180°/270°/360°

#### Nothing could be simpler!

The **CLICK'line** series continues the development of the **TAKE-APART**® instruments which have proven their value for years. The simplicity of handling and ease with which the **TAKE-APART**® instruments can be cleaned has been improved in the **CLICK'line** series, in particular in respect of assembly and disassembly.

When the rear handle is positioned horizontally, the handle can be separated from the outer tube and the working insert at the press of a button. Reassembly is

equally reliable and quick. The high frequency connection is mounted in a 45° angle on the upper side of the handle, thereby ergonomically guiding the high frequency cable away from the field of operation.

The **CLICK'line** series has also been expanded by a range of new handles, such as a new robust metal handle with insulation and the two CUSCHIERI Ball and Pencil handles.

#### This unique reusable three-piece design offers the surgeon the following benefits:

- Available in sizes 3 and 5 mm, with a length of 18 cm
- Choice of handle styles
- 4 locking positions of the sheath facilitate easy access in all clinical situations
- No hidden spaces that can trap blood or tissue debris
- Easy to dismantle at the push of a button, which significantly reduces cleaning time
- Fully autoclavable
- Cost-effective – reusable instruments reduce OR costs per case and simplify inventory management which eliminates the need to store large quantities of disposable instruments
- Environmentally correct, i.e. if damage occurs, only the component with the defect needs to be replaced – not the entire instrument
- User-friendly and ergonomic handling
- Cleaning port allows the instruments to be cleaned without disassembly

**Due to the modular CLICK'line system, the user can individually assemble the desired instrument at any time.**

#### Please note:

**TAKE-APART**® working inserts with ball ends can be used with **CLICK'line** handles and **CLICK'line** outer sheaths.

# User Information

For easy location of the correct catalog number for the required CLICK'linē instruments

## How to find the required instrument:

- (a) Select the required **instrument size** and the required **type of jaws**
- (b) Select the required **handle style**
  - **Metal handles: without** connector pin for unipolar coagulation, against a **blue background** in the table
  - **Handles, insulated: with** connector pin for unipolar coagulation, against a **red background** in the table
- (c) The catalog number for the fully assembled instrument can be found at the point where the horizontal line of the respective working length (see below) intersects with the vertical column of the required handle.

## Example:



50232 F




50232 F    **CLICK'linē Dissecting and Grasping Forceps**, straight sheath, single action jaws, size 3 mm, length 18 cm including:

33125 P    **Metal Handle**, insulated

50222 F    **Outer Sheath**, with working insert

## Dissecting and Grasping Forceps, Scissors

CLICK'linē, dismantling – non-rotating, can be locked in 4 positions

Straight sheath			
Length	Handle		
	33125 P	33131 P	33136 P
18 cm			
Single action jaws			
Outer Sheath with Working Insert	Complete Instrument		
50222 F	50232 F	50226 F	50230 F

**CLICK'linē Dissecting and Grasping Forceps**

— 12 —

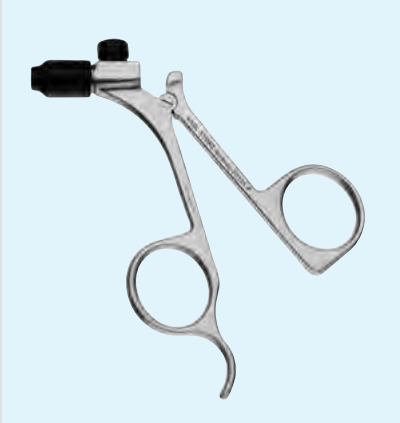
— — Jaw length in mm (approximate measurements)

## Please note:

For CLICK'linē instruments only the **individual component parts** are numbered. The catalog number for the **complete instrument** does **not** appear on the instrument. Instruments with **insulated handles with connector pin** for unipolar coagulation are shown against the **red background**. Instruments with **handles without connector pin** for unipolar coagulation are shown against the **blue background**. The color **green** indicates the **lengths**.

# Metal Handles

for Scissors, Dissecting and Grasping Forceps,  
CLICK'linē – without connector pin for unipolar coagulation



33131 P **CLICK'linē Metal Handle,**  
without ratchet,  
with 4 locking positions



33136 P **CLICK'linē Handle,**  
with thumb release,  
with 4 locking positions



33133 P **CLICK'linē Metal Handle,**  
with hemostat style  
ratchet, with 4 locking  
positions

## Metal Outer Sheath



50220 T

50220 T **CLICK'linē Metal Outer Sheath,** LUER-Lock irrigation  
connector for cleaning, size 5 mm, length 18 cm

# Metal Handles

for Scissors, Dissecting and Grasping Forceps, insulated,  
CLICK'line – with connector pin for unipolar coagulation



33125 P **CLICK'line Metal Handle**, non-rotating, without ratchet, with 4 locking positions

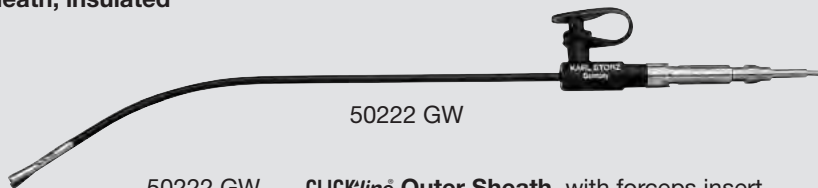
## Outer Sheath, insulated



50220 R

50220 R **CLICK'line Outer Sheath**, insulated, with LUER-Lock irrigation connector for cleaning, size 5 mm, length 18 cm

## CLICK'line Outer Sheath, insulated



50222 GW

50222 GW **CLICK'line Outer Sheath**, with forceps insert, insulated, curved, with LUER-Lock irrigation connector for cleaning, double action jaws, robust, opens horizontally, size 3 mm, length 18 cm



29100 **Plug**, for LUER-Lock connector for cleaning, **black, autoclavable**, package of 10

29100 A **Color-Coded Plug**, for LUER-Lock connector for cleaning, **red, green, black**, 10 each, package of 30, **for easier identification of jaws on the OR table**

**High Frequency Cords for unipolar coagulation** see chapter 15, UNITS

# Dissecting and Grasping Forceps, Scissors

CLICK<sup>line</sup>, dismantling – non-rotating, with 4 locking positions

Straight Sheath



50232 F

Size 3 mm

Length	Handle		
	33125 P	33131 P	33136 P
18 cm			

Single action jaws

Outer Sheath with Working Insert	Complete Instrument		
50222 F	50232 F	50226 F	50230 F



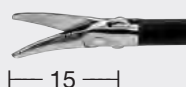
CLICK<sup>line</sup> Dissecting and Grasping Forceps

Size 5 mm

Length	Outer Sheath	Handle		
		33125 P	33131 P	33136 P
18 cm				

Double action jaws

Working Insert	Outer Sheath	Complete Instrument		
50235 G	50220 R	50245 G	50239 G	50243 G



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



# Dissecting and Grasping Forceps, Scissors

CLICK'linē, dismantling – non-rotating, with 4 locking positions

Curved sheath



Size 3 mm

Length	Handle		
	33125 P	33131 P	33136 P
18 cm			

Double action jaws

Outer Sheath with Working Insert	Complete Instrument		
50222 GG 	50232 GG	50226 GG	50230 GG
	<b>CLICK'linē Dissecting and Grasping Forceps, robust</b>		
50222 GW 	50232 GW	50226 GW	50230 GW
	<b>CLICK'linē Dissecting and Grasping Forceps, robust, horizontal opening</b>		
50221 GW 	50231 GW	50225 GW	50229 GW
	<b>CLICK'linē Scissors, curved, horizontal opening</b>		

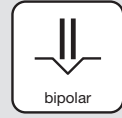
Size 5 mm

Outer Sheath with Working Insert	Complete Instrument		
50236 GW 	50246 GW	50240 GW	50244 GW
	<b>CLICK'linē Dissecting and Grasping Forceps, robust, horizontal opening</b>		
50235 GW 	50245 GW	50239 GW	50243 GW
	<b>CLICK'linē Scissors, serrated, curved, horizontal opening</b>		

10-11

# Handles

for Bipolar Forceps,  
TAKE-APART® – with connector pin for bipolar coagulation



**TAKE-APART® Standard Bipolar Instruments, consisting of:**

- Handle
- Outer Sheath
- Working Insert

For **bipolar instruments** the handle, outer sheath and working insert can be exchanged. The following alternatives are available:

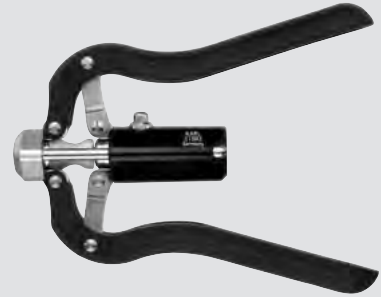
## Handles for Instruments, size 5 mm



26196 HR **TAKE-APART® Bipolar Spring Handle**



26196 HM **TAKE-APART® Bipolar Ring Handle**



26196 HA **TAKE-APART® Axial Bipolar Handle**

## Outer Sheath for Instruments, size 5 mm



50203 BS

50203 BS **TAKE-APART® Outer Sheath, with irrigation connector, length 15 cm**

**High Frequency Cords for bipolar coagulation** see chapter 15, UNITS


# User Information

For easy location of the correct catalog number for the required TAKE-APART® instrument

### How to find the required instrument:

- (a) Select the required **jaw**
- (b) Select the required **handle style**
- (c) The product number of the completely assembled instrument is listed at the intersection of the selected parameters (see table below)

### Example:



50203 BR

50203 BR **TAKE-APART® Bipolar Forceps**, with fine jaws, width 1.5 mm, size 5 mm, length 15 cm including:





- 26196 HR **Bipolar Spring Handle**
- 50203 BS **Outer Sheath**, with irrigation connector
- 50203 BE **Forceps Insert**

## Bipolar Forceps

TAKE-APART® – with connector pin for bipolar coagulation

Size 5 mm



Length	Handle		
	26196 HR	26196 HM	26196 HA
15 cm			
	(b)		
	↓		
Working Insert	Complete Instrument		
50203 BE	50203 BR (c)	50203 BH	50203 BA
	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, width 1.5 mm		
	(a)		

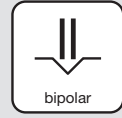
### Please note:

Among TAKE-APART® instruments only the **single component parts** are numbered. The number for the **complete** instrument is not etched on it. Please use the number shown on the following pages in the white background.

# Bipolar Forceps

TAKE-APART® – with connector pin for bipolar coagulation

Size 5 mm

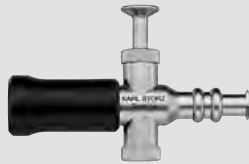


Length	Handle		
	26196 HR	26196 HM	26196 HA
15 cm			

Working Insert	Complete Instrument		
50203 BE	50203 BR	50203 BH	50203 BA
	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, width 1.5 mm		
50203 BF	50203 CR	50203 CH	50203 CA
	<b>TAKE-APART® Micro Bipolar Forceps</b>		
50203 RA	50203 AR	50203 AH	50203 AA
	<b>TAKE-APART® Micro Bipolar Forceps</b> , with fine jaws, width 1 mm, straight		
50203 RB	50203 GR	50203 GH	50203 GA
	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, width 1 mm, distally angled 30°		
50203 RD	50203 KR	50203 KH	50203 KA
	<b>TAKE-APART® Bipolar Forceps</b> , width 1.5 mm, jaws distally angled 30°		

# Coagulation Suction Tubes

Size 5 mm



30804

30804

**Handle with Trumpet Valve**, for suction or irrigation, **autoclavable**, for use with 5 mm coagulating suction tubes and 5 mm suction and irrigation tubes



50203 D



50203 D

**Coagulation Suction Tube**, L-shaped, hook curved downwards, straight sheath, diameter 5 mm, working length 15 cm



50203 DL

**Coagulation Suction Tube**, L-shaped, hook curved to left, curved sheath, diameter 5 mm, working length 15 cm



50203 DR

**Same**, hook curved to right



50203 DU

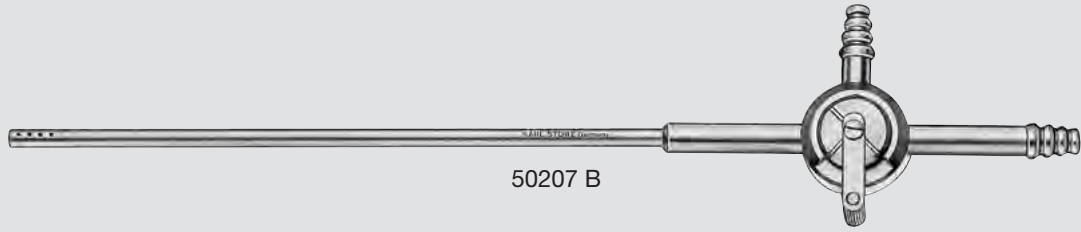
**Coagulation Suction Tube**, spatula-shaped, curved sheath, diameter 5 mm, working length 15 cm

2-041

**High Frequency Cords for unipolar coagulation** see chapter 15, UNITS

# Suction and Irrigation Tubes, Bipolar Coagulation Electrode

Size 5 mm

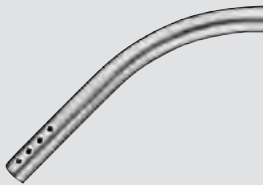


50207 B



50207 B

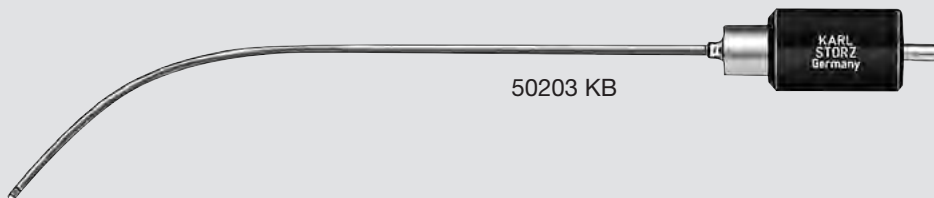
**Suction and Irrigation Tube**, straight sheath, with lateral holes, with two-way stopcock for single-hand control, diameter 5 mm, working length 15 cm



50207 BG

**Same**, curved sheath

Size 3 mm



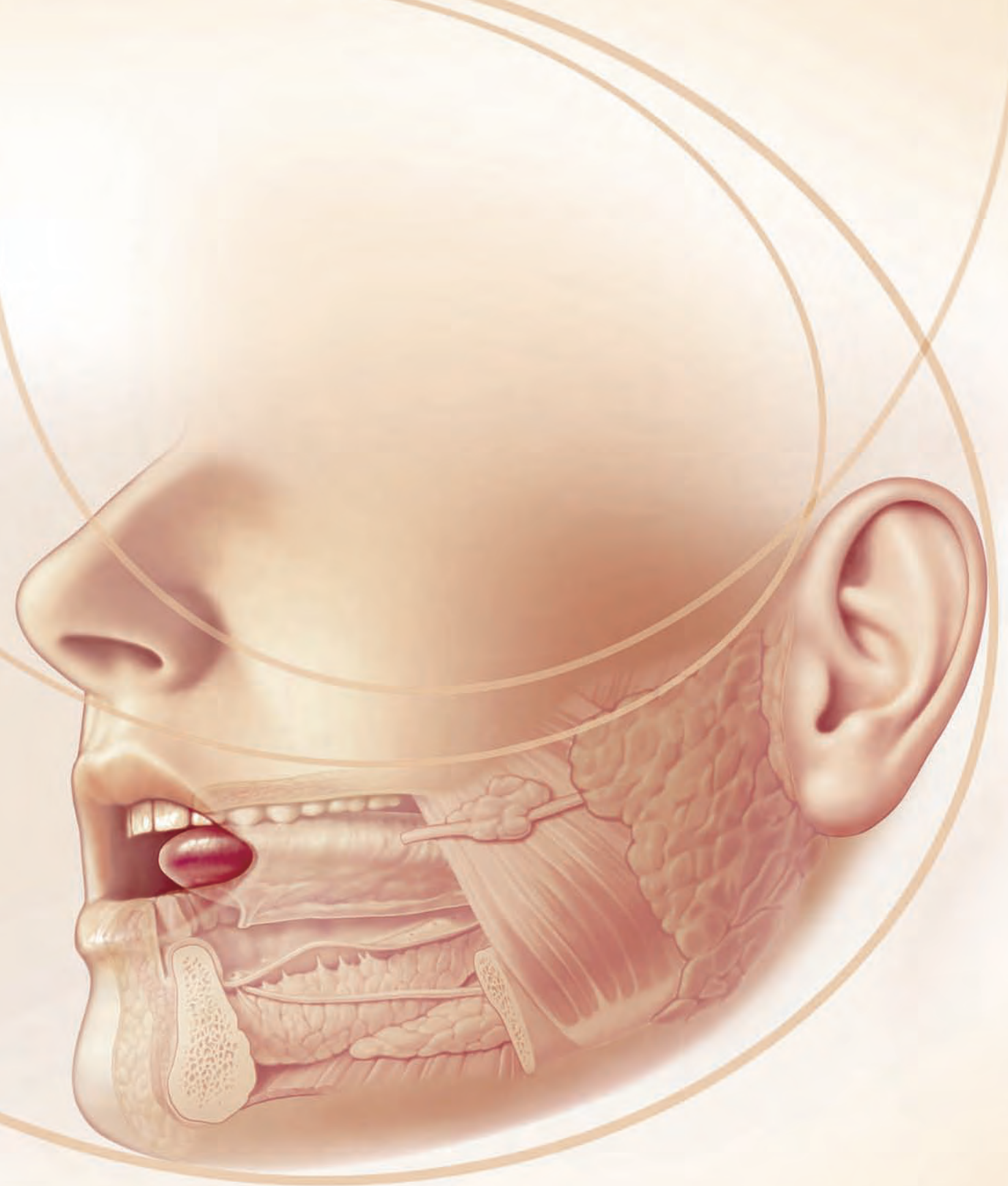
50203 KB

50203 KB

**Bipolar Coagulating Electrode**, curved, diameter 3 mm, working length 15 cm



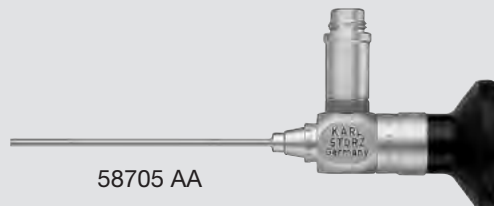
High Frequency Cords for bipolar coagulation see chapter 15, UNITS



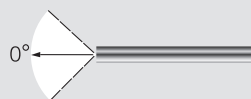
**TELESCOPES AND INSTRUMENTS FOR  
ARTHROSCOPY OF  
TEMPOROMANDIBULAR JOINT**

# Telescopes and Sheaths

for arthroscopy of temporomandibular joint



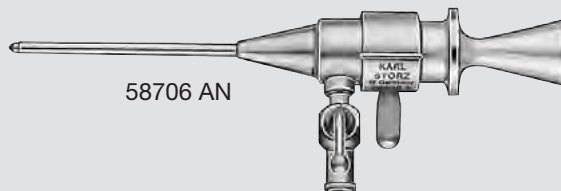
58705 AA



58705 AA

**HOPKINS® Straight Forward Telescope 0°**, diameter 1.9 mm, length 6.5 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with HOPKINS® Telescope 58705 AA



58706 AN

58706 AN

**High Flow Arthroscope Sheath**, outer diameter 2.5 mm, working length 4 cm, for use with HOPKINS® Telescope 58705 AA, color code: green

58706 BS

**Obturator**, sharp, for use with High-Flow Arthroscope Sheaths 58706 AN/BN

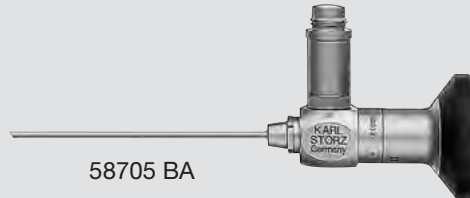
58706 BT

**Obturator**, blunt, for use with High-Flow Arthroscope Sheaths 58706 AN/BN



# Telescopes and Sheaths

for arthroscopy of temporomandibular joint



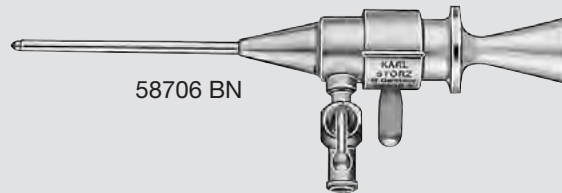
58705 BA



58705 BA

**HOPKINS® Forward-Oblique Telescope 30°**, diameter 1.9 mm, length 6.5 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

For use with HOPKINS® Telescope 58705 BA:



58706 BN

58706 BN

**High Flow Arthroscope Sheath**, outer diameter 2.5 mm, working length 4 cm, for use with HOPKINS® Telescope 58705 BA, color code: red

58706 BS

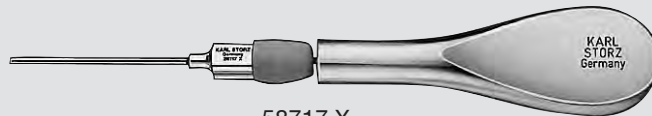
**Obturator**, sharp, for use with High-Flow Arthroscope Sheaths 58706 AN/BN

58706 BT

**Obturator**, blunt, for use with High-Flow Arthroscope Sheaths 58706 AN/BN

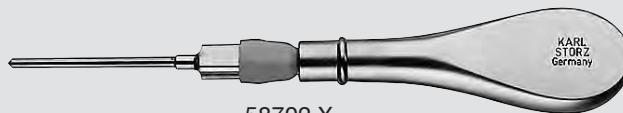
# Trocars

for arthroscopy of temporomandibular joint



58717 X

- 58717 X **Trocar**, outer diameter 1.8 mm, working length 4 cm, for use with Obturators 58717 XB/XS and Biopsy Forceps 58717 PZ
- 58717 XB **Obturator**, blunt, for use with Trocar 58717 X
- 58717 XS **Obturator**, sharp, for use with Trocar 58717 X



58702 X

- 58702 X **Trocar**, outer diameter 2.5 mm, working length 3.5 cm, for use with Obturators 58702 XS/XT and instruments 58702 DH/EK/EO/M/N/S/U
- 58702 XS **Obturator**, sharp, for use with Trocar 58702 X
- 58702 XT **Obturator**, blunt, for use with Trocar 58702 X

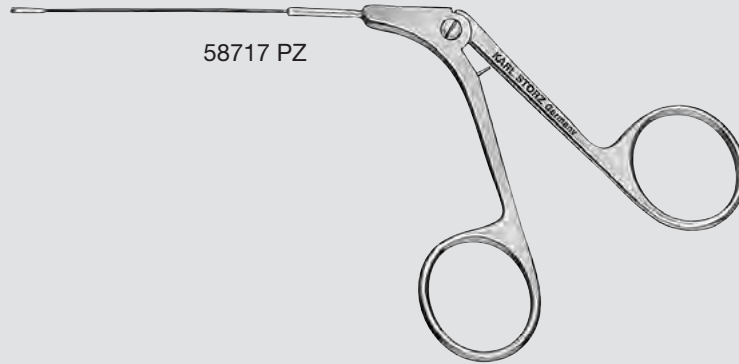


58702 W

- 58702 W **Changing Rod**, double-ended pointed/blunt, diameter 2 mm, length 15 cm, for High Flow Arthroscope Sheath 58703 BH/CH and Trocar 58702 X

# Instruments

for arthroscopy of temporomandibular joint



58717 PZ



58702 DH

**Forceps**, single action jaws, through-cutting, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X



58702 EO

**Scissors**, single action jaws, upbiting, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X



58702 U

**Grasping Forceps**, single action jaws, diameter 2.1 mm, working length 10 cm, for use with Trocar 58702 X



58717 PZ

**Biopsy Forceps**, single action jaws, diameter 1.3 mm, working length 6 cm, for use with Trocar 58717 X



58702 S



58702 N

**Sickle Knife**, straight, diameter 1.5 mm, blade 6 mm, working length 7.5 cm, for use with Trocar 58702 X



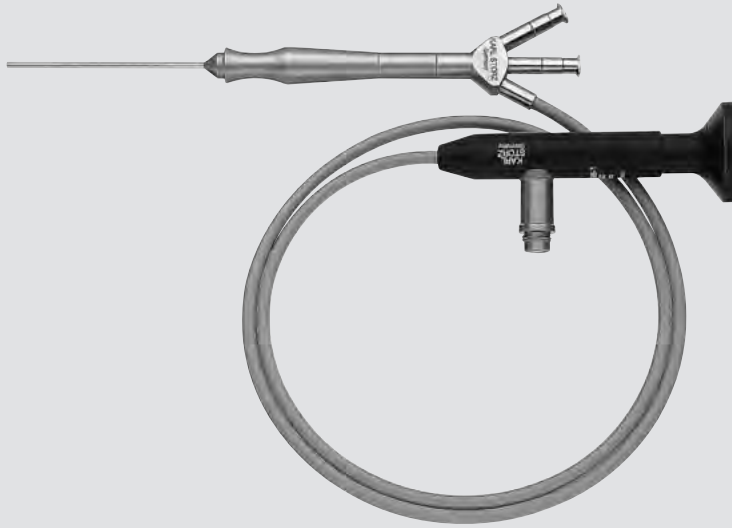
58702 M

**Sickle Knife**, straight, diameter 1.5 mm, blade 7.5 mm, working length 7.5 cm, for use with Trocar 58702 X



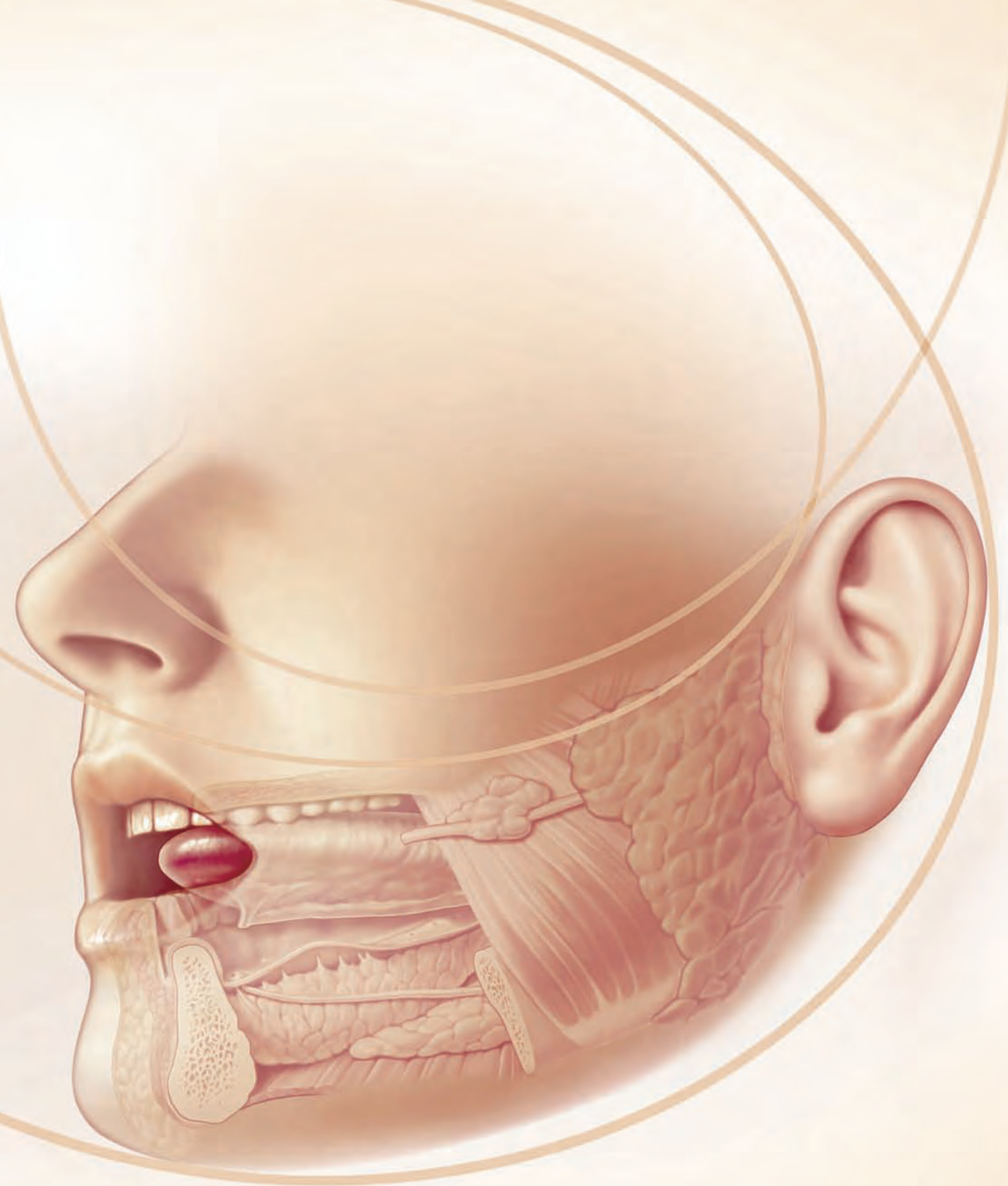
58702 S

**Palpation Hook**, graduated, diameter 1.5 mm, length of hook 1 mm, working length 7.5 cm, for use with Trocar 58702 X



11578 A

- 11578 A     **Miniature Straight Forward Telescope 0°**, diameter 2.2 mm, working length 65 mm, **autoclavable**, working channel 1.4 mm, irrigation channel 0.25 mm, with remote eyepiece and fiber optic light transmission incorporated, for use with Trocar 11578 KA
- 11578 KA     **Trocar**, outer diameter 2.6 mm, working length 6.5 cm, graduated, for use with Telescope 11578 A and Obturators 11578 BS/BT
- 11578 BS     **Obturator**, sharp, for use with Trocar 11578 KA
- 11578 BT     **Obturator**, blunt, for use with Trocar 11578 KA

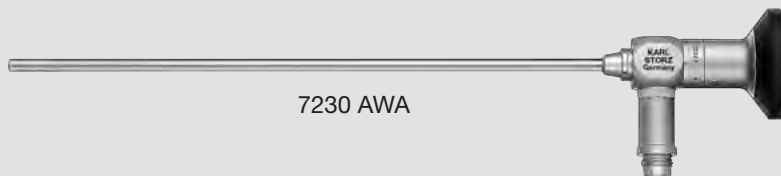


**TELESCOPES AND INSTRUMENTS  
FOR MAXILLARY ENDOSCOPY**

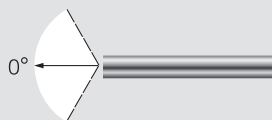
# HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of the Maxillary Sinuses

Diameter 4 mm, length 18 cm

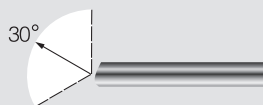


7230 AWA



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



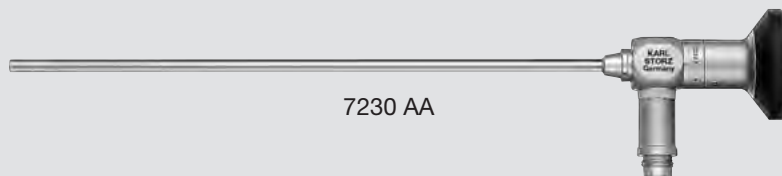
7230 CWA

**HOPKINS® II Wide Angle Lateral Telescope 70°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

# HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of the Maxillary Sinuses

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



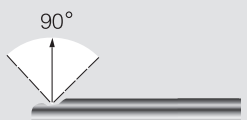
7230 FA

**HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



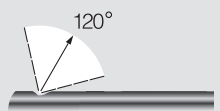
7230 CA

**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



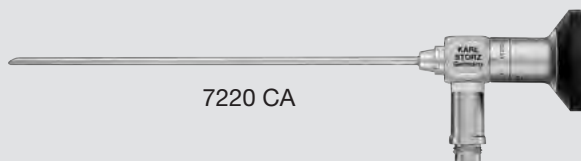
7230 EA

**HOPKINS® II Retrograde Telescope 120°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: white

# HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of the Maxillary Sinuses

Diameter 3 mm, length 14 cm, extra large view



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 CA

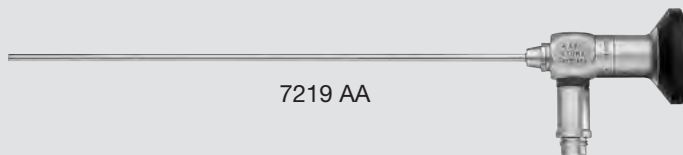
**HOPKINS® II Lateral Telescope 70°**, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow



# HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of the Maxillary Sinuses

Diameter 2.7 mm, length 18 cm



7219 AA

**HOPKINS® II Straight Forward Telescope 0°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7219 BA

**HOPKINS® II Forward-Oblique Telescope 30°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



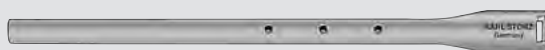
7219 FA

**HOPKINS® II Forward-Oblique Telescope 45°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



7219 CA

**HOPKINS® II Lateral Telescope 70°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow



723750 B

723750 B

**Protection Tube**, working length 19.7 cm, for use with HOPKINS® telescopes with a length of 18 cm

# Trocars for Sinoscopy



723005 A



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

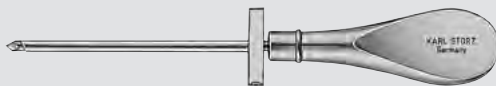


723005 B



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

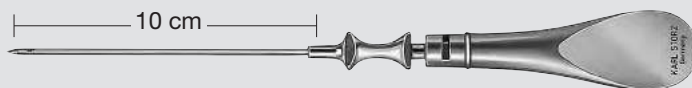


723103 B

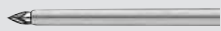


723103 B

**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



582620



582620

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

# Instruments for Sinoscopy

Handles



723770

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

723771 STAMMBERGER **Telescope Handle**, round, length 14.5 cm, for use with HOPKINS® telescopes 30° – 120° with length 18 cm



723772

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

723773 STAMMBERGER **Telescope Handle**, round, length 6.5 cm, for use with HOPKINS® telescopes with diameter 2.7/3 mm and length 11 cm

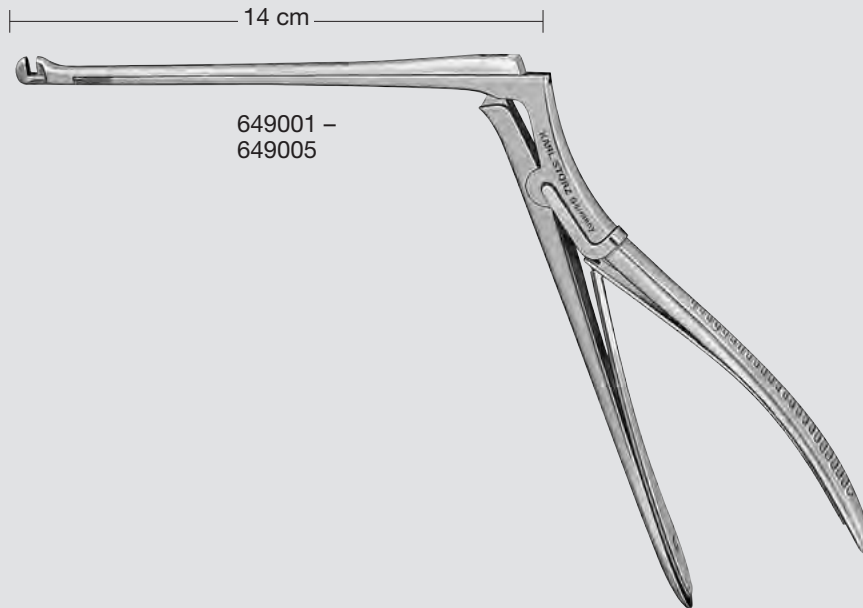


723774

723774 STAMMBERGER **Telescope Handle**, round, length 11 cm, for use with HOPKINS® telescopes with diameter 1.9/2.7 mm and length 18 cm

# Instruments for Sinoscopy

## Punches



649001 –  
649005



649001

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



649002

**Same,** 90° downbiting

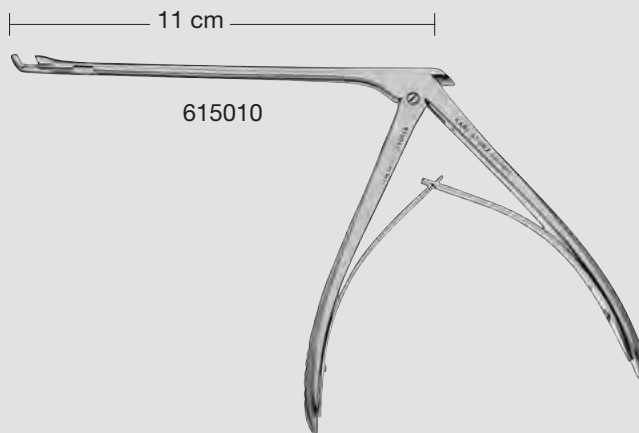


649005

**Same,** upbiting forward

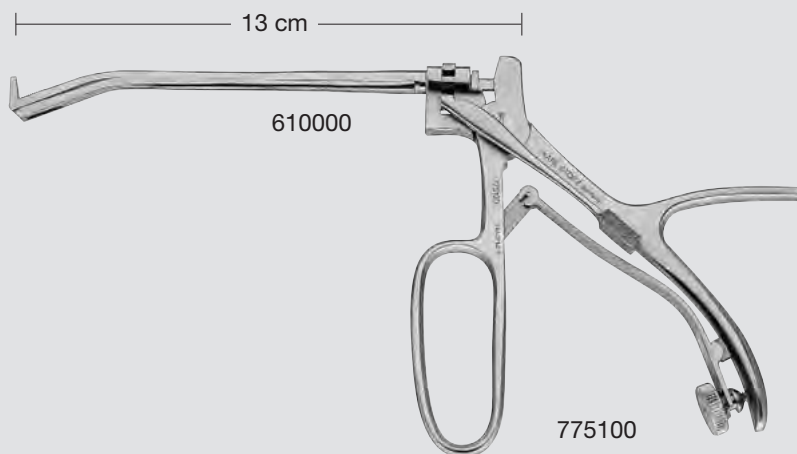
# Instruments for Sinoscopy

## Punches



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



610000

**OSTRUM Antrum Punch**, upside backward cutting, working length 13 cm

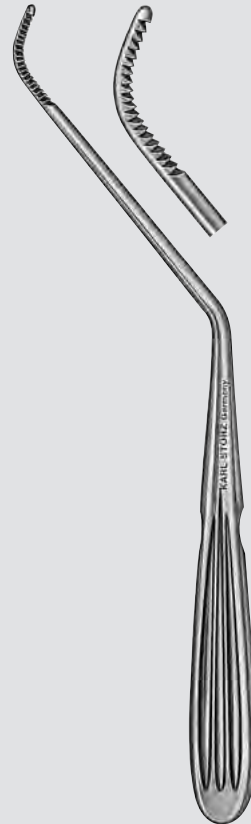
775100

**Universal Handle**, for 610000 and 775600 – 775950



607700

607700 **WIENER Antrum Rasp,**  
with trochar tip, length 19.5 cm

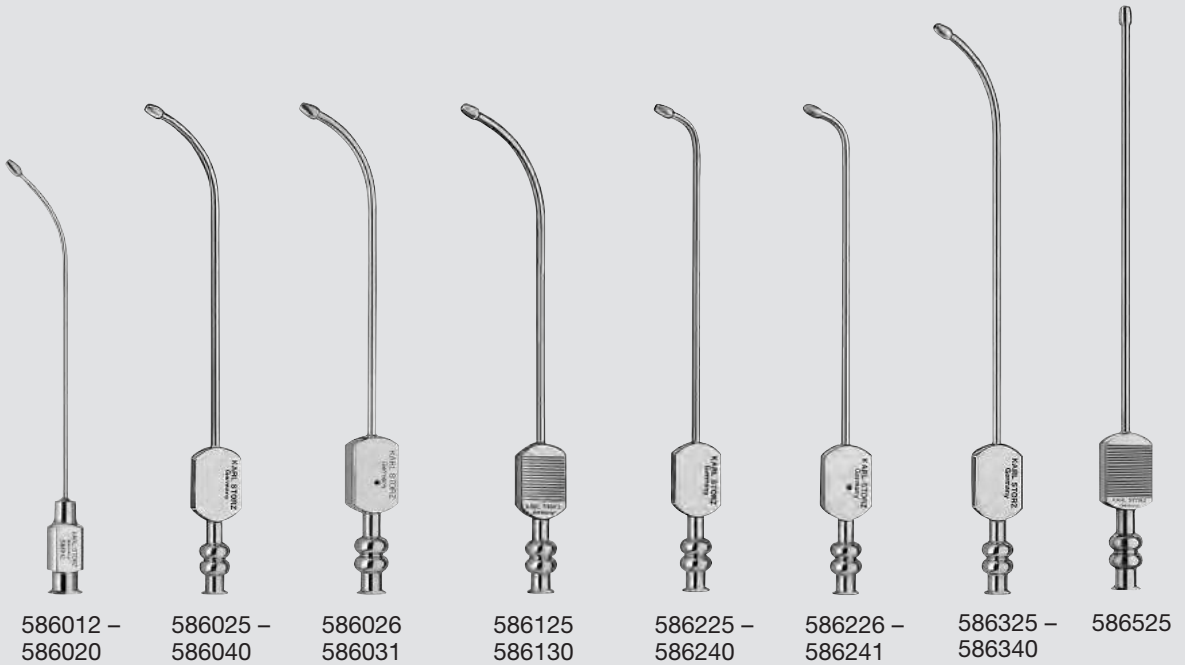


608000

608000 **WATSON-WILLIAMS Antrum Rasp,**  
blunt, length 23 cm

# Instruments for Sinuscopy

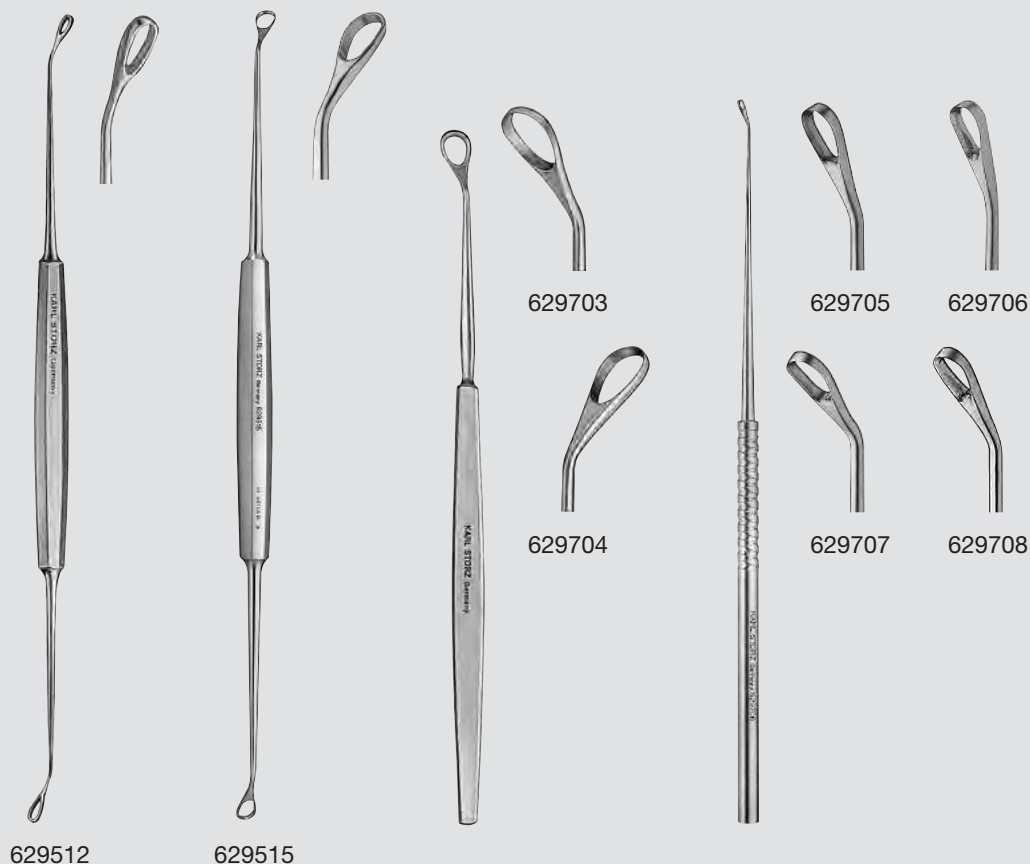
## Antrum Cannulas



586012 – 586020	<b>Antrum Cannula</b> , LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm	586225	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm
586015	<b>Same</b> , with olive diameter 2.7 mm, outer diameter 1.5 mm	586230	<b>Same</b> , outer diameter 3 mm
586020	<b>Same</b> , outer diameter 2 mm	586240	<b>Same</b> , outer diameter 4 mm
586025	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm	586226	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, with cut-off hole, short curved, outer diameter 2.5 mm, length 12.5 cm
586030	<b>Same</b> , outer diameter 3 mm	586231	<b>Same</b> , outer diameter 3 mm
586040	<b>Same</b> , outer diameter 4 mm	586241	<b>Same</b> , outer diameter 4 mm
586026	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, with cut-off hole, long curved, outer diameter 2.5 mm, length 12.5 cm	586325	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm
586031	<b>Same</b> , outer diameter 3 mm	586330	<b>Same</b> , outer diameter 3 mm
586125	<b>v. EICKEN Antrum Cannula</b> , LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm	586340	<b>Same</b> , outer diameter 4 mm
586130	<b>Same</b> , outer diameter 3 mm	586525	<b>Antrum Cannula</b> , LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm

# Instruments for Sinoscopy

## Curettes

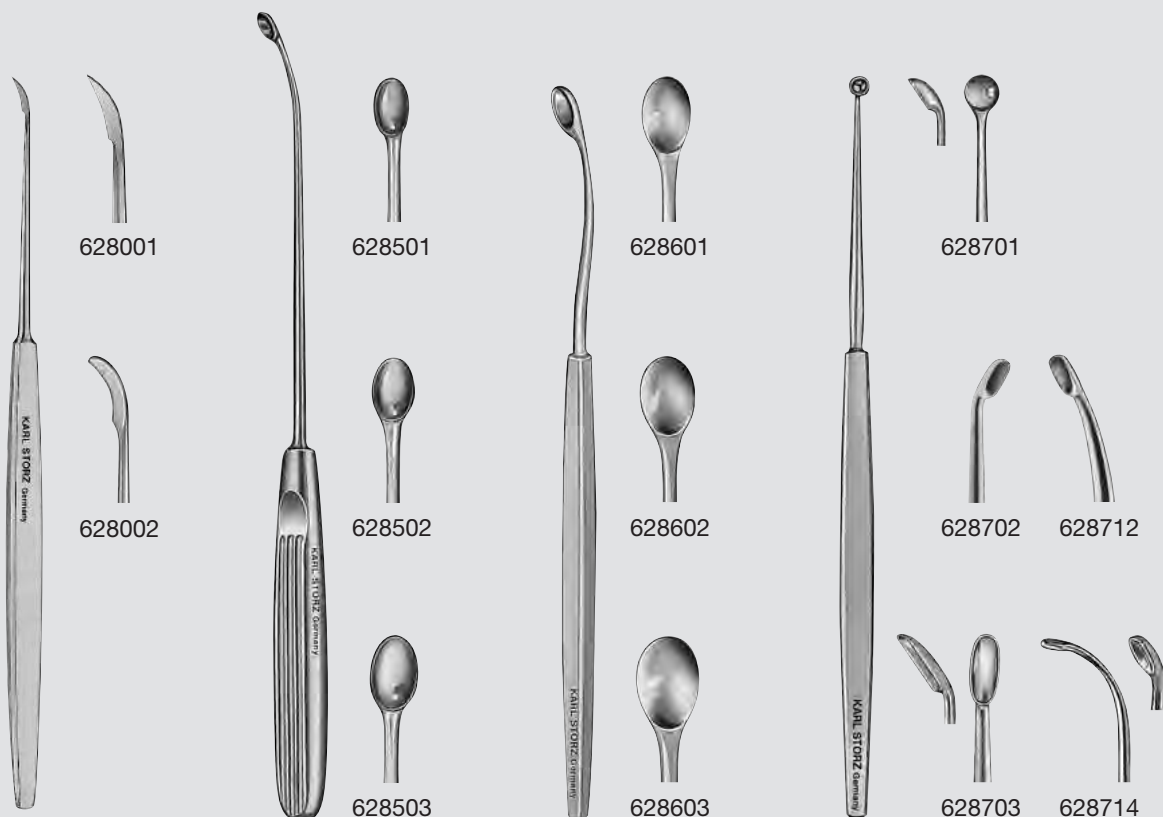


- 629512 HALLE Antrum Curette, oval, length 24.5 cm
- 629515 Antrum Curette, oval, width 6.2 mm, 35° and 65°, length 24.5 cm
- 629703 Antrum Curette, forward cutting, small, length 19 cm
- 629704 Same, backward cutting
- 629705 Curette, forward cutting, angled 20°, large, working length 22 cm
- 629706 Same, small, working length 20 cm
- 629707 Curette, forward cutting, angled 45°, large, working length 22 cm
- 629708 Same, small, working length 20 cm



# Instruments for Sinoscopy

Elevators, Knives, Curettes



628801



628802



628801  
628802

628001

**Sickle Knife**, pointed, length 19 cm

628002

**Same**, round, double-cutting

628501

**HALLÉ 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 size

628703

**Same**, oblong, large size

628712

**KUHNS-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

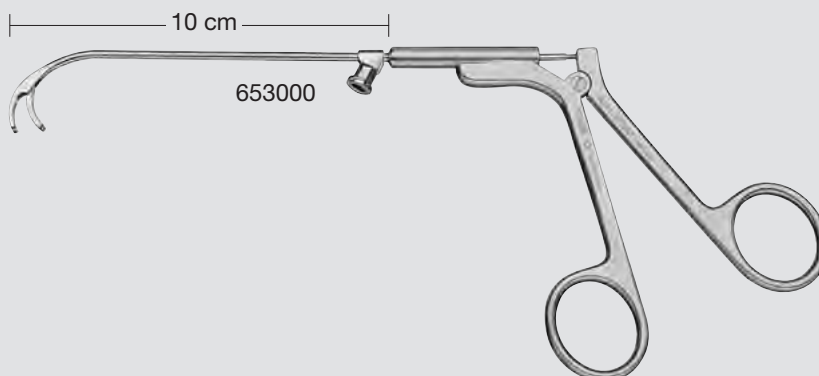
# Instruments for Sinoscopy

HEUWIESER Antrum Grasping Forceps

## 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

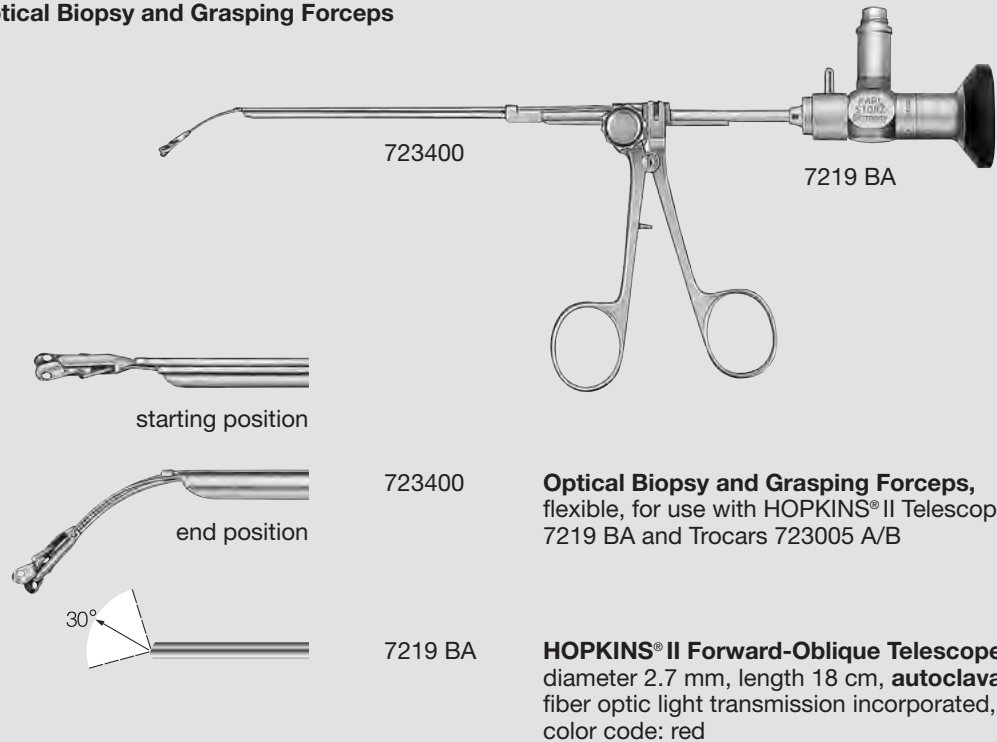


- 653000 HEUWIESER Antrum Grasping Forceps, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120° backward opening, with cleaning connector, working length 10 cm
- 653001 **Same**, jaws curved upwards
- 653002 **Same**, jaws curved to right
- 653003 **Same**, jaws curved to left
- 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°

# Instruments for Sinoscopy

Optical Biopsy and Grasping Forceps,  
HEUWIESER Antrum Grasping Forceps

## Optical Biopsy and Grasping Forceps



starting position

end position



723400

7219 BA

723400

**Optical Biopsy and Grasping Forceps,**  
flexible, for use with HOPKINS® II Telescopes  
7219 BA and Trocars 723005 A/B

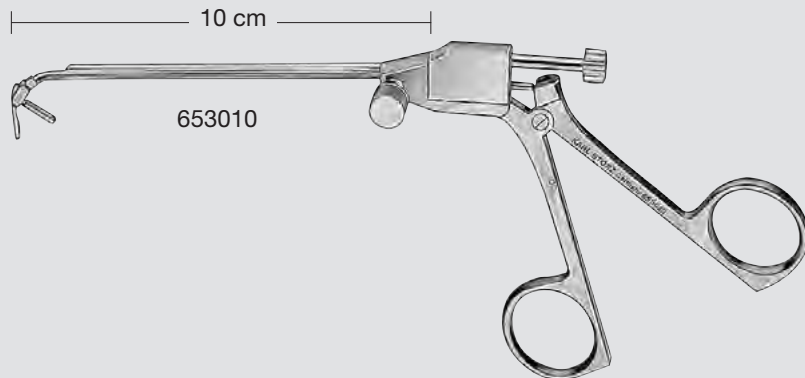
7219 BA

**HOPKINS® II Forward-Oblique Telescope 30°,**  
diameter 2.7 mm, length 18 cm, **autoclavable,**  
fiber optic light transmission incorporated,  
color code: red

## HEUWIESER Antrum Grasping Forceps, double action jaws

### Special Features:

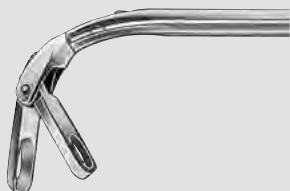
- Enlarged action radius of jaws compared to that of HEUWIESER standard forceps
- Retrograde position of both jaws adjustable: upper jaw up to 120° angle, inferior jaw up to 180°, opens backwards



653010

653010

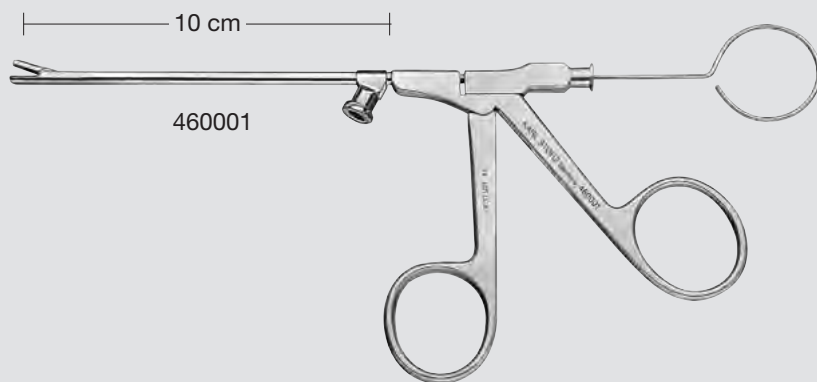
**HEUWIESER Antrum Grasping Forceps,**  
double action jaws adjustable to retrograde  
position, working length 10 cm



# Instruments for Sinoscopy

STAMMBERGER Biopsy and Grasping Forceps,  
with central suction

Working length 10 cm



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

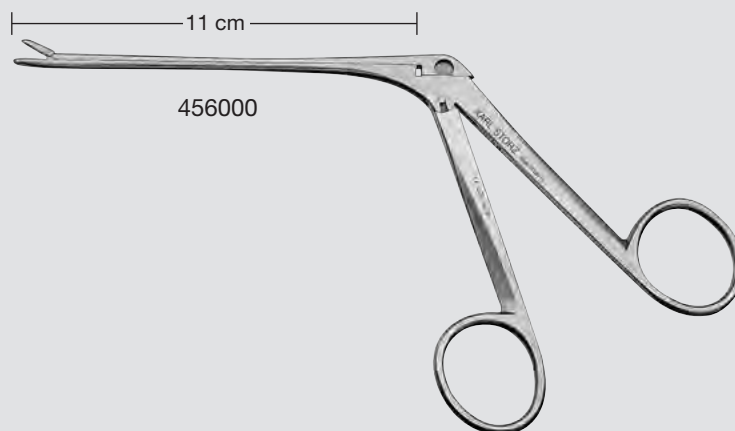
STAMMBERGER **Suction Punch**, for biopsy and grasping, curved upwards, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm









# Instruments for Sinoscopy

## Nasal Forceps

Working lengths 11 and 15 cm

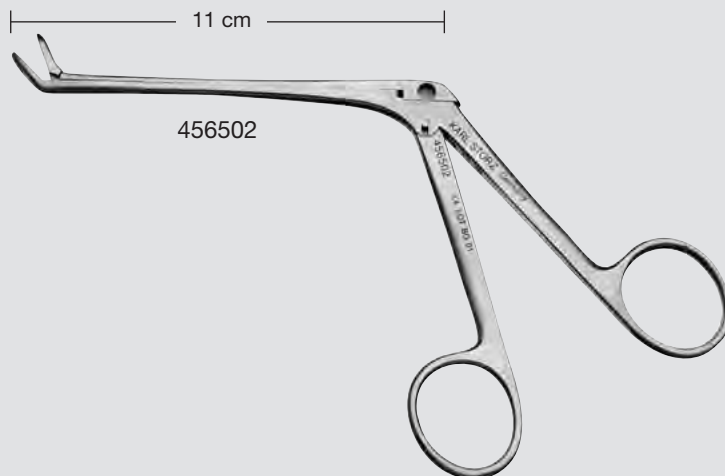


	456000	BLAKESLEY <b>Nasal Forceps</b> , straight, size 0, working length 11 cm
	456001	<b>Same</b> , size 1
	456001 L	<b>Same</b> , size 1, working length 15 cm
	456002	<b>Same</b> , size 2
	456003	<b>Same</b> , size 3
	456004	<b>Same</b> , size 4

# Instruments for Sinoscopy

## 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

# Instruments for Sinoscopy

## Spatulas



635005



635012 –  
635025



635117

635005 **BEHRBOHM Orbital Retractor**, width of spatula 8.4 x 16 mm, length 20 cm

635012 **Retractor**, malleable, width 12 mm, length 20 cm

635017 **Same**, width 17 mm

635025 **Same**, width 25 mm

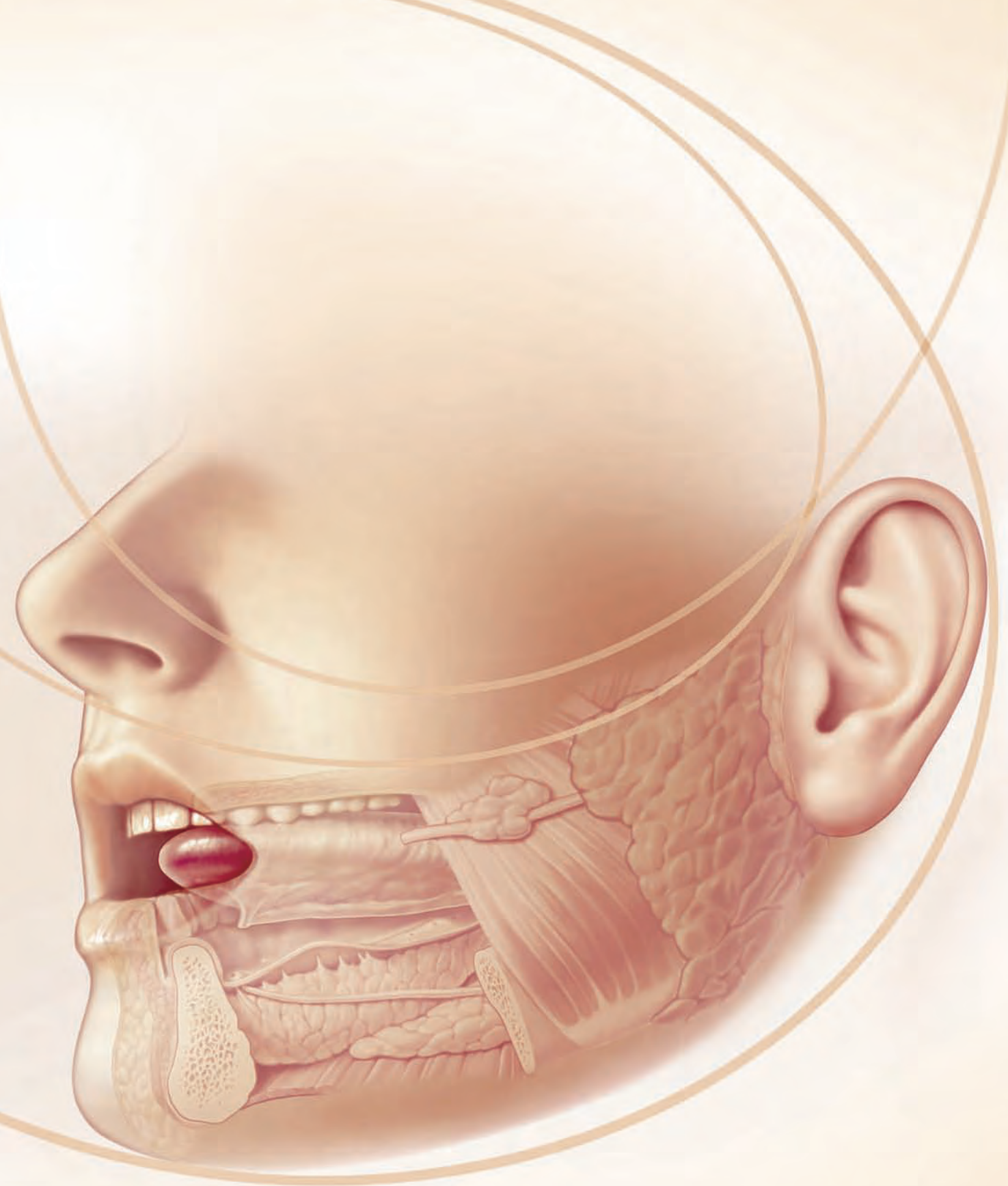
**NEW** 635117 **Orbital Spatula**, with double graduation, width 17 mm, length 20 cm

**NEW** 635112 **Same**, width 12 mm

**NEW** 635122 **Same**, width 22 mm







**TELESCOPES AND INSTRUMENTS  
FOR DENTAL SURGERY**



58960 ZR



58950 GR



58950 MS

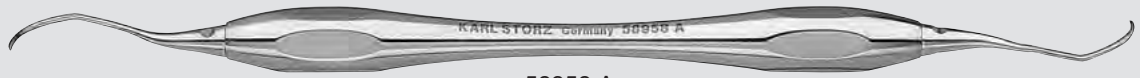


58961 SS



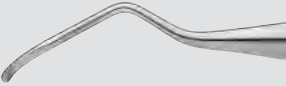








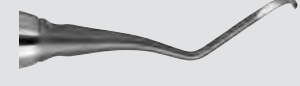
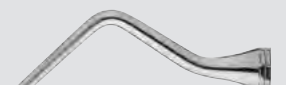




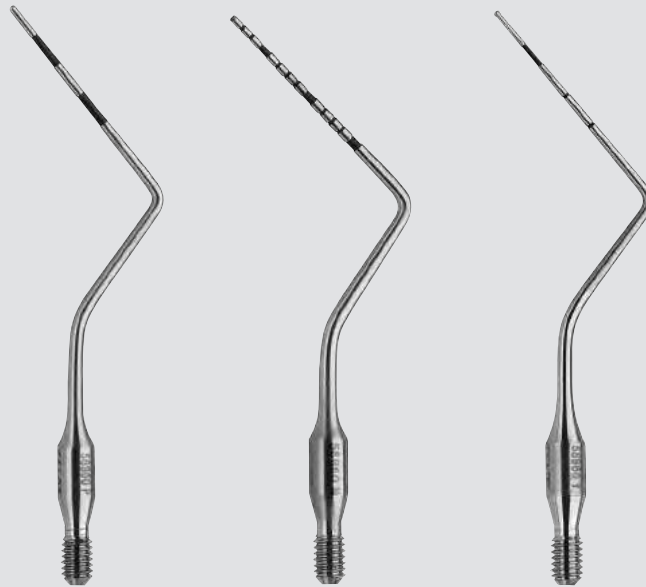
58960 K

- 58960 ZR **Dental Probe**, fine, flexible, length 15.5 cm
- 58950 GR **Handle**, single-ended, stainless steel, with thread M 2.5, for exchangeable probe tips and mouth mirrors
- 58950 MS **Mouth Mirror**, without magnification, diameter 22 mm, for use with Handle 58950 GR
- 58961 SS **Palpation Probe**, with scale, length 17 cm
- 58960 K **Dental Calculus Hook**, curved upwards, double-sided grinding, length 15 cm



58958 A

	58958 A	<b>LANGER Universal Curette</b> , double-ended, Fig. 1/2 <b>Same</b> , Fig. 3/4 <b>Same</b> , Fig. 5/6	
	58958 B		
	58958 C		
	58958 D	<b>Universal Curette</b> , double-ended, Fig. M 23	
	58958 E	<b>Sickle Scaler</b> , double-ended, hygienist Fig. 6/7	
	58961 C	<b>Sickle Scaler</b> , double-ended, length 17 cm	
	58958 F	<b>LANGER Universal Curette</b> , double-ended, Fig. 1/2, titanium inserts <b>Same</b> , Fig. 3/4 <b>Same</b> , Fig. 5/6	
	58958 G		
	58958 H		
	58958 I	<b>COLUMBIA Universal Curette</b> , double-ended, Fig. 4R/4L, titanium inserts	
	58964	<b>LUCAS Bone Curette</b> , double- ended, length 17.5 cm <b>LUCAS Curette</b> , Fig. 2, double-ended, width 3 mm	
	58964 A		



58960 P

58960 N

58960 Y

58960 P **Periodontal Probe**, Fig. CPG 12, exchangeable, M2.5, markings at 3, 6, 9, 12 mm, for use with Handle 58950 GR

58960 N **Periodontal Probe**, NORTH CAROLINA CNC, exchangeable, 1-15 in mm steps, for use with Handle 58950 GR

58960 Y **Periodontal Probe**, Fig. PCPG 11.5 (WHO), exchangeable, M2.5, markings at 3.5 – 5, 5 – 8, 5 – 11.5 mm, for use with Handle 58950 GR



58961 F



58961 E

**White Excavator**, double-ended,  
Fig. 19, length 17.5 cm



58961 F

**GILLET Excavator**, double-ended,  
length 17 cm



58961 MA

**Filling Instrument**, Fig. 35,  
double-ended, length 17 cm



58961 MC

**Spatula**, for composite fillings,  
double-ended, blunt/blunt,  
length 17 cm



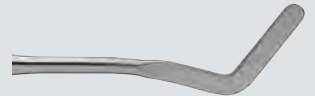
58955

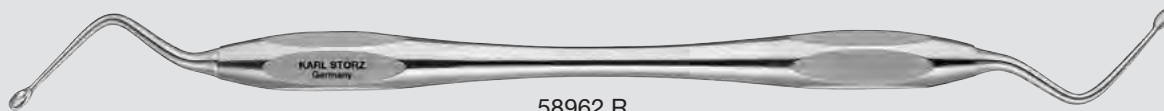
**Cement Spatula**, double-ended,  
sharp/blunt, length 17.5 cm



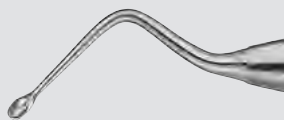
58958 R

**HEIDEMANN Spatula**, double-  
ended, length 18.5 cm

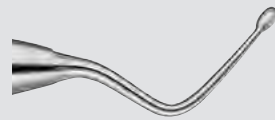




58962 R



58962 R HEMINGWAY **Dental Curette**,  
double-ended, size 1,  
length 18.5 cm



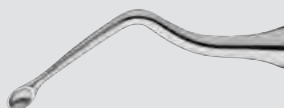
58963 R **Same**, size 2



58970 LUNIATSCHEK **Gauze Packer**,  
double-ended, straight/curved,  
size 1, length 18 cm



58971 **Same**, size 2



58965 HEMINGWAY **Bone Curette**,  
double-ended, sharp,  
length 17 cm



58961 AS **Applicator for Bone Graft  
Material**, double-ended, ball-  
shaped, length 17 cm

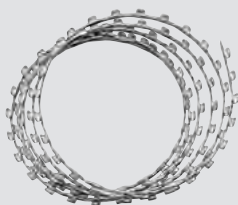


58973 BORMANN **Positioning  
Instrument**, double-ended,  
3-toothed, straight/curved,  
length 20 cm



745718

**NEW** 745718 LONDON-COLLEGE **Tooth Tweezers**,  
serrated, length 15 cm



58998

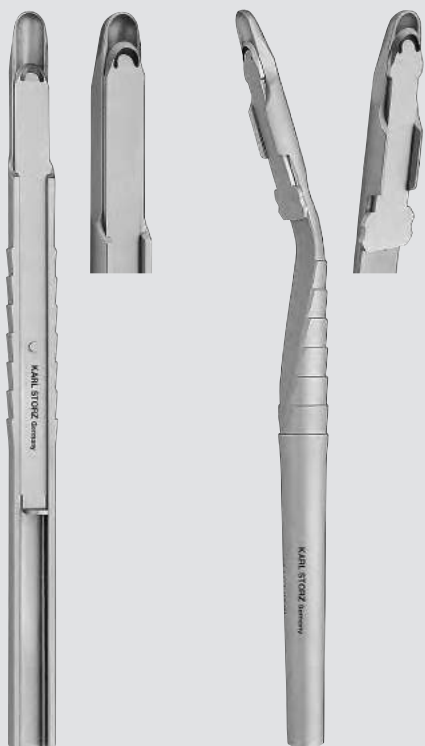
**NEW** 58998 ERICH **Splints**, in 1 meter rolls



58900 G



58900 KM



58974

58974 G

58900 G **GELLRICH Bone Preparation Block**, for preparing cartilage and bone in dental surgery, width 7 cm, length 12.5 cm

58900 KM **Bone Mill**, for the comminution of autologous bone material including:

**Cleaning Instruments**

**Metal Tray**, with compartments and lid

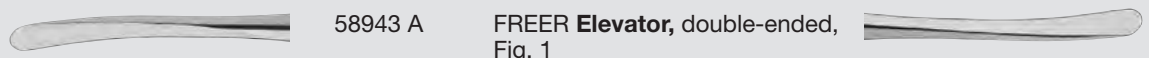
**KIRSCH Curette**, sinus 7, size 8 x 10 mm

58974 **Bone Scraper**, straight, diameter 10 mm, reusable

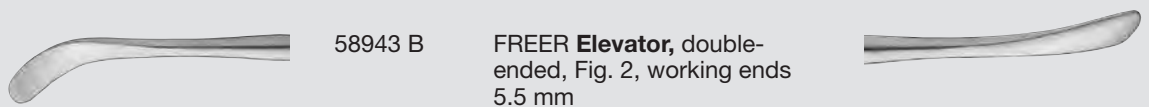
58974 G **Bone Scraper**, converse curve 20°, diameter 10 mm, reusable



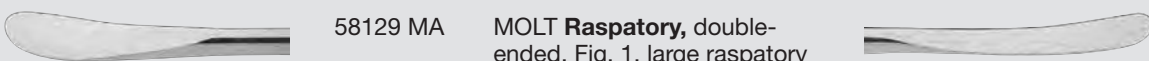
58943 A



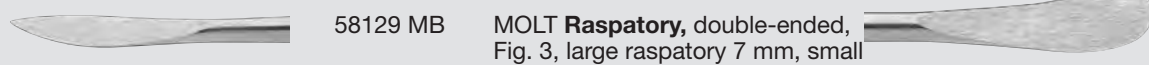
58943 A **FREER Elevator**, double-ended, Fig. 1



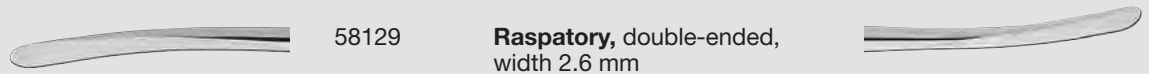
58943 B **FREER Elevator**, double-ended, Fig. 2, working ends 5.5 mm



58129 MA **MOLT Raspatory**, double-ended, Fig. 1, large raspatory 7.5 mm, small raspatory 4 mm



58129 MB **MOLT Raspatory**, double-ended, Fig. 3, large raspatory 7 mm, small raspatory 4.6 mm



58129 **Raspatory**, double-ended, width 2.6 mm



# Elevators, Dental Raspatories *NEW*



58961 LR



58961 LR

**Periosteal Elevator**, double-ended, rounded elevator 2.8 mm/lancet 2.4 mm



58961 LT

**BUSER Periosteal Elevator**, double-ended, rounded elevator 4.2 mm, curved/lancet 3.8 mm

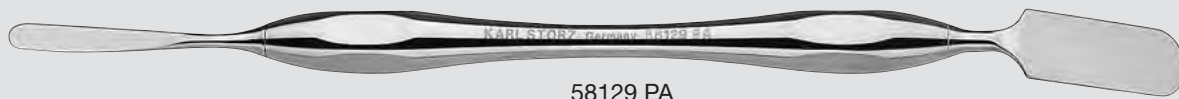


58961 LS

**Periosteal Elevator**, double-ended, rounded elevator 2.8 mm/lancet 3.4 mm



# Elevators, Dental Raspatories <sup>NEW</sup>



58129 PA



58129 PA

**PRICHARD Raspatory**, double-ended, PPR3, straight retractor



58129 PB

**PRICHARD Raspatory**, double-ended, PP3, retractor angled 30°, right



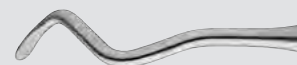
58129 PC

**Same**, left



58961 MB

**Sinus Lift Elevator**, double-ended, sharp/sharp, length 17 cm



58961 SB

**Sinus Lift Elevator**, double-ended, blunt/blunt, double curve left/right, length 19.5 cm



58961 SC

**Sinus Lift Elevator**, double-ended, blunt/blunt, S-shaped, short/long curve, length 19.5 cm



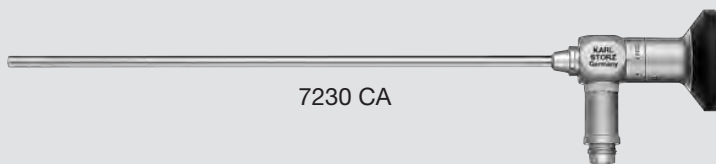
58961 SD

**Same**, bayonet-shaped



# HOPKINS® II Telescope, LED Battery Light Source for Endoscopes

Basic Set for Dental Surgery



7230 CA

7230 CA

**HOPKINS® II Lateral Telescope 70°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow



11301 D4

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 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

## Overview

		11301 DE	11301 DF	11301 D4
Energy source	rechargeable	●	●	–
	battery	–	–	●
Endoscope connection	click connection	●	–	–
	fast screw thread	–	●	●

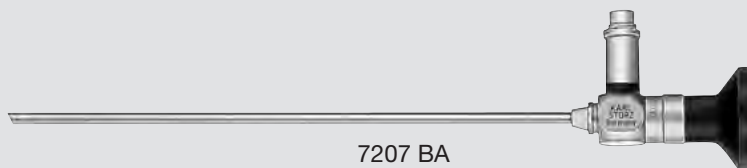
## For all rechargeable models

094129

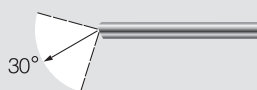
**Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz

094127

**Mains Cord**, for Battery Charger 094129, length 150 cm

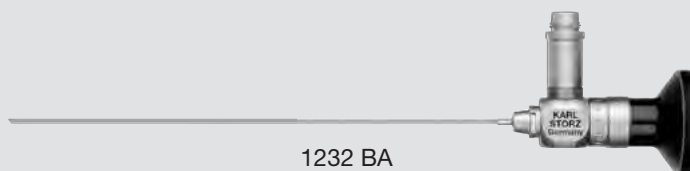


7207 BA

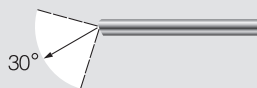


7207 BA

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

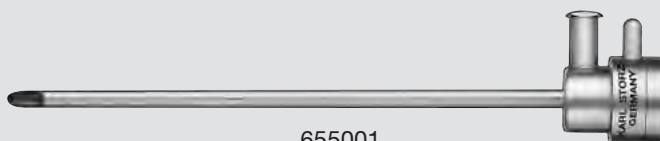


1232 BA



1232 BA

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



655001

655001 **ENGELKE Telescope Sheath**, with LUER-Lock irrigation connector, bill-shaped distal beak for retraction of tissue and pollution protection for the telescope, diameter 3.5 mm, working length 10.5 cm, for use with HOPKINS® Telescopes 7207 BA/CA

655002 **ENGELKE Telescope Sheath**, with LUER-Lock irrigation connector, bill-shaped distal beak for retraction of tissue and pollution protection for the telescope, diameter 2.5 mm, working length 9 cm, for use with HOPKINS® Telescopes 1232 BA/CA



655004

655004 **Telescope Sheath**, with LUER-Lock irrigation connector, bill-shaped distal end to brace telescope on bone, for retraction of tissue and pollution protection for the telescope, diameter 3.6 mm, working length 11.6 cm, for use with HOPKINS® Telescope 7207 BA

655005 **Telescope Sheath**, with LUER-Lock irrigation connector, shovel-shaped distal beak to brace telescope on bone, for retraction of tissue and pollution protection for the telescope, diameter 3.6 mm, working length 11.6 cm, for use with HOPKINS® Telescopes 7207 BA

**Endoscopically Supported Non-surgical Endodontic Therapy**

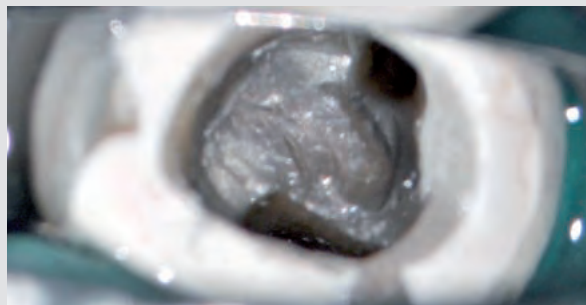
Endodontic therapy aims to eliminate microbial infection from the entire pulp chamber of the diseased tooth. Subsequent apical and coronal obturation with suitable filling materials intends to provide long-lasting protection against reinfection. Clinical access to the entire root canal system is essential to achieve both treatment goals safely and successfully. After exposure of the coronal portion of the pulp chamber, all existing branches of the radicular pulp spaces are identified and incrementally widened with the aid of special endodontic instruments. In clinical practice, these two steps are often inadequately completed due to the small size of the canals and, in some portions, the lack of a direct view. Magnification devices, particularly surgical microscopes, prove useful in endodontic therapy. In the past, dentists performed the procedure based on the anatomy of an average root canal, which regularly resulted in one or several branches on the root canal not being treated. Regardless of magnification, only those endodontic areas that are located within the path of light can be adequately viewed with the surgical microscope. Curvatures or undercuts, for instance, block the view of endodontologically

important apical portions of the root canals (Figs. 1 and 2). Viewing these portions of the root canal requires an endoscope. As the endodontic endoscope has a telescope diameter of 0.5 mm, the viewed portion of the root canal must be coronally expanded to an ISO size of 30. The telescope can then be inserted into the lumen of the canal and handled like rotating dental instruments. The view is focused by positioning the light exit surface approx. 1 mm coronal to the viewed canal wall. The small dimensions of the endodontic endoscope allow full view and control of the root canal system along the entire length up to the apical foramina (Figs. 3 to 5). The integration of the endoscopic telescope into a handpiece that is specifically designed for intraoral use and particularly the 70° angulation of the light path enable the visualization of the endodontic system of all tooth types, including molars.

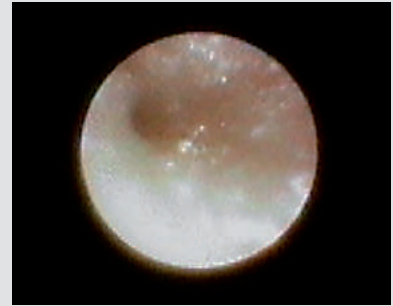
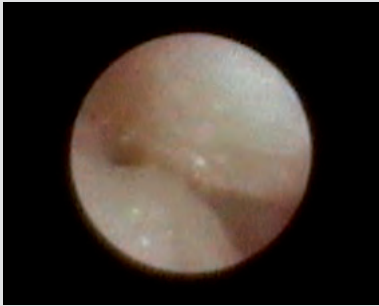
*Prof. Dr. Matthias FOLWACZNY,  
Ludwig Maximilian University,  
Department of Conservative Dentistry and Periodontology,  
Munich, Germany*



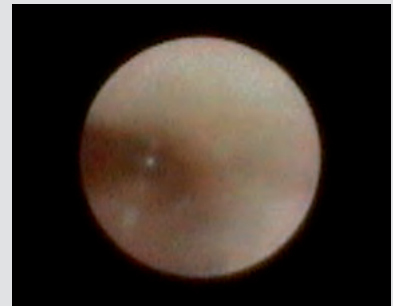
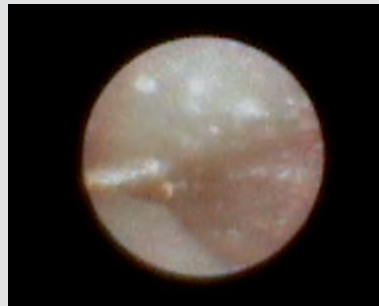
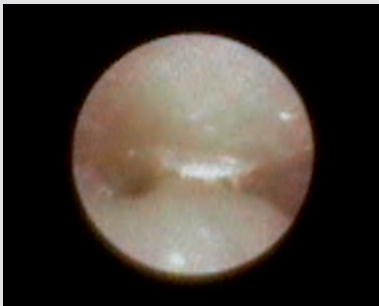
**Fig. 1:** Microscopic visualization of the access cavity at tooth 47 with shared coronal approach to the mesial root canals



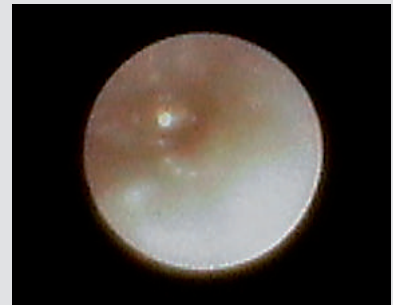
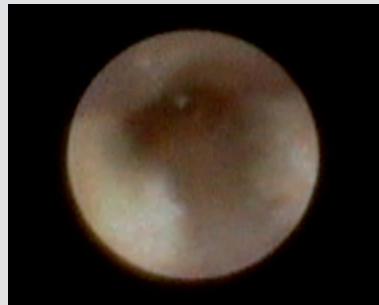
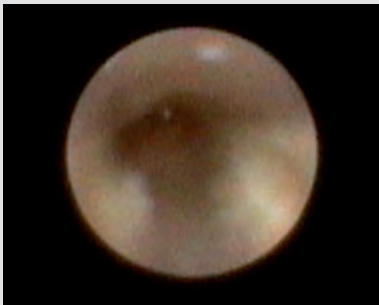
**Fig. 2:** Microscopic visualization of the access cavity to tooth 47 with coronal approach to the distal root canal



**Fig. 3:** Endoscopic visualization of the mesio-lingual root canal of tooth 47: (a) shared coronal portion of the mesial root canals, (b) middle portion, (c) apical portion with apical foramen



**Fig. 4:** Endoscopic visualization of the mesio-buccal root canal of tooth 47: (a) shared coronal portion of the mesial root canals, (b) middle portion, (c) apical portion with apical foramen



**Fig. 5:** Endoscopic visualization of the distal root canal of tooth 47: (a) coronal portion of the mesial root canals, (b) middle portion, (c) apical portion with apical foramen



11515

11515

**Miniature Straight Forward Telescope 0°**,  
angled handle, outer diameter 0.5 mm,  
working length 2 cm, remote eyepiece with  
fiber optic light transmission incorporated

# Endoscopically Assisted Internal Sinus Lift (EIS)

Supplementary Set for Implantology

## EIS Procedure for Augmentation and Implantation in the Lateral Maxilla

Implantology is gaining increasing importance in dental surgery to rehabilitate tooth loss. Especially in the lateral maxillary region, bone supply is often insufficient for primary implant placements. This is due to rapid atrophy of the spongy alveolar ridge as well as bone resorption on the sinus floor directly after tooth loss.

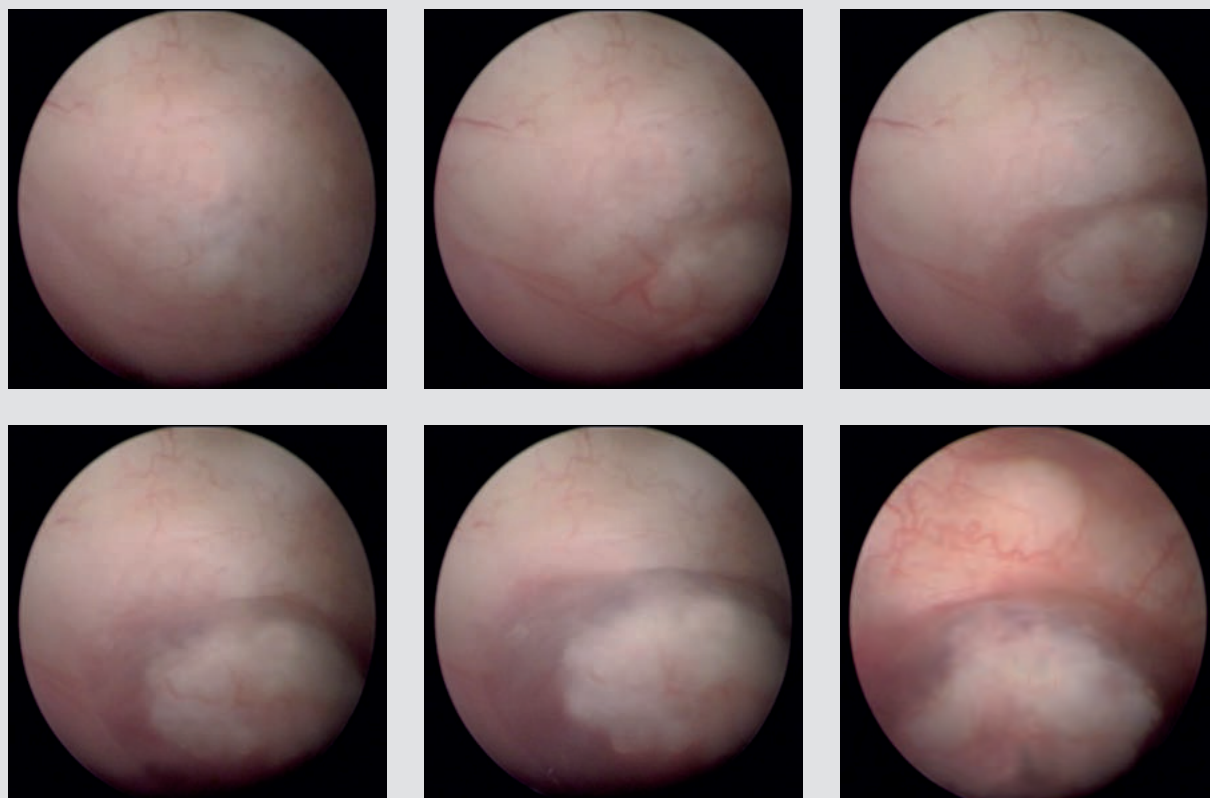
To ensure adequate primary stability of implants, the bone in the alveolar ridge should be at least 5 mm in width and 6 mm in height. If bone height/width is insufficient, primary augmentation and a two-staged surgical technique is preferred.

This procedure is particularly necessary if bone loss near neighboring teeth affects the vertical and transversal bone dimensions. A range of surgical procedures are currently available to improve horizontal bone supply in the lateral maxillary region.

Sinus floor elevation is frequently employed in pre-implant surgery.

The conventional sinus floor augmentation technique demonstrates a success rate of between 75% and 95%. This widely used sinus elevation procedure offers the benefits of a high clinical success rate, practical implementation and good visual control of the area to be augmented. It can be assumed that failure is usually related to infection. This is caused by an artificial perforation of the maxillary sinus membrane and the migration of filling material to the maxillary sinuses. In approx. 20% of cases, this may lead to maxillary sinus infections. Treatment time for the conventional procedure is over six months and usually requires bone removal, which carries the risk of removal morbidity. Direct evaluation of the maxillary sinuses to rule out pathologies is not possible intraoperatively.

The indirect Endoscopically-Controlled Internal Sinus Lift (EIS) technique can be used if there is a transversal and vertical bone supply of more than 5 mm. This offers benefits for patient management.





# Endoscopically Assisted Internal Sinus Lift (EIS)

Supplementary Set for Implantology

The operative procedure is the same as the standard implant at the beginning: Following incision of the mucosa and minimal elevation of the palatine and vestibular mucosa, the implant bed is placed approx. 1 mm below Schneider's membrane. An endoscope with a 70° telescope is inserted into the maxillary sinuses via the fossa canina. Using special chisels, the bone cover is detached transalveolarly from the alveolar recess and the maxillary sinus mucosa is lifted in the cranial direction under endoscopic control. It is then possible to insert a standard implant (length 12 mm).

Endoscopically controlled elevation and implantation enables safe and precise sinus floor elevation under visual control. It also provides reliable identification of a perforation and, depending on its extent and size, makes a suitable therapy for perforation closure possible.

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Stavanger, Norway*



58940 BK



58940 BK **Elevator**, bayonet-shaped, with scale, concave distal end, conical 2 mm/3.3 mm, working length 2.5 cm, total length 18 cm



58941 BK **Same**, conical 2.3/4.1 mm



58942 BK **Same**, conical 3/4.8 mm



58940 BV **Elevator**, bayonet-shaped, with scale, convex distal end, conical 2 mm/3.3 mm, working length 2.5 cm, total length 18 cm



58941 BV **Same**, conical 2.3/4.1 mm



58942 BV **Same**, conical 3/4.8 mm



58940 GK **Elevator**, straight, diameter 2.5 mm, working length 2.5 cm, total length 18 cm



58941 GK **Same**, diameter 3.5 mm



58942 GK **Same**, diameter 4.5 mm



58944 M



58944 HM **Gouge**, width 4.5 mm, working length 2.5 cm, total length 18 cm



58944 M **Chisel**, bilateral grinding, width 4.5 mm, working length 2.5 cm, total length 18 cm



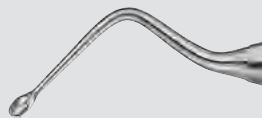
58944 O **Chisel**, unilateral grinding, width 4.5 mm, working length 2.5 cm, total length 18 cm



58960 ZR **Dental Probe**, fine, flexible, length 15.5 cm

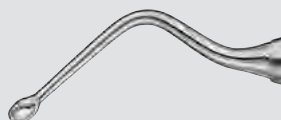


58962 R



58962 R

**HEMINGWAY Dental Curette**, double-ended, size 1, length 18.5 cm



58963 R

**HEMINGWAY Dental Curette**, double-ended, size 2, length 18.5 cm



58958 R

**HEIDEMANN Spatula**, double-ended, length 18.5 cm



174700

174700

**Metal Mallet**, with NYLON replacement, small, lightweight model, length 18 cm



525510

525510

**CASTROVIEJO Skin Measurement Caliper**, measurement range 0 – 15 mm, length 8 cm



723005 B

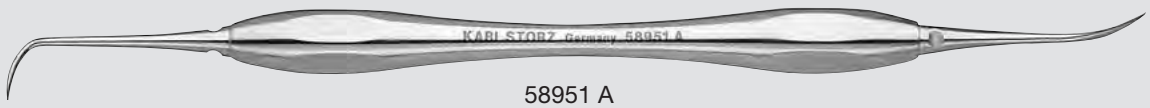
723005 B

**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







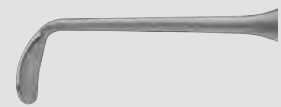
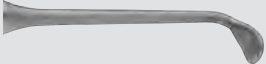

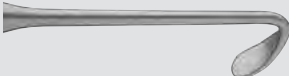






58940 EIS

**Metal Tray**, for the sterilization and storage of EIS instrument set

# Instrument Set for the External Sinus Lift <sup>NEW</sup>



58951 A

	58951 A	<b>KIRSCH-ACKERMANN Universal Raspatory,</b> double-ended, sinus 0	
	58951 B	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 1, elevator 25°	
	58951 C	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 2, elevator 60°/60°	
	58951 D	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 3, elevator 90°	
	58951 E	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 4, elevator 120°/120°	
	58951 F	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 5, elevator 90°/90°/60°	
	58951 G	<b>KIRSCH Sinus Elevator,</b> double-ended, sinus 6, elevator 90°/90°	
	58951 H	<b>KIRSCH Curette,</b> double-ended, sinus 7, size 8 x 10 mm	

# Instrument Set for the External Sinus Lift <sup>NEW</sup>



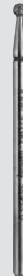
58952 K



58952 G



58953 HB



58953 D



58954

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

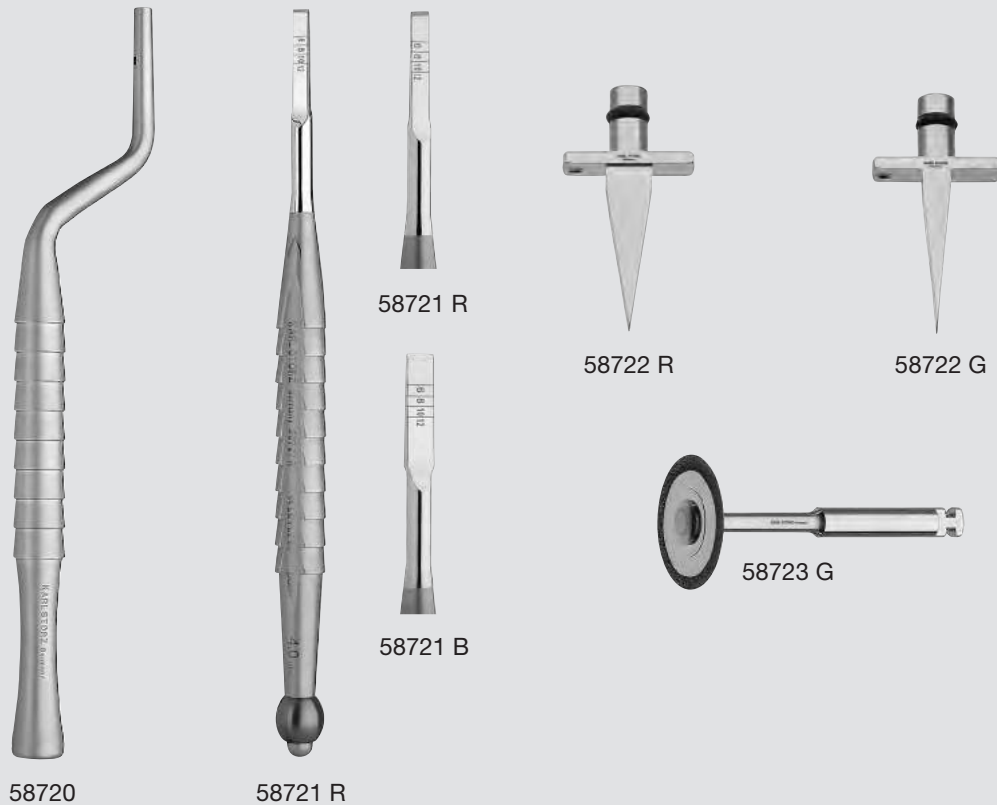
58952 G **Suction Tube**, curved, with titanium tips, slotted, diameter 3 mm, length 18 cm

58953 HB **HB Burr**, round, 031HF

58953 D **Diamond Burr**, round, 023C, diameter 2.3 mm

58954 **Mixing Cup**, stainless steel, with plastic lid, diameter 4 cm

11580 H **Metal Tray**, for sinus instrument set, stackable, with lid, incl. compartments



- 11580 G     **Metal Tray**, for bone splitting system, with compartments and lid
- 58720       **Wedge Applicator**, for bone splitting set
- 58721 R     **Pointed Chisel**, red, width 4 mm
- 58721 B     **Pointed Chisel**, blue, width 6 mm
- 58722 GR   **Wedge**, 2/2.2 mm, or bone splitting, color code: green
- 58722 R     **Same**, 2/3.5 mm, color code: red
- 58722 G     **Same**, 3/2.2 mm, color code: yellow
- 58722 B     **Same**, 3/3.5 mm, color code: blue
- 58723 G     **Circular Saw**, diameter 10 mm, with angle
- 58723 K     **Same**, diameter 8 mm

# Endoscopically Controlled Root-End Resection

Recommended Set by Dr. SCHLEIER

A number of diverse surgical methods are available for tooth preservation which are gaining widespread acceptance in oral surgery.

As early as 1896, PARTSCH described the surgical treatment of chronic apical parodontitis via root-end resection. Removing the apical one-third of the root and its ramifications in conjunction with the excochleation of granulation tissue is a surgical procedure that attempts to eliminate the causes and pathological bone changes of chronic periapical ostitis. Bacteria-proof closure of the root canal in the resected area prevents reinfection of the bone.

On the one hand, the success of root-end resections is chiefly based on diagnosis. On the other hand, the success rate can be notably improved if optical aids (microscope and endoscope) are used to perform a visual inspection to check the completeness of the resection and the compactness of apical root fillings. Furthermore, the use of an endoscope makes image documentation during an operation possible.

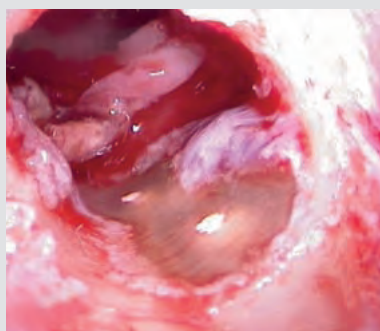
With the aid of an endoscope, it is possible to perform minimal resection and to successfully include distal molars in this therapy.

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Department of Oral and Maxillofacial Surgery,  
Stavanger University Hospital, Stavanger,  
Norway*

## Endoscopic images of a root-end resection:



**Fig. 1:** Root fracture with incomplete root filling at tooth 45, causing chronic periapical ostitis



**Fig. 2:** Compact root filling of both canals with uncompleted palatine root resection at tooth 24 with granulation tissue



**Fig. 3:** Compact root filling, complete root resection and granulation tissue removal at tooth 23

# Instruments for Root-End Resection

Recommended Set by Dr. SCHLEIER



58944 M



58944 M

**Chisel**, bilateral grinding, width 4.5 mm, working length 2.5 cm, total length 18 cm



58944 HM

**Gouge**, width 4.5 mm, working length 2.5 cm, total length 18 cm



58944 O

**Chisel**, unilateral grinding, width 4.5 mm, working length 2.5 cm, total length 18 cm

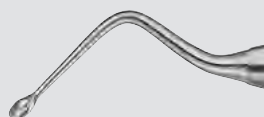


58960 ZR

**Dental Probe**, fine, flexible, length 15.5 cm

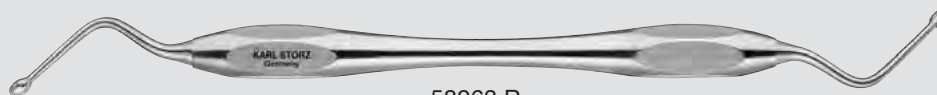
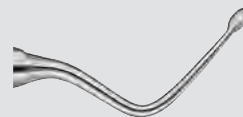


58962 R

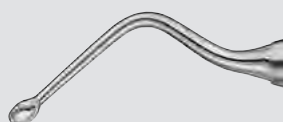


58962 R

**HEMINGWAY Dental Curette**, double-ended, size 1, length 18.5 cm



58963 R



58963 R

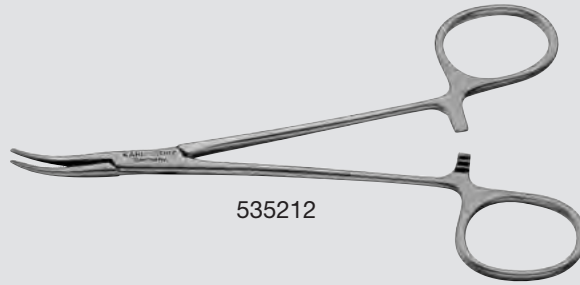
**HEMINGWAY Dental Curette**, double-ended, size 2, length 18.5 cm





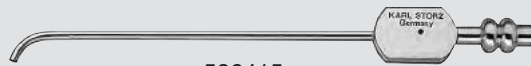
# Instruments for Root-End Resection

Recommended Set by Dr. SCHLEIER



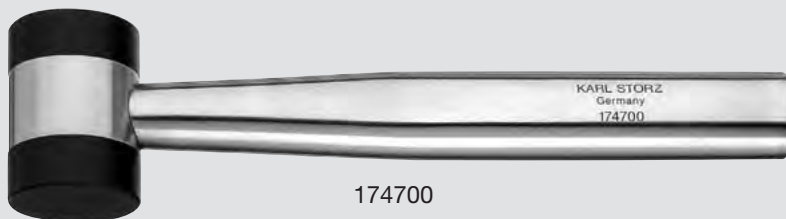
535212

535212 HALSTEAD "Mosquito" Artery Forceps,  
curved, length 12.5 cm



586415

586415 v. EICKEN Antrum Cannula, LUER-Lock,  
with cut-off hole, long curve, outer  
diameter 1.5 mm, length 12.5 cm



174700

174700 **Metal Mallet**, with NYLON replacement,  
small, lightweight model, length 18 cm

58940 WSR **Metal Tray**, for the sterilization and  
storage of the RTR set

# KARAM Tissue Retractor <sup>NEW</sup>

The tissue retractor for grasping and retracting tissue is used in aesthetic, reconstructive as well as oral and maxillary surgery. The instrument can be used instead of two retraction instruments as previously required.

This allows the assistant to retain a free hand for other tasks, such as cutting suture material, coagulation or suction in the surgical field.

*Dr. KARAM,  
Amchit, Lebanon*

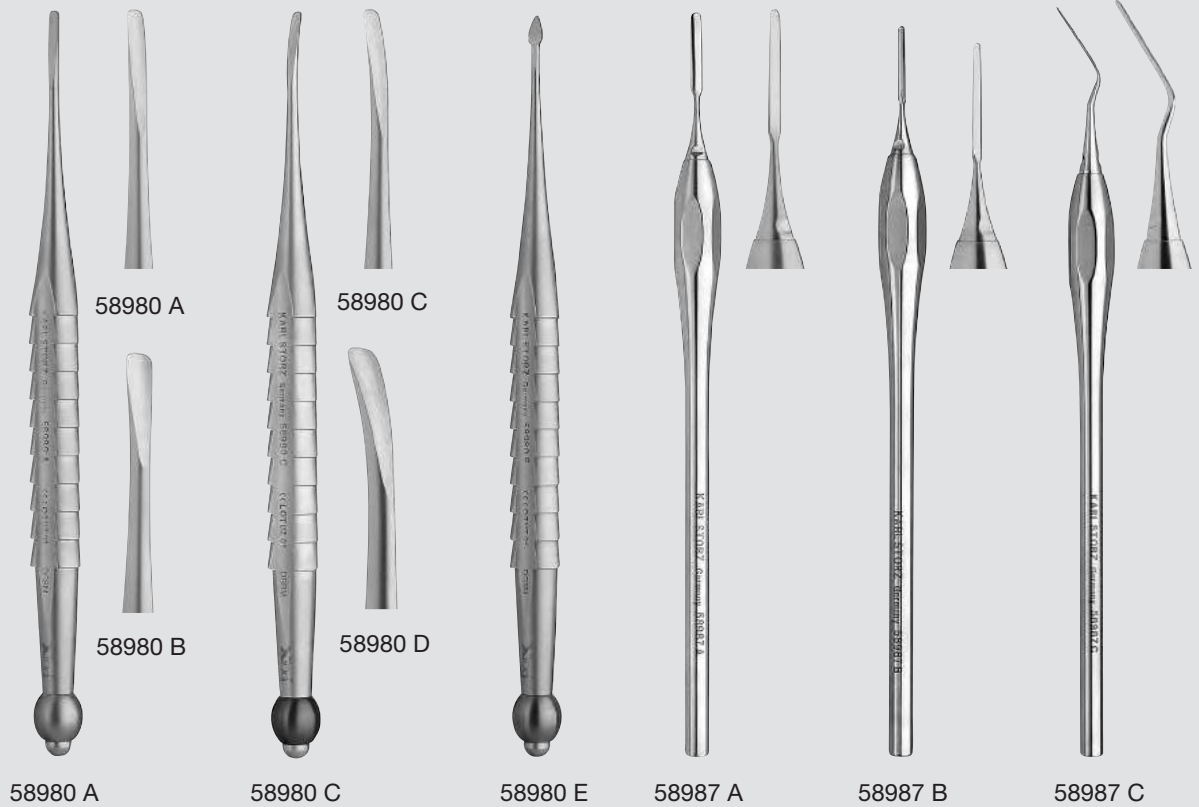
## The main indications are:

- Surgical access to maxillary "LE FORT" osteomies as well as other maxillary approaches to tumors
- Surgical access for chin correction, separately or in the context of orthognathic procedures
- Flap retraction in facelifts
- Any oral access for lip or jaw surgery
- Any procedure requiring extensive retraction

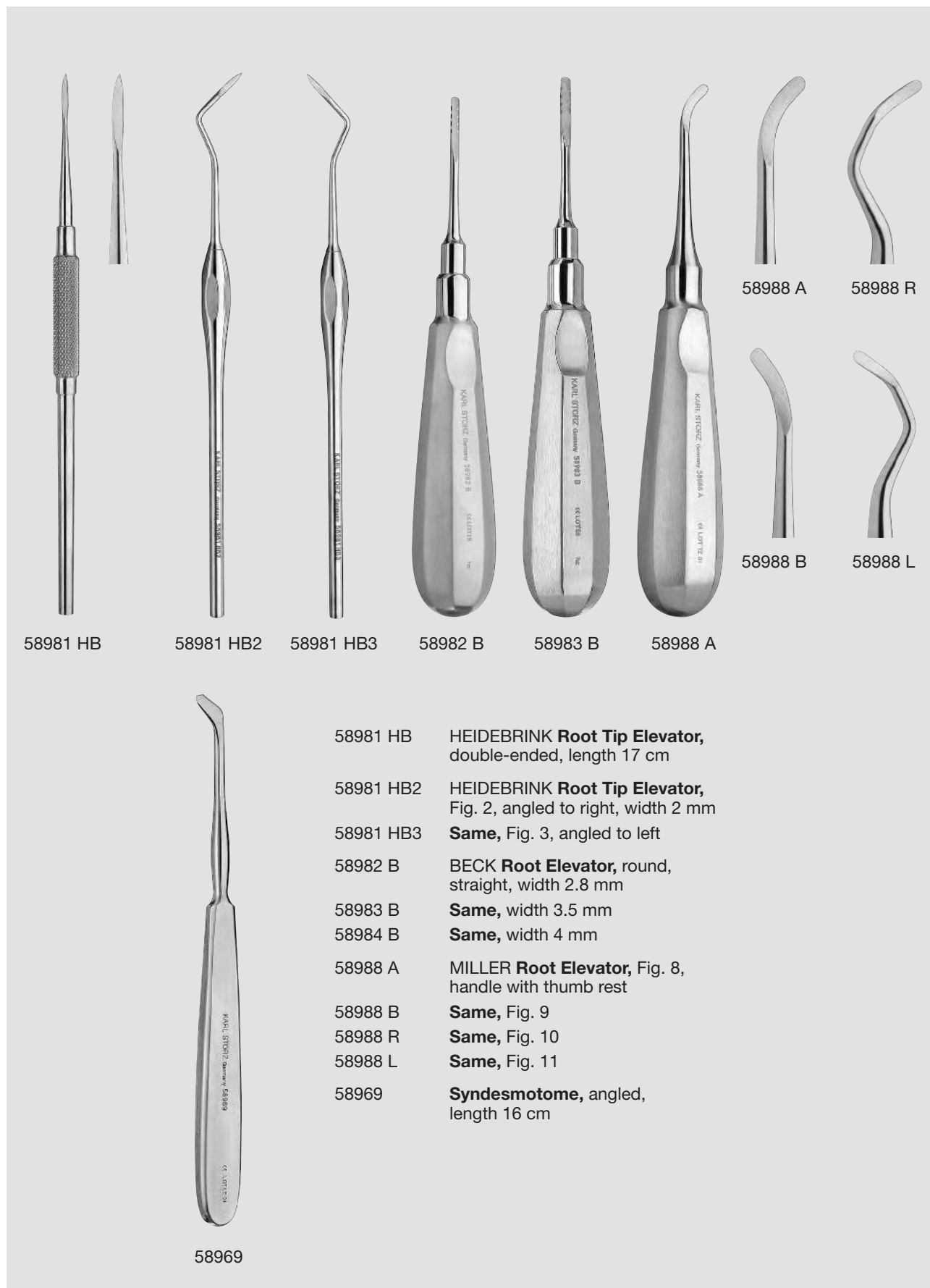


50205 EK **Tissue Retractor**, with ratchet, for retraction of tissue during surgical procedures to the face

# Luxation Tools, Atraumatic Tooth Extraction <sup>NEW</sup>



- 58980 A     **Luxation Tool 1**, straight, working end 2.5 mm, with green sphere
- 58980 B     **Luxation Tool 2**, straight, working end 4.5 mm, with green sphere
- 58980 C     **Luxation Tool 3**, curved, working end 2.5 mm, with blue sphere
- 58980 D     **Luxation Tool 4**, curved, working end 4.5 mm, with blue sphere
- 58980 E     **Desmo Tool**, straight, working end 4 mm, with golden sphere
- 58987 A     **Periotome**, P1
- 58987 B     **Periotome**, P2
- 58987 C     **Periotome**, P3



58981 HB

58981 HB2

58981 HB3

58982 B

58983 B

58988 A

58988 A

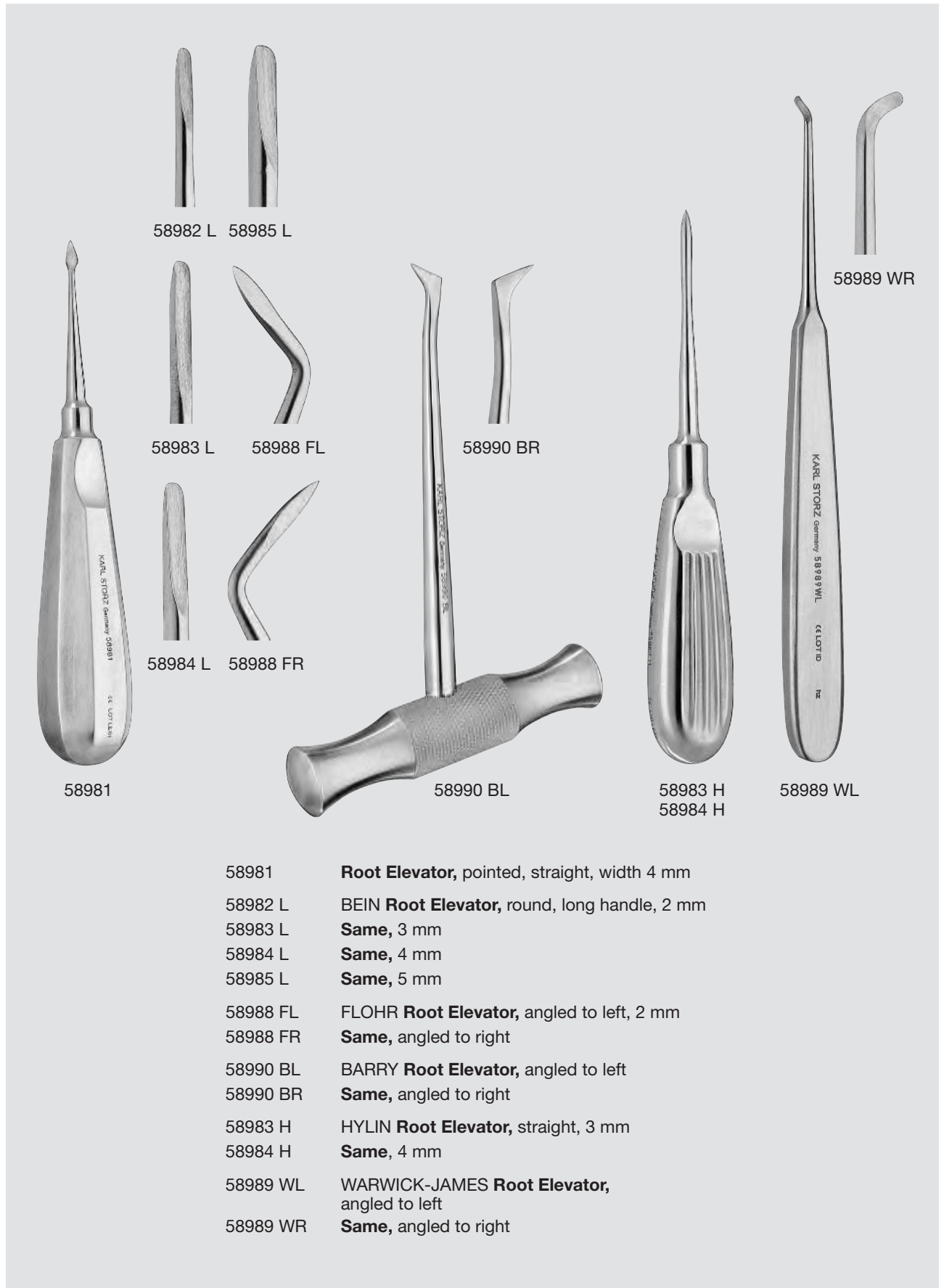
58988 R

58988 B

58988 L

58969

- 58981 HB HEIDEBRINK **Root Tip Elevator**, double-ended, length 17 cm
- 58981 HB2 HEIDEBRINK **Root Tip Elevator**, Fig. 2, angled to right, width 2 mm
- 58981 HB3 **Same**, Fig. 3, angled to left
- 58982 B BECK **Root Elevator**, round, straight, width 2.8 mm
- 58983 B **Same**, width 3.5 mm
- 58984 B **Same**, width 4 mm
- 58988 A MILLER **Root Elevator**, Fig. 8, handle with thumb rest
- 58988 B **Same**, Fig. 9
- 58988 R **Same**, Fig. 10
- 58988 L **Same**, Fig. 11
- 58969 **Syndesmotome**, angled, length 16 cm



58982 L 58985 L

58983 L 58988 FL

58984 L 58988 FR

58981

58990 BL

58990 BR

58983 H  
58984 H

58989 WR

58989 WL

- 58981 **Root Elevator**, pointed, straight, width 4 mm
- 58982 L **BEIN Root Elevator**, round, long handle, 2 mm
- 58983 L **Same**, 3 mm
- 58984 L **Same**, 4 mm
- 58985 L **Same**, 5 mm
- 58988 FL **FLOHR Root Elevator**, angled to left, 2 mm
- 58988 FR **Same**, angled to right
- 58990 BL **BARRY Root Elevator**, angled to left
- 58990 BR **Same**, angled to right
- 58983 H **HYLIN Root Elevator**, straight, 3 mm
- 58984 H **Same**, 4 mm
- 58989 WL **WARWICK-JAMES Root Elevator**, angled to left
- 58989 WR **Same**, angled to right



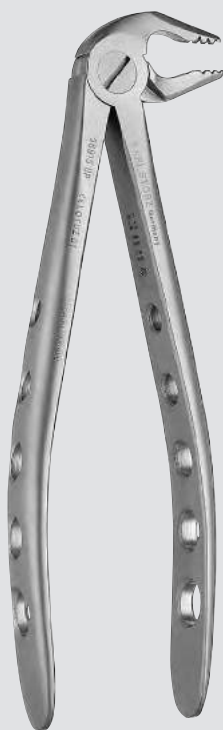
58915 OS

58915 OP

58915 ORW

58915 OLW

58915 US



58915 UP

- 58915 OS **Extracting Forceps**, Fig. 34 M, English pattern, modified, for upper incisors and canines, special tapered jaws, deep-gripping
- 58915 OP **Extracting Forceps**, Fig. 35 M, English pattern, modified, for upper premolars, special tapered jaws, deep-gripping
- 58915 ORW **Extracting Forceps**, Fig. 17, English pattern, modified, for upper right third molars and molars, special tapered jaws
- 58915 OLW **Extracting Forceps**, Fig. 18, English pattern, modified, for upper left third molars and molars, special tapered jaws
- 58915 US **Extracting Forceps**, Fig. 36 M, English pattern, modified, for lower incisors and premolars, special tapered jaws, deep-gripping
- 58915 UP **Extracting Forceps**, Fig. 13, English pattern, modified, for lower premolars, special tapered jaws



58915 UWM



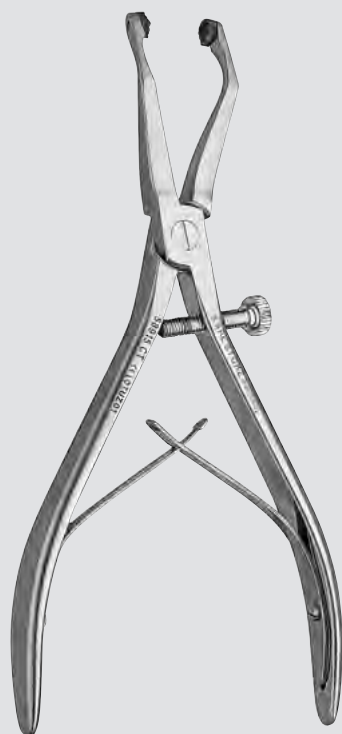
58915 OW



58915 UW



58915 KS



58915 CT

58915 UWM **Extracting Forceps**, Fig. 22, English pattern, modified, for lower third molars and molars, special tapered jaws

58915 OW **Extracting Forceps**, Fig. 67 A, English pattern, modified, for upper third molars, special tapered jaws

58915 UW **Extracting Forceps**, Fig. 79, English pattern, modified, for lower third molars, special tapered jaws

58915 KS **Crown Spreader Forceps**, length 14.5 cm

58915 CT **Crown Forceps "EXCLUSIV"**, with adjusting screw and retaining spring, 20 polymer plastic jaws and 10 g Diatrac adhesive powder



58917 EK

58918 E

58920 WE

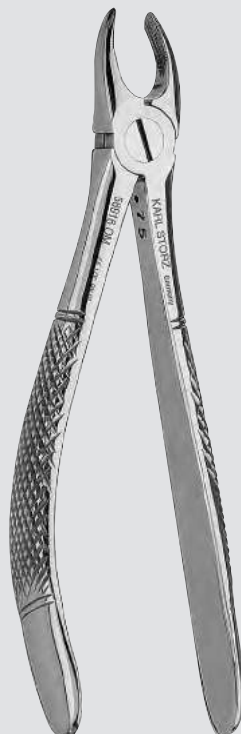
58921 WE

- 58917 EK     **Extracting Forceps**, for children, Fig. 39 R, English pattern, for upper molars right
- 58918 E     **Extracting Forceps**, Fig. 67, English pattern, for upper third molars
- 58920 WE    **Extracting Forceps**, Fig. 33 M, English pattern, for lower roots
- 58921 WE    **Same**, Fig. 233





58916 OS



58916 OM



58916 OW

58916 OS **Extracting Forceps**, Fig. 37,  
English pattern, for upper incisors

58916 OM **Extracting Forceps**, for children, Fig. 39,  
English pattern, for upper molars

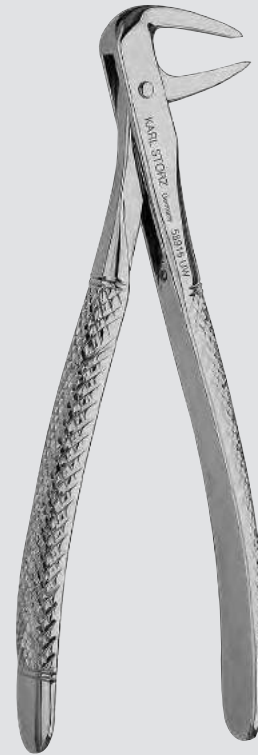
58916 OW **Extracting Forceps**, for children, Fig. 51 S,  
English pattern, for upper roots and front teeth



58916 US



58916 UM



58916 UW

- 58916 US **Extracting Forceps**, for children, Fig. 13 S, English pattern, for lower incisors and premolars
- 58916 UM **Extracting Forceps**, for children, Fig. 22 S, English pattern, for lower molars
- 58916 UW **Extracting Forceps**, for children, Fig. 162, English pattern, for lower roots



58910 WE



58911 E



58911 WE



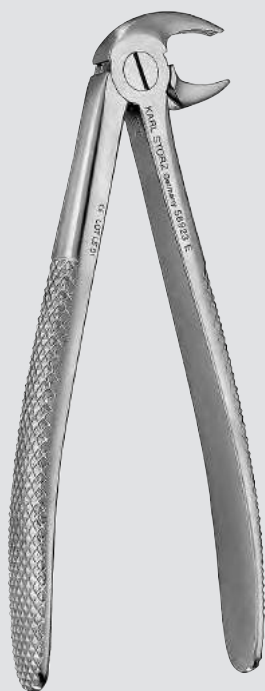
58912 WE

- 58910 WE     **Extracting Forceps**, Fig. 51, English pattern, upper jaw, for roots
- 58911 E     **Extracting Forceps**, Fig. 37, English pattern, upper jaw, for incisors and cuspids
- 58911 WE    **Extracting Forceps**, Fig. 51 A, English pattern, upper jaw, for roots
- 58912 WE    **Same**, Fig. 501



- 58913 E      **Extracting Forceps**, Fig. 7, English pattern, upper jaw, for bicuspid
- 58916 EE    **Extracting Forceps**, Fig. 18, English pattern, upper jaw, for molars left
- 58916 EK    **Extracting Forceps**, for children, Fig. 39L, English pattern, upper jaw, for molars left
- 58917 EE    **Extracting Forceps**, Fig. 17, English pattern, upper jaw, for molars right

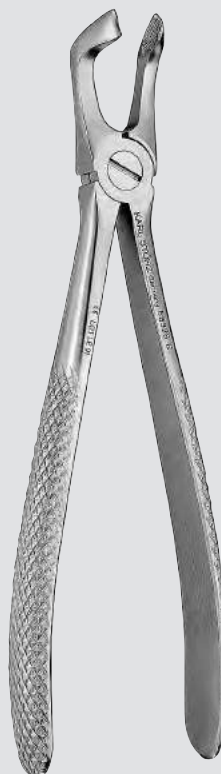
## Extraction



58923 E



58927 E



58928 E



58929 E



58919 E

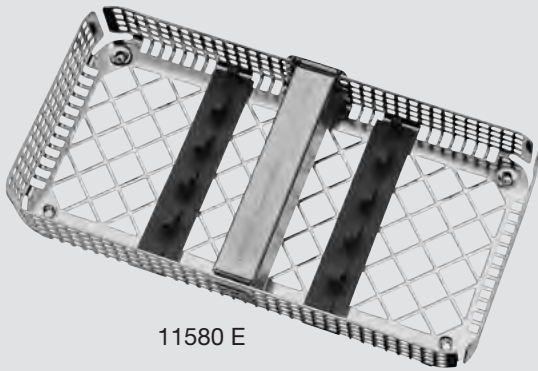


58928 F

- 58923 E **Extracting Forceps**, Fig. 13, English pattern, upper jaw, for premolars
- 58927 E **Extracting Forceps**, Fig. 73, English pattern, lower jaw, for molars
- 58928 E **Extracting Forceps**, Fig. 79 A, English pattern, lower jaw, for third molars
- 58929 E **Extracting Forceps**, Fig. 86 C, English pattern, lower jaw, for molars
- 58919 E **Extracting Forceps**, Fig. 3 FS, upper jaw, for molars
- 58928 F **Extracting Forceps**, Fig. 79, English pattern, lower jaw, for third molars

# Accessories

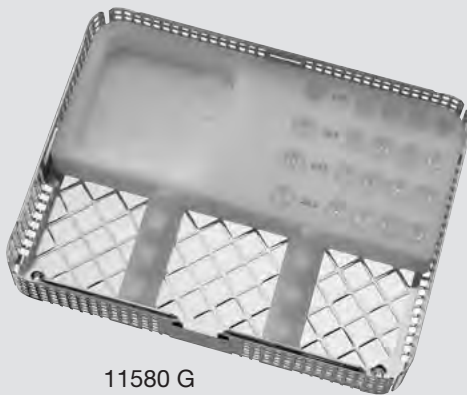
## Metal Trays



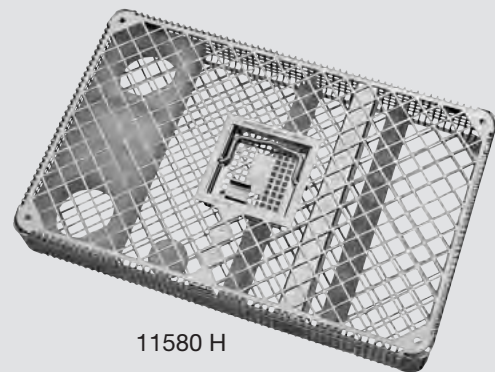
11580 E



11580 F



11580 G



11580 H

- 11580 E **Metal Tray**, for 5 instruments, with 2 instrument supports and 1 tie-down, external dimensions (w x d x h): 178 x 90 x 24 mm
- 11580 F **Metal Tray**, for 8 instruments, with 2 instrument supports and 1 tie-down, external dimensions (w x d x h): 178 x 140 x 24 mm
- 11580 G **Metal Tray**, for bone splitting system, with compartments and lid
- 11580 H **Metal Tray**, for sinus instrument set, stackable, with lid, incl. compartments

# Accessories

## Metal Trays



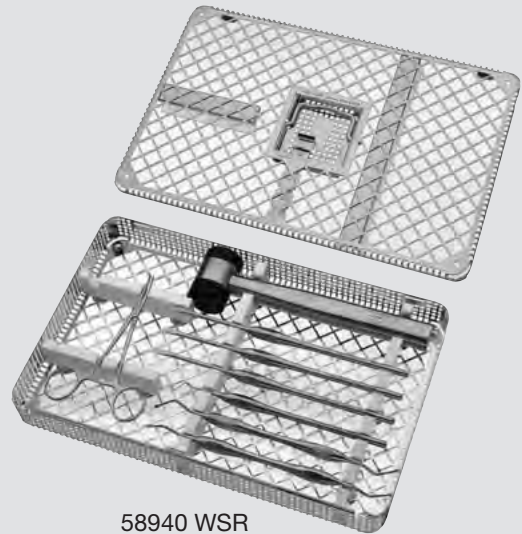
11580 I



239728 S



58940 EIS



58940 WSR

11580 I

**Metal Tray**, for bone mill,  
with compartments and lid

239728 S

**Metal Tray**, for sterilization and storage of oral surgery  
basic set, perforated, lid with silicone bridges, external  
dimensions (w x d x h): 275 x 178 x 24 mm

58940 EIS

**Metal Tray**, for the sterilization and  
storage of EIS instrument set

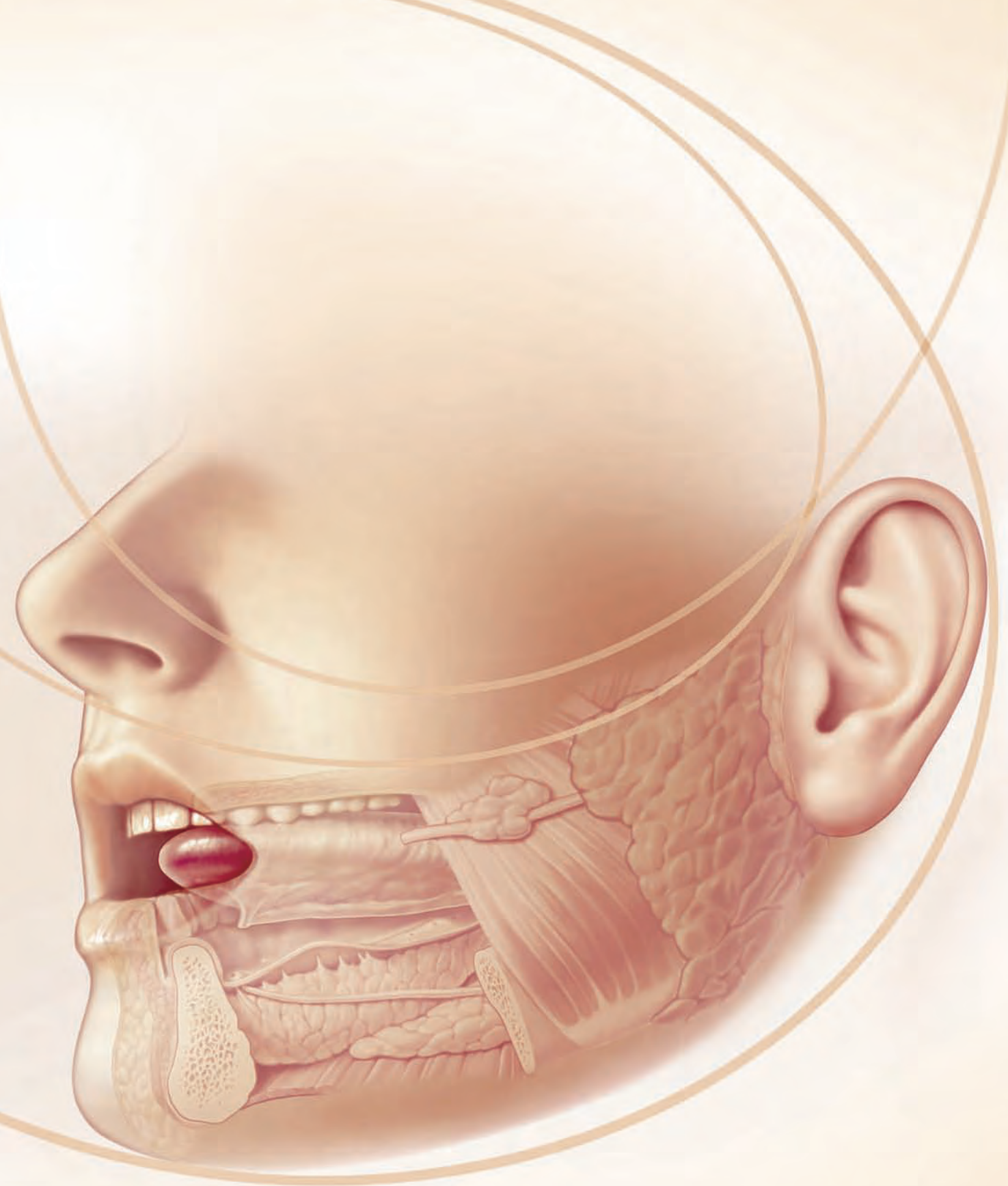
58940 WSR

**Metal Tray**, for the sterilization and  
storage of the RTR set

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

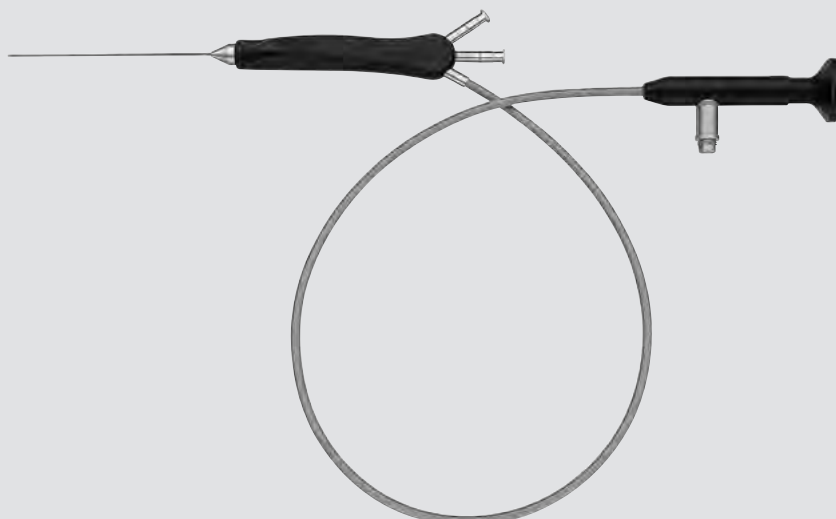






**TELESCOPES AND INSTRUMENTS  
FOR SIALENDOSCOPY**

## ERLANGEN ALL-IN-ONE Miniature Endoscopes



11573 A

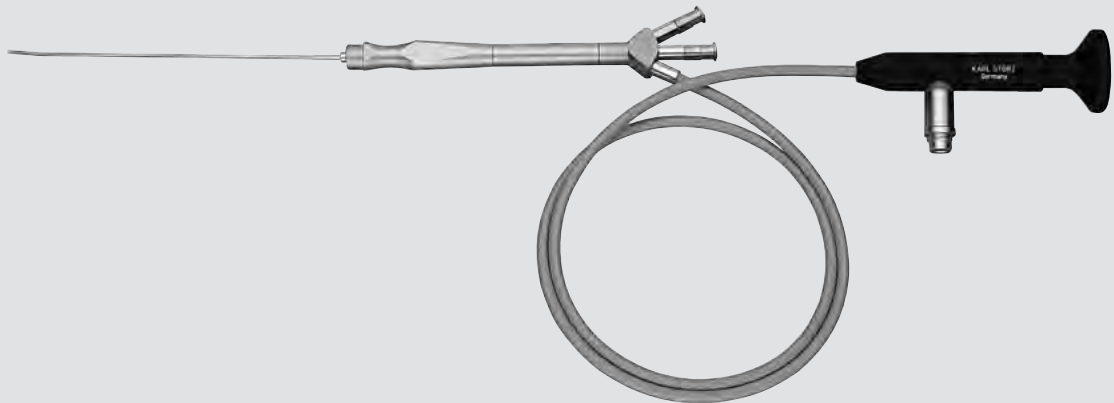
- 11572 A      **Miniature Straight Forward Telescope 0°**, diameter 0.8 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated
- 11573 A      **Miniature Straight 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

Instruments and Metal Trays see pages 128-134

# MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

## 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:**

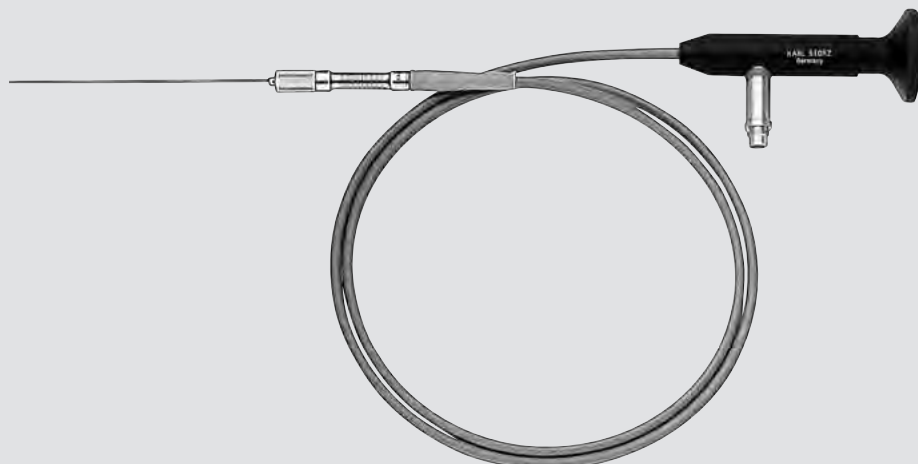
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Foreign Body Forceps 11583 TJ
- Biopsy Forceps 11583 ZJ
- Laser Probe
- Balloon Catheter 11583 BP

**Instruments and Metal Trays** see pages 128-134

# MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

## Miniature Endoscopes for Children and Adolescents MARCHAL Modular System

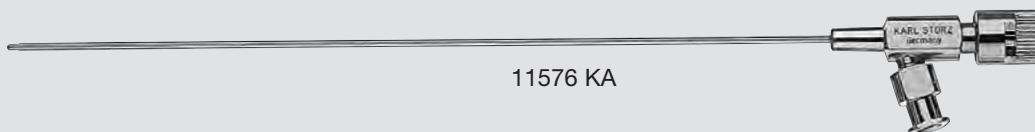


11576 A

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

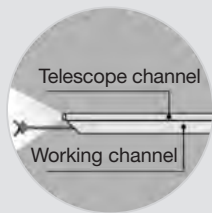
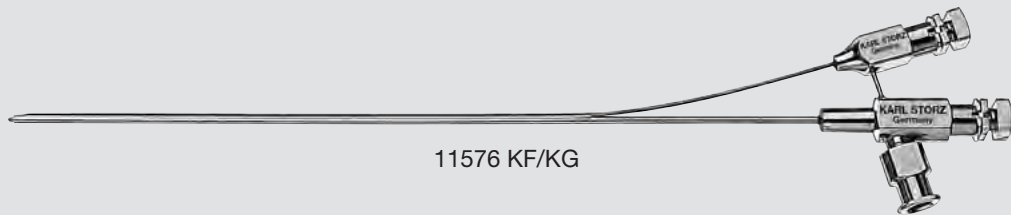
**Examination Sheath**, diameter 1.1 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11576 A

# MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

## Miniature Endoscopes for Children and Adolescents MARCHAL Modular System

### Operating Sheaths

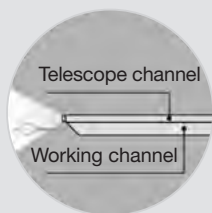


11576 KF

**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
- Foreign Body 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:**

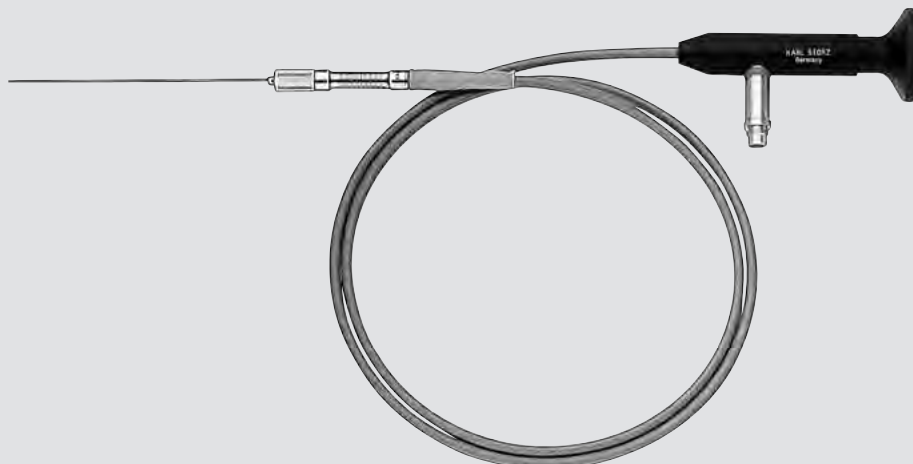
- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

**Instruments** see pages 128-132

# MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

## Miniature Endoscopes for Adults MARCHAL Modular System

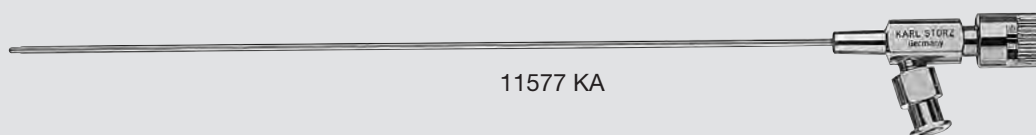


11577 A

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

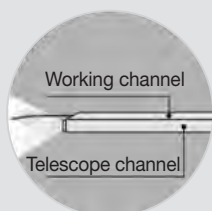
**Examination Sheath**, diameter 1.3 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11577 A

# MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

## Miniature Endoscopes for Adults MARCHAL Modular System

### Operating Sheaths

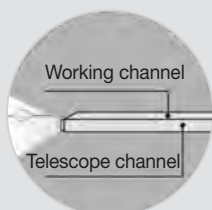


11577 KE

**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
- Foreign Body Forceps 11576 TJ
- Biopsy Forceps 11576 ZJ
- Laser Probe



11577 KD

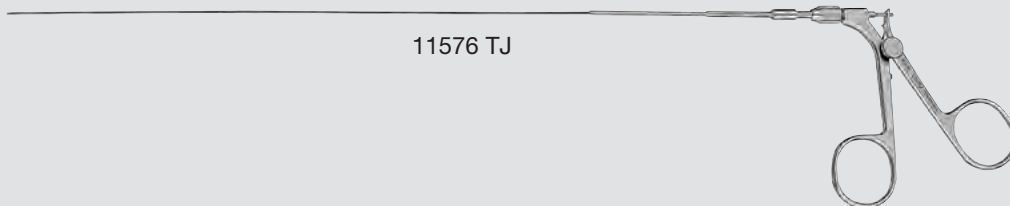
**Operating Sheath**, oval, diameter 1.3 and 0.8 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

**for use with:**

- Miniature Straight Forward Telescope 11577 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

## 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

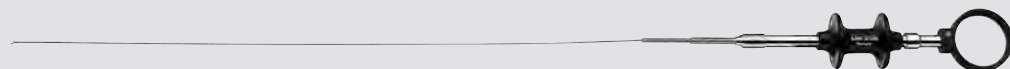
**Foreign Body Forceps**, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A



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

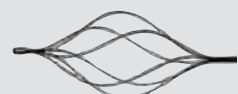


## Stone Extractors, Balloon Catheters, Guide Wires, Burrs



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

## Forceps and Angled Scissors

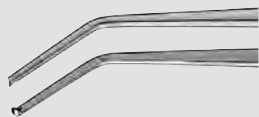


745715



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

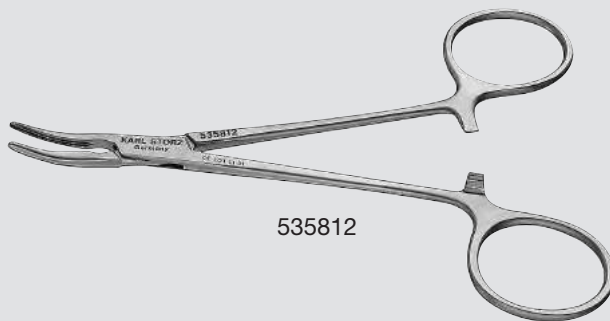
745719

**METZENBAUM Scissors**, for sialolithotomy,  
curved, sharp/sharp, length 18 cm

# Instruments

for Sialendoscopy

## Artery Forceps



535812

535812

DE BAKEY "Mosquito" Artery Forceps,  
atraumatic, curved, length 12 cm

## Mouth Gags



58195



58194

MOLT Mouth Gag, large model,  
length 14 cm

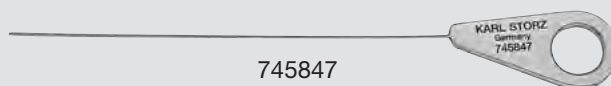


58195

DEHNHARDT Mouth Gag, length 12.5 cm

## Dilation Instruments

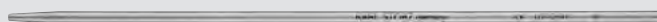
### Salivary Duct Probes



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 <b>Bougie</b> , diameter 1 mm, for use with Guide Wire 745725
745709	<b>Same</b> , diameter 1.5 mm
745710	MARCHAL <b>Bougie</b> , diameter 2 mm, for use with Guide Wire 745720 and 745725
745711	<b>Same</b> , diameter 2.5 mm
745712	<b>Same</b> , diameter 3 mm
745713	<b>Same</b> , diameter 3.5 mm

### Dilators



745900



745910

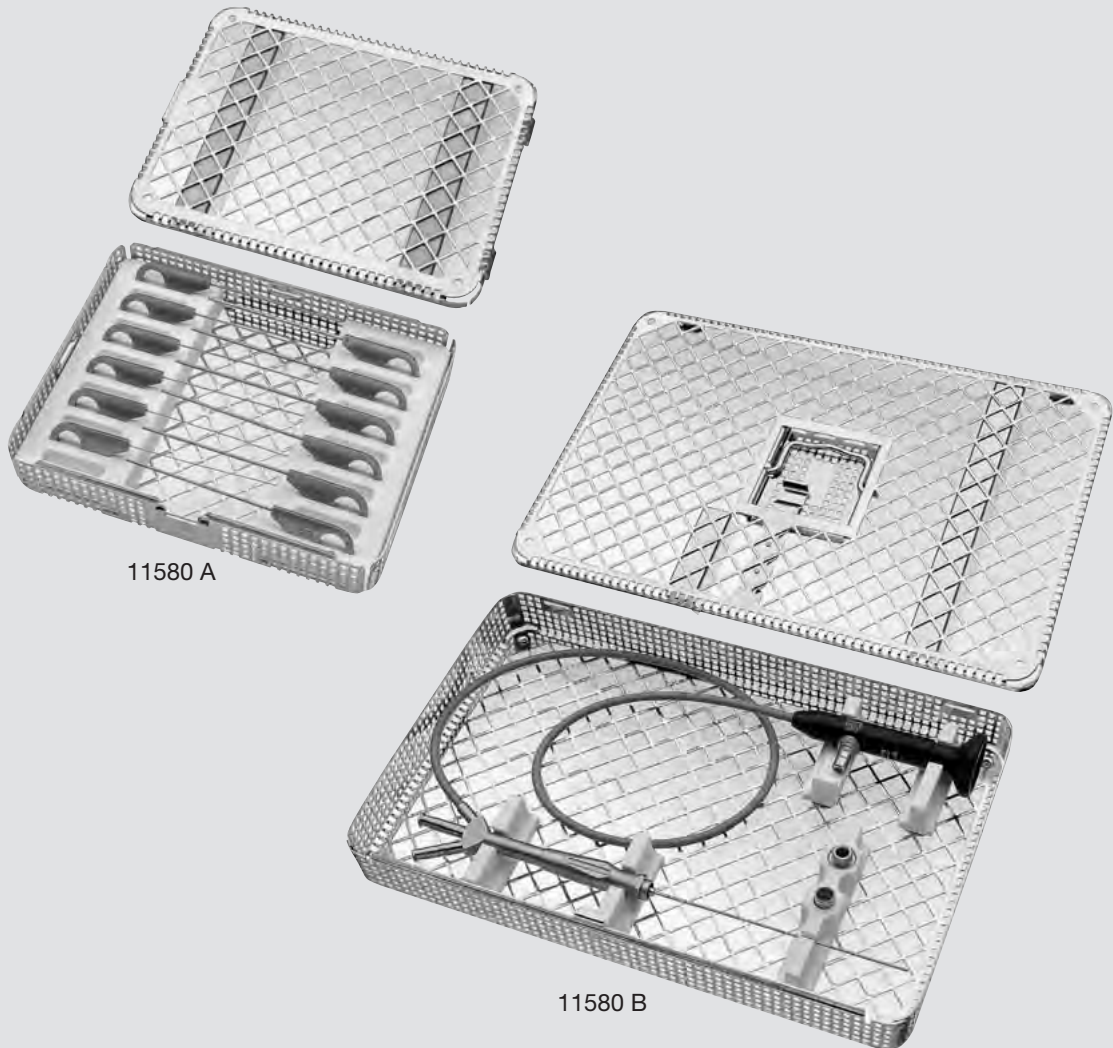


745920

745900	WILDER <b>Dilator</b> , for salivary duct, length 11 cm
745905	<b>Dilator</b> , for salivary duct (Wharton duct), very pointed
745910	<b>Dilator</b> , for salivary duct, length 14 cm
745920	<b>Dilator</b> , for salivary duct, size 1, diameter 0.5 – 0.8 mm, length 11.5 cm
745921	<b>Same</b> , size 2, diameter 0.7 – 1 mm
745922	<b>Same</b> , size 3, diameter 0.9 – 1.2 mm
745923	<b>Same</b> , size 4, diameter 1 – 1.6 mm
745924	<b>Same</b> , size 5, diameter 1.3 – 1.8 mm

# Accessories

## Metal Trays



11580 A

11580 B

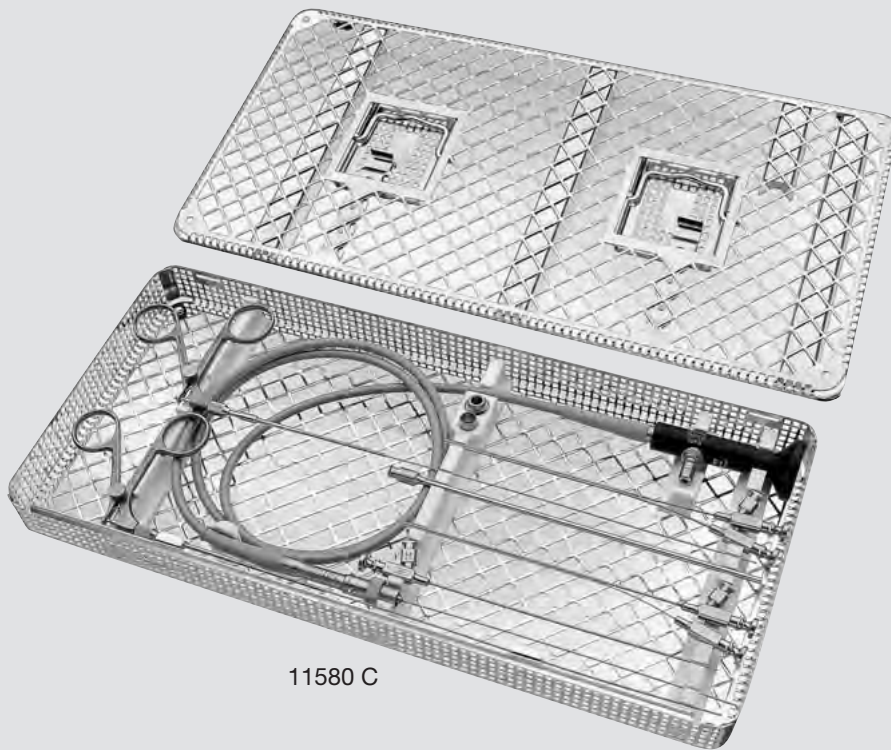
11580 A **Metal Tray**, for sterilization and storage of Salivary Duct Probes 745847 – 745858 and Dilator 745910, perforated, lid with silicone bridges, external dimensions (w x d x h): 178 x 135 x 37 mm

11580 B **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A or 11583 A, perforated, lid with silicone bridges, with port for irrigation adaptor, external dimensions (w x d x h): 275 x 178 x 35 mm

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

# Accessories

## 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

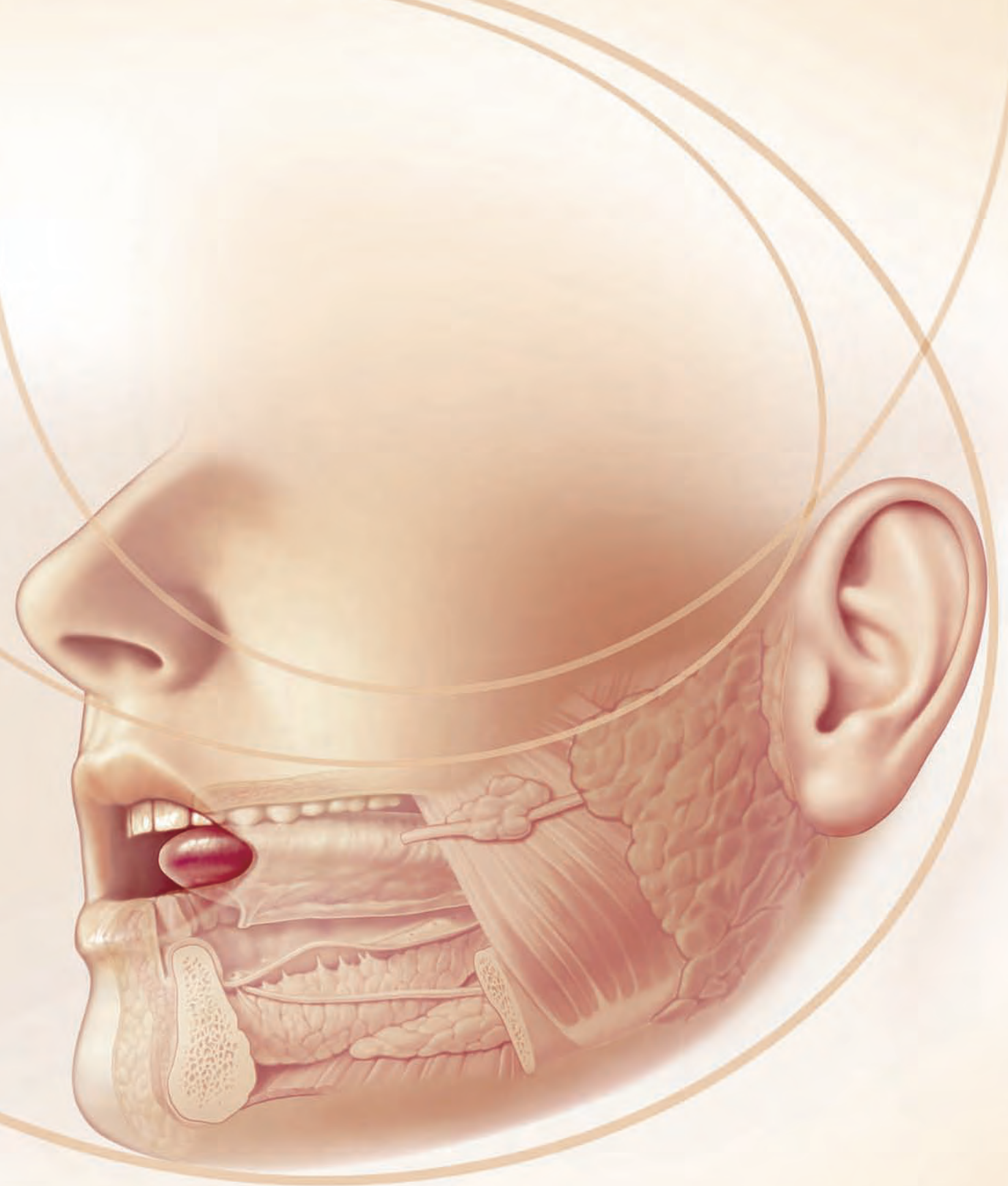
### Cleaning

- 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

Extracorporeal shock wave lithotripsy for salivary stones with **STORZ MINILITH SL 1** see page U 6

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



**FLEXIBLE ENDOSCOPES**





# CMOS Video Rhino-Laryngoscope <sup>NEW</sup>

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, the **CMOS video rhino-laryngoscope** provides a convenient and fast solution for the doctor's office, house calls or consultation purposes.

## Special Features:

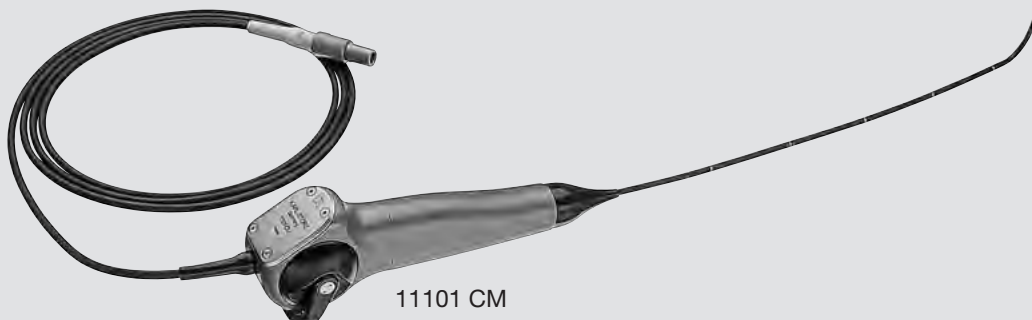
- "All-in-one" solution meets convenience – the lightweight monitor combined with the CMOS video rhino-laryngoscope offer quick installation and great flexibility
- CMOS chip technology for good image quality
- Optimal field of view for excellent visualization of pathologies
- Large angle of view for optimal orientation
- Integrated LED light source for optimal illumination
- Sensitive yet robust control through ergonomic handle
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable via EtO gas, Sterrad® and Steris® System 1

## Special Features of Monitor:

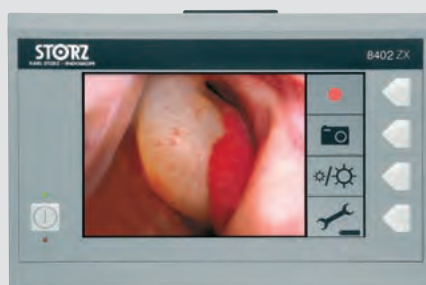
- Compact design
- CMOS technology with 320 x 240 pixels
- Image can be rotated by 180°
- 7" TFT wide-view angle display with resolution of 800 x 480 pixels
- Resistant ABS plastic housing
- Splash-proof according to IP 54
- LED illumination
- Documentation of videos and images on SD memory card
- Cinch video output for connecting external monitor
- Operation with line voltage and rechargeable lithium-ion batteries – also possible during charging
- VESA 75 norm for connecting and attaching further accessories



# CMOS Video Rhino-Laryngoscope <sup>NEW</sup>



11101 CM



8402 ZX

**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 in delivery:**

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

**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 in delivery:**

11101 CMK	<b>CMOS Video Rhino-Laryngoscope KIT</b>
8402 ZX	<b>Monitor for CMOS endoscopes</b>

# Rhino-Fiberscopes

for the diagnosis of the velopharyngeal closure pattern in patients with cleft lips and palates


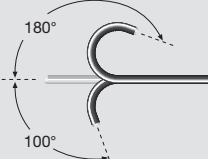

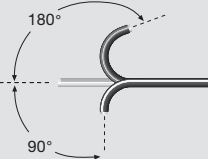

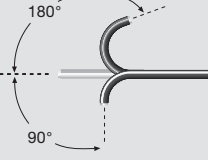

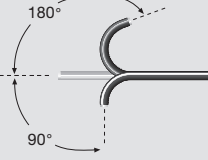
## Special Features:

- 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®
- Recommended for use with the KARL STORZ ENDOVISION® TELECAM system
- Exceptional optical quality of both lens and fiber optic image transmission bundle
- Superior life span due to robust mechanical design

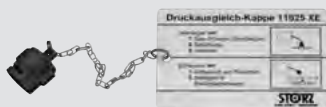


# Rhino-Fiberscopes

## Overview

Rhino-Fiberscopes	Order No.		Deflection	Direction of View	Angle 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:



11025 E

27677 BB

**Case**

27677 RR

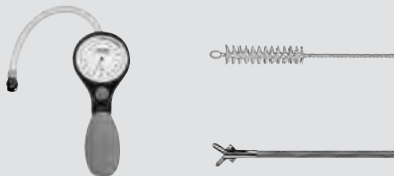
**Case**

11025 E

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

13242 XL

**Leakage Tester**, with bulb and manometer



13242 XL

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

Working Length	Working Channel Inner Diameter	Distal Tip Outer Diameter	Case	Accessories included					
				Pressure Compensation Cap	Leakage Tester	Cleaning Brush	Biopsy Forceps	Grasping Forceps	
34 cm	1.5 mm	3.5 mm	27677 BB	11025 E	13242 XL	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



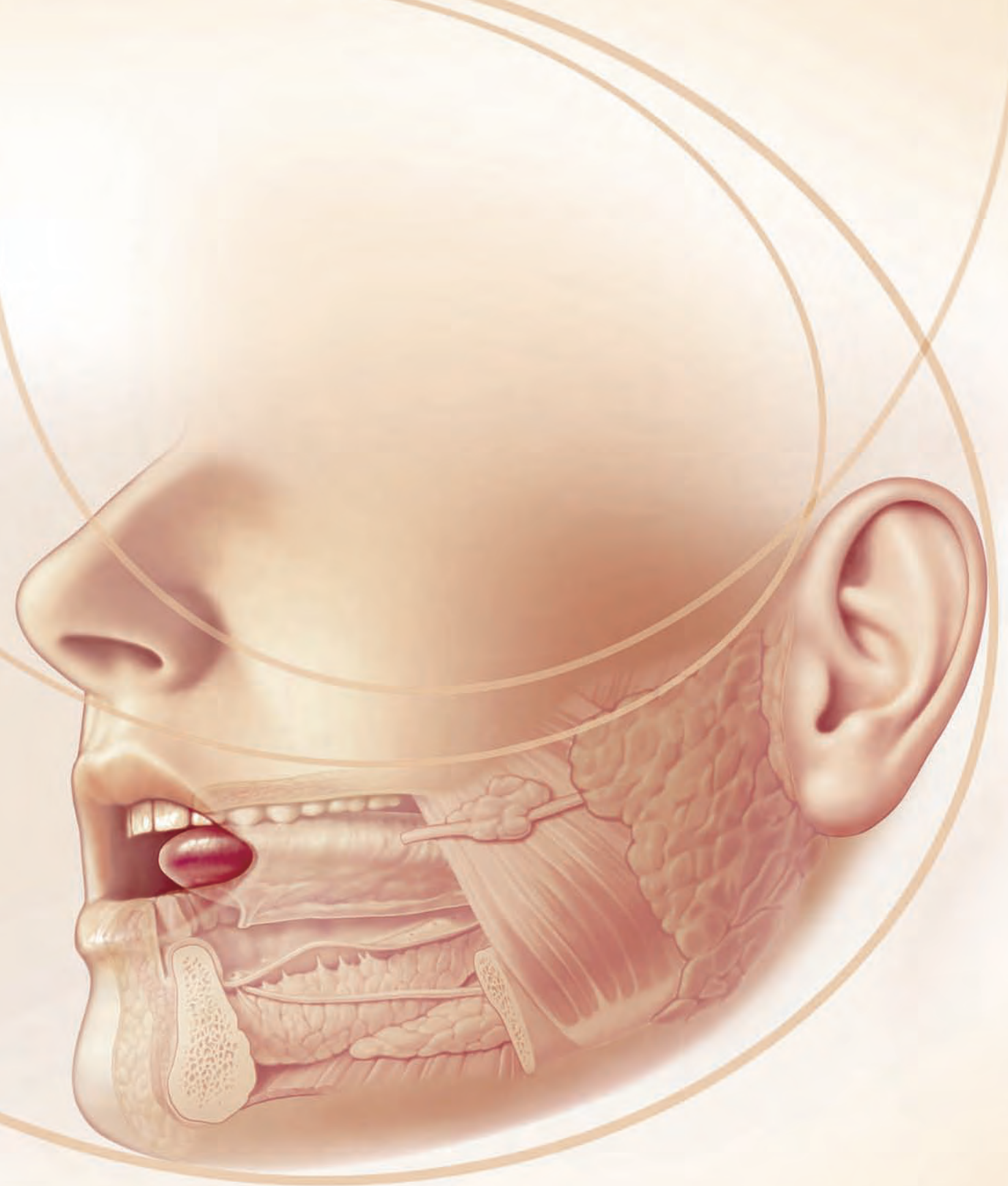
15006 D

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





**HOSPITAL SUPPLIES**







**SCALPELS, MOUTH MIRRORS**

**PROBES, SUCTION TUBES, COTTON APPLICATORS**

**SCISSORS, FORCEPS**

**ARTERY FORCEPS, NEEDLE HOLDERS**

**RASPATORIES, ELEVATORS, CURETTES**

**RETRACTORS**

**MOUTH GAGS**

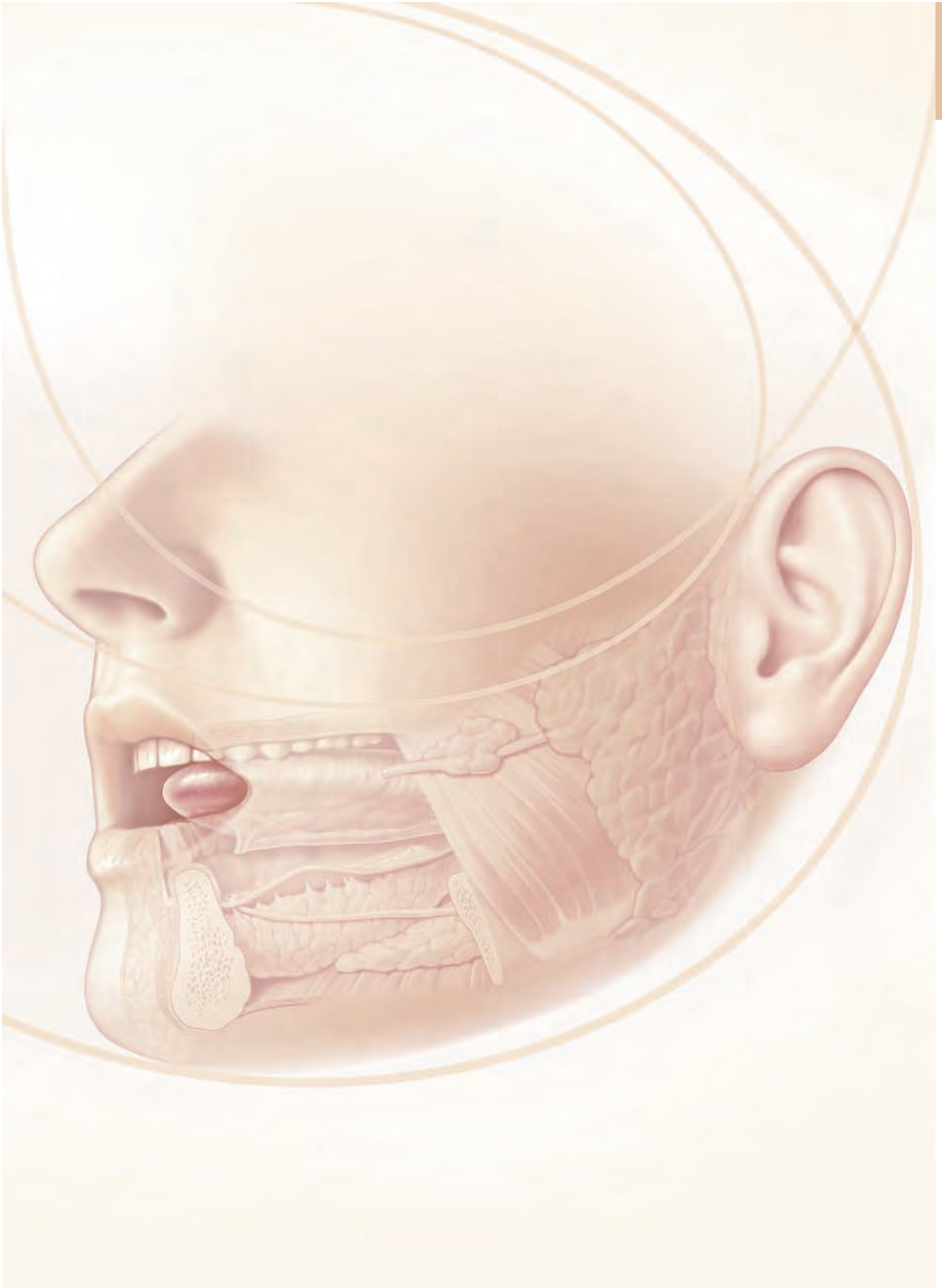
**OSTEOTOMES, CHISELS, MALLETS**

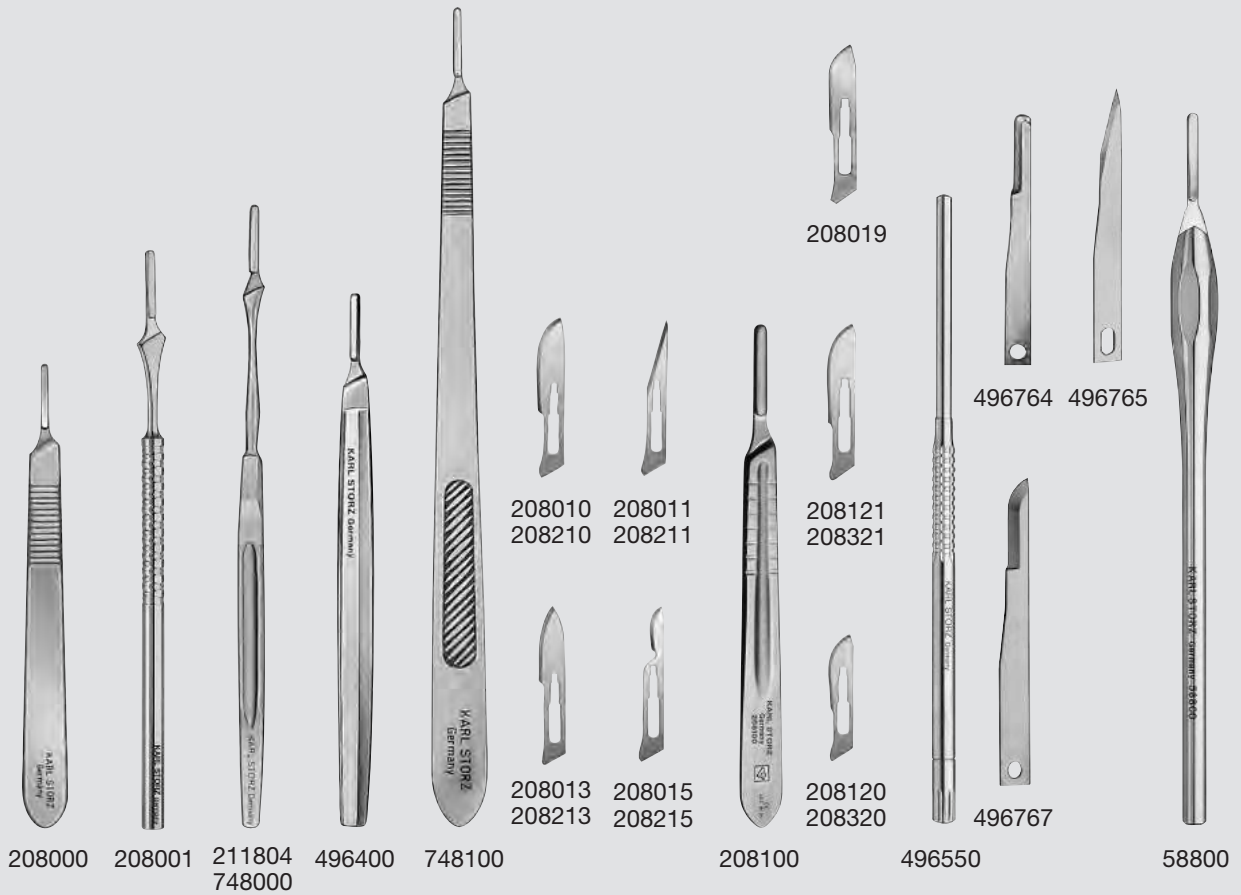
**REPOSITION FORCEPS, BONE HOLDING FORCEPS,  
RONGEURS, BONE LEVERS**

**HOSPITAL SUPPLIES**



## Scalpels, Mouth Mirrors





208000	<b>Surgical Handle</b> , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15	208100	<b>Surgical Handle</b> , Fig. 4, length 13.5 cm, for Blades 208120 – 21, 208320 – 21, 208019
208001	<b>Round Surgical Handle</b> , Fig. 3, length 15 cm, for Blades 208010 – 15, 208210 – 15	208120	<b>Blade</b> , for Handle 208100, Fig. 20, non-sterile, package of 100
211804	<b>FISCH Dual Purpose Scalpel Handle</b> , elevator on one side, scalpel handle no. 7 on the other side, length 16 cm	208121	<b>Same</b> , Fig. 21
496400	<b>MASING Surgical Handle</b> , length 14 cm, for Blades 208010 – 15, 208210 – 15	208019	<b>Blade</b> , Fig. 19, sterile, package of 100
748000	<b>Surgical Handle</b> , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15	208320	<b>Blade</b> , for Handle 208100, Fig. 20, sterile, package of 100
748100	<b>Surgical Handle</b> , Fig. 3L, length 21 cm, for Blades 208010 – 15, 208210 – 15	208321	<b>Same</b> , Fig. 21
208010	<b>Blade</b> , Fig. 10, non-sterile, package of 100	496550	<b>Surgical Handle</b> , for miniature blades, round, length 16.5 cm, for Blades 496764 – 65
208011	<b>Same</b> , Fig. 11	496764	<b>Miniature Blade</b> , Fig. 64, round, sterile, package of 24
208013	<b>Same</b> , Fig. 13	496765	<b>Same</b> , Fig. 65, pointed
208015	<b>Same</b> , Fig. 15	496767	<b>Same</b> , Fig. 67, concentrated
208210	<b>Blade</b> , Fig. 10, sterile, package of 100	<b>NEW</b> 58800	<b>Surgical Handle</b> , straight, length 14 cm, for Blades 208010 – 15, 208210 – 15
208211	<b>Same</b> , Fig. 11	<b>NEW</b> 58801	<b>Same</b> , angled
208213	<b>Same</b> , Fig. 13		
208215	<b>Same</b> , Fig. 15		

## Mouth Mirrors

Mouth 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



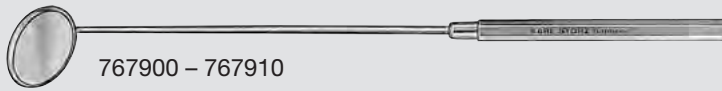
size 10  
diameter 30 mm

# Mouth Mirrors

with RHODIUM Coating

## Special Features:

- Autoclavable
- Resistant
- Durable



767900 – 767910

**Mouth Mirrors, with RHODIUM coating, autoclavable, with unscrewable hexagonal handle, size 0 – 10**

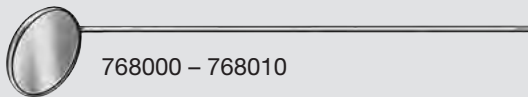
767911 **Mouth Mirrors, with RHODIUM coating, autoclavable, with unscrewable hexagonal handle, set of 11 mirrors, nos. 767900 – 767910, sizes 0 – 10**

- 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

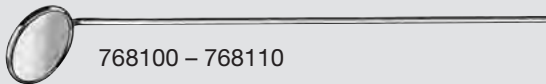
769950 **Handle, only, hexagonal, length 7.5 cm, for Mouth Mirrors 767900 – 767910, 770000 – 770020**



768000 – 768010

**Mouth Mirrors, with RHODIUM coating, autoclavable, mirror only, stem with thread, for use with hexagonal Handles 767900 – 767910 and 769950**

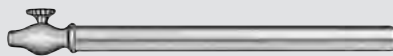
- 768000 size 0
- 768001 size 1
- 768002 size 2
- 768003 size 3
- 768004 size 4
- 768005 size 5
- 768006 size 6
- 768007 size 7
- 768008 size 8
- 768009 size 9
- 768010 size 10



768100 – 768110

**Mouth Mirrors, with RHODIUM coating, autoclavable, without handle, stem without thread, sizes 0 – 10, 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 Mouth Mirrors 768100 – 768110, 770100 – 770120**



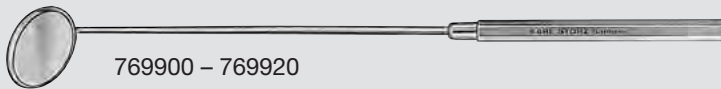
770600

770600 **Same, with central screw connection, length 11.5 cm**

To view actual size of mouth mirrors see page 149

# Mouth Mirrors

Standard Version



769900 – 769920

**Mouth Mirrors**, with unscrewable hexagonal handle, sizes 00 – 10

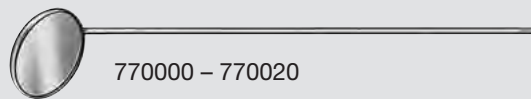
769921 **Mouth Mirrors**, with unscrewable hexagonal handle, set of 12 mirrors, nos. 769900 – 769920, sizes 00 – 10

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 size 7  
769908 size 8  
769909 size 9  
769910 size 10



769950

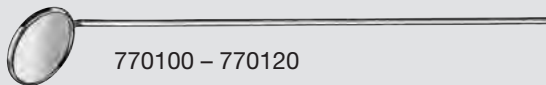
769950 **Handle**, only, hexagonal, length 7.5 cm, for Mouth Mirrors 767900 – 767910, 770000 – 770020



770000 – 770020

**Mouth Mirrors**, mirror only, stem with thread, sizes 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

**Mouth Mirrors**, without handle, stem without thread, sizes 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



58950 ES

58950 G

58950 ES **Mouth Mirror**, non-magnifying, diameter 22 mm, for use with 58950 G

58950 G **Handle for Mouth Mirrors**, length 12.5 cm, for use with 58950 ES



58950 MS

58950 GR

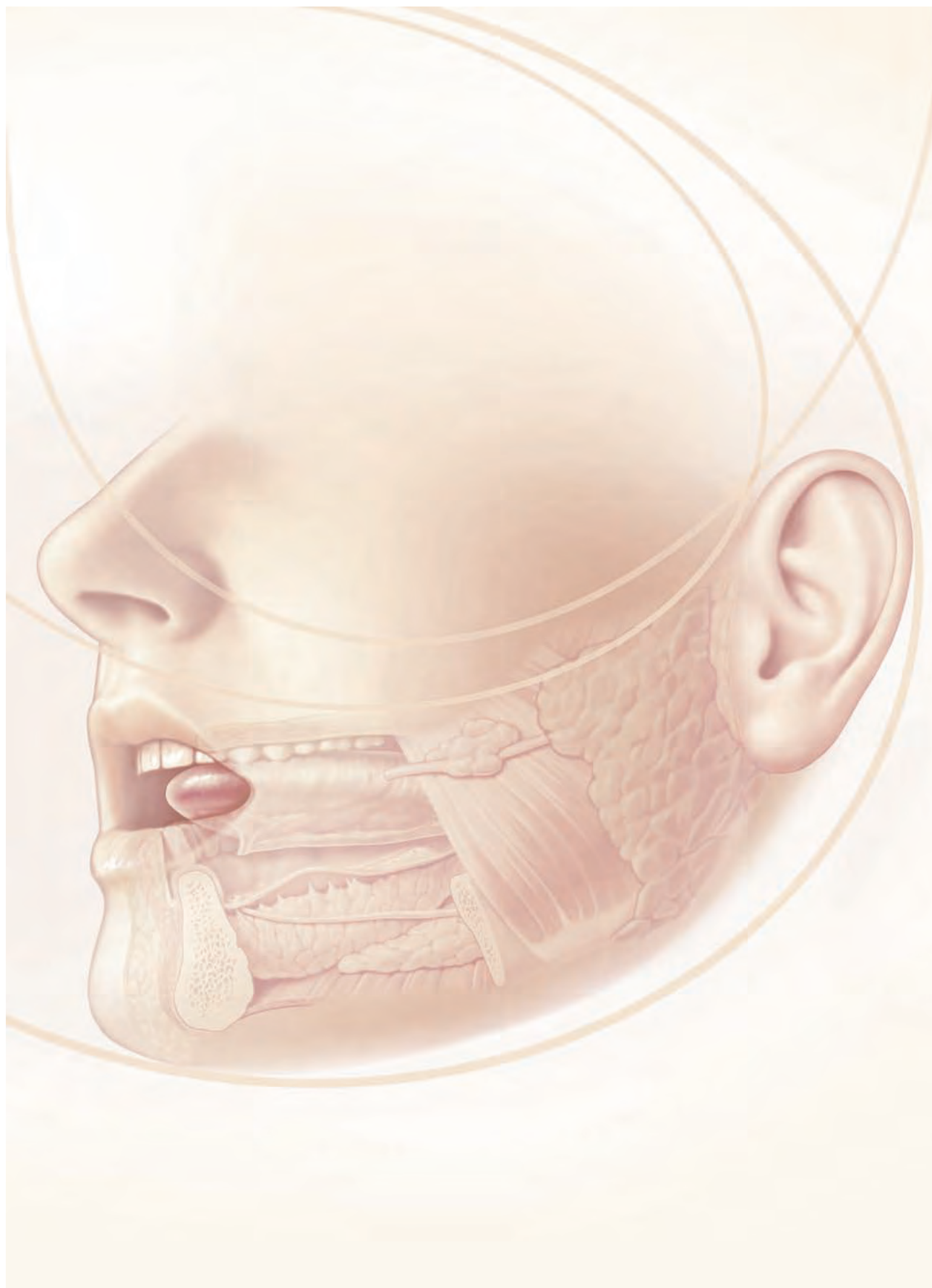
**NEW** 58950 MS **Mouth Mirror**, without magnification, diameter 22 mm, for use with Handle 58950 GR

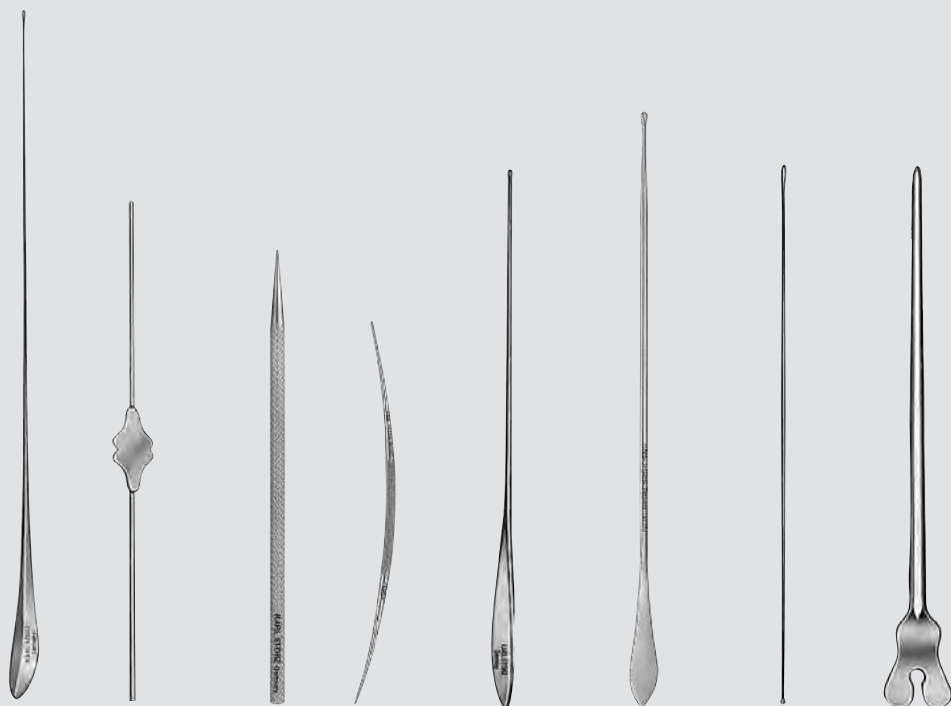
**NEW** 58950 GR **Handle**, single-ended, stainless steel, with thread M 2.5, for exchangeable probe tips and mouth mirrors

To view actual size of mouth mirrors see page 149





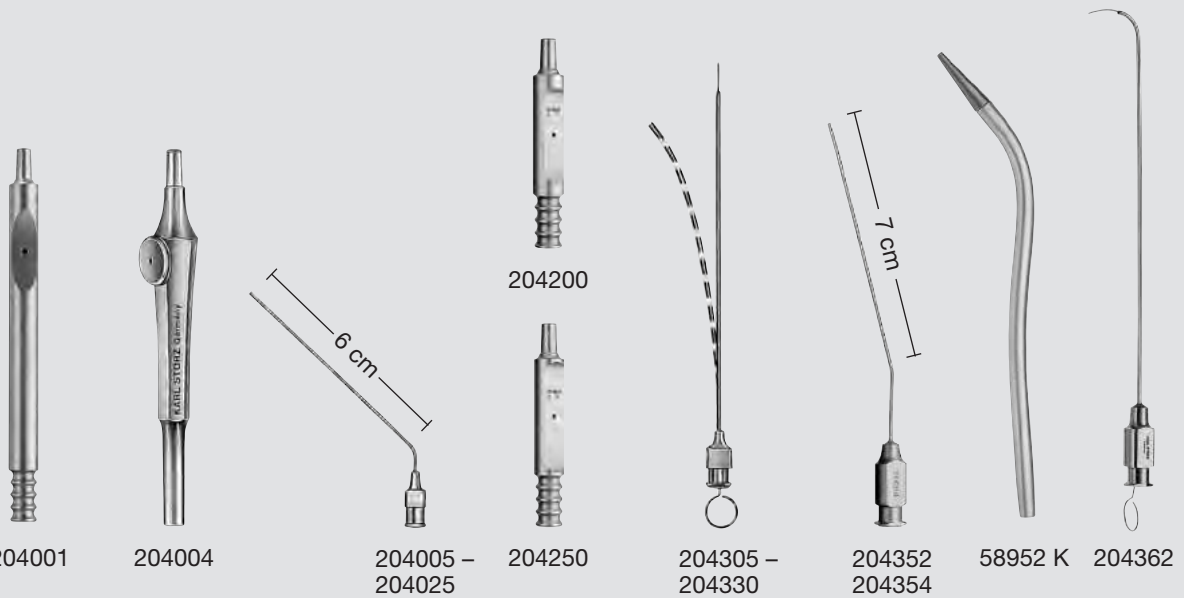




745700    745830 – 745804    745900    745950    797114    797116    797214    797314

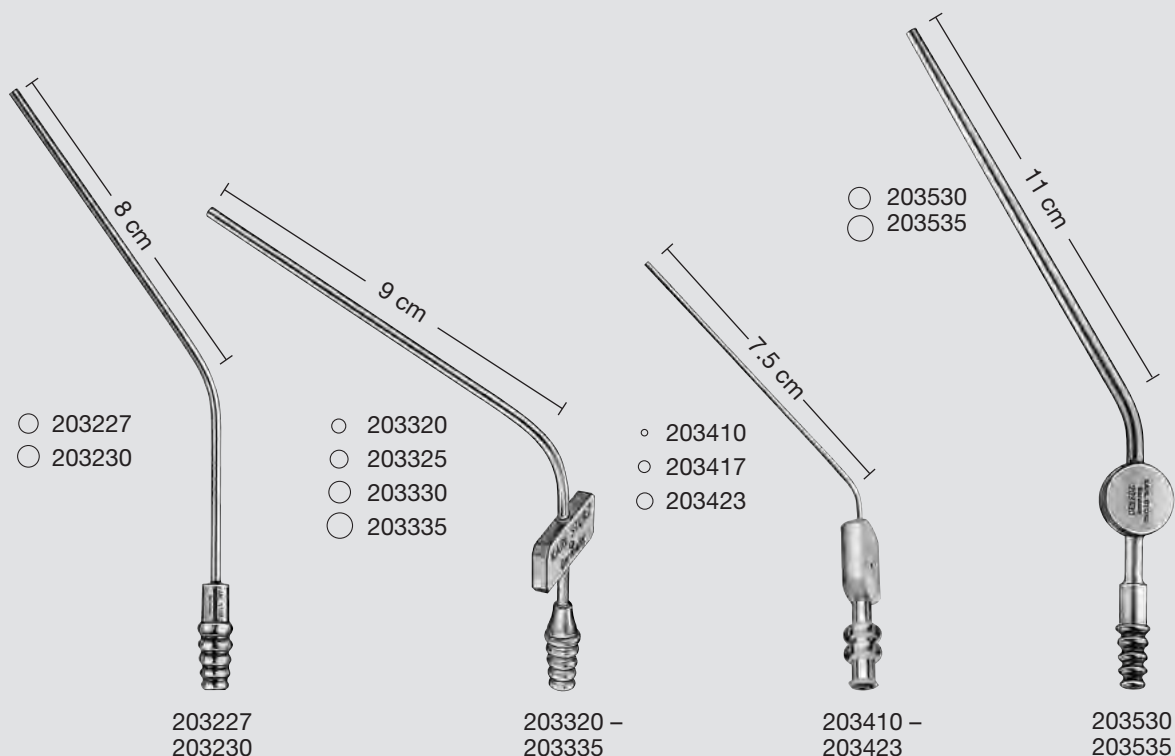
- 745700    **SEIFFERT Probe, for salivary duct**, silver, extra delicate, diameter 0.5 mm, length 18 cm
- 745830    **BOWMAN Probe, for salivary duct**, size 0000 – 000, diameter 0.5 and 0.6 mm, length 13 cm
- 745800    **Same**, size 00 – 0, diameter 0.7 and 0.8 mm
- 745802    **Same**, size 1 – 2, 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
- 745950    **ZIEGLER Needle Probe**, double-ended, length 10.5 cm
- 797114    **Myrtle Leaf Probe**, diameter 1.5 mm, length 14.5 cm
- 797116    **Myrtle Leaf Probe**, diameter 2 mm, length 16 cm
- 797214    **Bulbous Probe**, diameter 1.5 mm, length 14.5 cm
- 797314    **Grooved Director**, length 14.5 cm

## Suction Tubes



204001	<b>Suction Handle</b> , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204305	<b>Suction Tube</b> , straight, LUER-Lock, malleable, outer diameter 0.5 mm, length 10 cm
204004	<b>WULLSTEIN Suction Handle</b> , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204307	<b>Same</b> , outer diameter 0.7 mm
204005	<b>Suction Tube</b> , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm	204310	<b>Same</b> , outer diameter 1 mm
204007	<b>Same</b> , outer diameter 0.7 mm	204313	<b>Same</b> , outer diameter 1.3 mm
204008	<b>Same</b> , outer diameter 0.8 mm	204315	<b>Same</b> , outer diameter 1.5 mm
204010	<b>Same</b> , outer diameter 1 mm	204320	<b>Same</b> , outer diameter 2 mm
204013	<b>Same</b> , outer diameter 1.3 mm	204325	<b>Same</b> , outer diameter 2.5 mm
204015	<b>Same</b> , outer diameter 1.5 mm	204330	<b>Same</b> , outer diameter 3 mm
204020	<b>Same</b> , outer diameter 2 mm	204352	<b>Suction Tube</b> , angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm, for use with Handle 204250
204025	<b>Same</b> , outer diameter 2.5 mm	204354	<b>Same</b> , outer diameter 1 mm
204200	<b>FISCH Adaptor</b> , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	<b>NEW</b> 58952 K	<b>Suction Tube</b> , curved, with titanium tips, slotted, inner diameter 1.5 mm, length 18 cm
204250	<b>FISCH Suction Handle</b> , 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	<b>NEW</b> 58952 G	<b>Same</b> , inner diameter 3 mm
		<b>NEW</b> 204360	<b>Suction Tube</b> , curved 6 mm, LUER-Lock, outer diameter 0.8 mm, length 10 cm
		<b>NEW</b> 204361	<b>Irrigation Cannula</b> , curved 6 mm, LUER-Lock, outer diameter 1 mm, length 10 cm
		<b>NEW</b> 204362	<b>Suction Tube</b> , curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 10 cm
		<b>NEW</b> 204365	<b>Same</b> , curved 8 mm
		<b>NEW</b> 204366	<b>Same</b> , curved 8 mm, outer diameter 1.6 mm

# Suction Tubes



○ 203227	203227	<b>Suction Tube</b> , angular, cylindrical, LUER, outer diameter 2.7 mm, working length 8 cm
○ 203230	203230	<b>Same</b> , outer diameter 3 mm
○ 203320	203320	<b>Suction Tube</b> , angular, with grip plate and cut-off hole, LUER, outer diameter 2 mm, working length 9 cm
○ 203325	203325	<b>Same</b> , outer diameter 2.5 mm
○ 203330	203330	<b>Same</b> , outer diameter 3 mm
○ 203335	203335	<b>Same</b> , outer diameter 3.5 mm
○ 203410	203410	<b>BARON Suction Tube</b> , angular, with grip plate, cut-off hole and stylet, LUER-Lock, outer diameter 1 mm, working length 7.5 cm
○ 203417	203417	<b>Same</b> , outer diameter 1.7 mm
○ 203423	203423	<b>Same</b> , outer diameter 2.3 mm
○ 203530	203530	<b>Suction Tube</b> , angular, conical, LUER, with grip plate, outer diameter 3 mm, working length 11 cm
○ 203535	203535	<b>Same</b> , outer diameter 3.5 mm
○ 203615	203615	<b>BARNES Suction Tube</b> , with cut-off hole, LUER-Lock, outer diameter 1.5 mm, working length 5 cm
○ 203617	203617	<b>Same</b> , outer diameter 1.7 mm
○ 203620	203620	<b>Same</b> , outer diameter 2 mm
○ 203725 K	203725 K	<b>Suction Tube</b> , cylindrical, LUER, outer diameter 2.5 mm, working length 7 cm

## Suction Tubes

○ 203930  
○ 203940

○ 203845 (13 cm)  
○ 203830 (11 cm)  
○ 203835 (11 cm)

○ 203705 (9 cm)  
○ 203707 (9 cm)  
○ 203710 (9 cm)  
○ 203715 (9 cm)

○ 203720 (9 cm)

○ 203725 K (7 cm)

○ 203725 (11 cm)  
○ 203730 (11 cm)  
○ 203740 (11 cm)  
○ 203750 (11 cm)

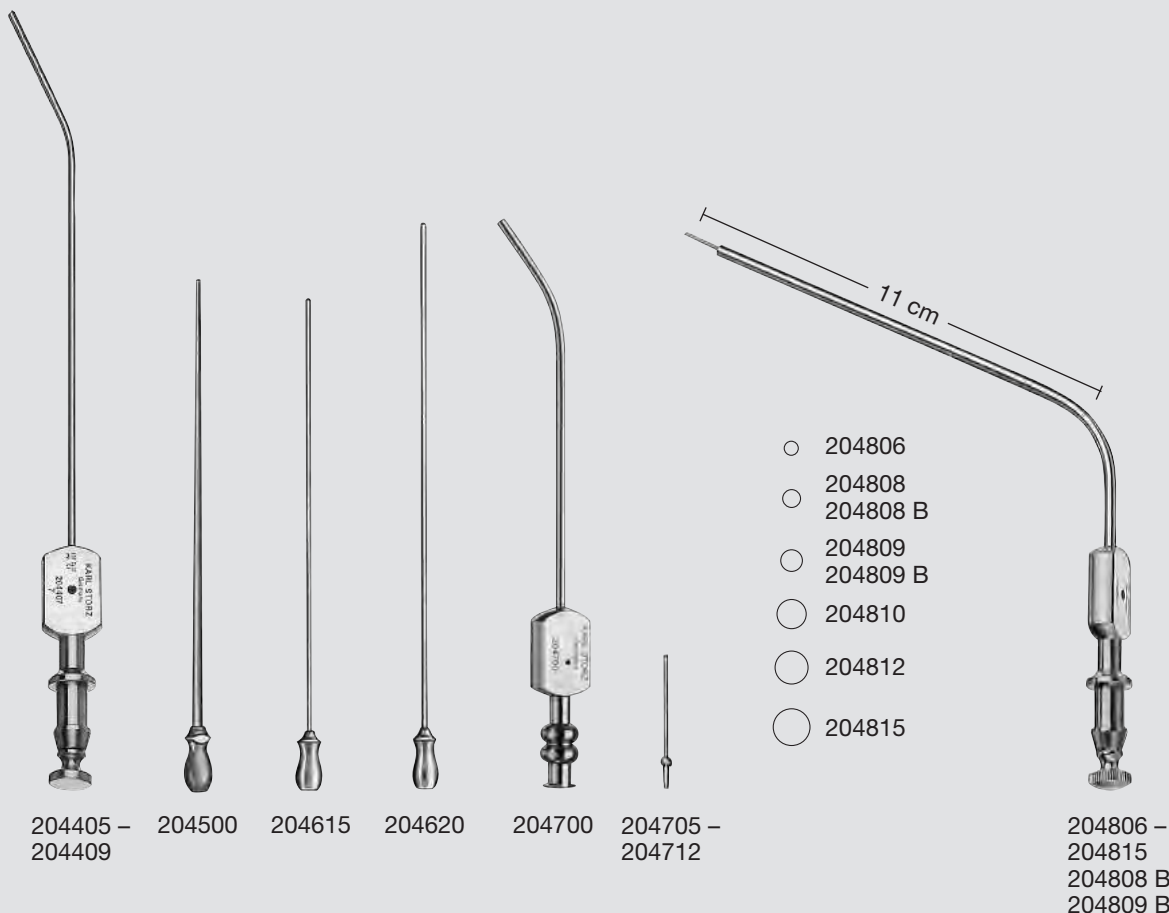
203705 – 203715  
203720  
203725 K  
203725 – 203750

203830  
203835  
203845  
203930  
203940  
203945  
203960

203705  
203707  
203710  
203715  
203720  
203725 K  
203725  
203730  
203740  
203750  
203830  
203835  
203845  
203930  
203940  
203945  
203960

**Suction Tube**, cylindrical, LUER, outer diameter 0.5 mm, working length 9 cm  
**Same**, outer diameter 0.7 mm  
**Same**, outer diameter 1 mm  
**Same**, outer diameter 1.5 mm  
**Same**, outer diameter 2 mm  
**Suction Tube**, cylindrical, LUER, outer diameter 2.5 mm, working length 7 cm  
**Same**, working length 11 cm  
**Suction Tube**, cylindrical, LUER, outer diameter 3 mm, working length 11 cm  
**Same**, outer diameter 4 mm  
**Same**, outer diameter 5 mm  
**Suction Tube**, conical, LUER, outer diameter 3 mm, working length 11 cm  
**Same**, outer diameter 3.5 mm  
**Suction Tube**, conical, LUER, outer diameter 4.5 mm, working length 13 cm  
**Suction Tube**, malleable, LUER, outer diameter 3 mm, length 22.5 cm  
**Suction Tube**, straight, cylindrical, outer diameter 4 mm, length 22.5 cm  
**Suction Tube**, curved, conical, outer diameter 4.5 mm, length 20 cm  
**Suction Tube**, curved, with olive, outer diameter 6 mm, length 19 cm

# Suction and Irrigation Tubes



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.

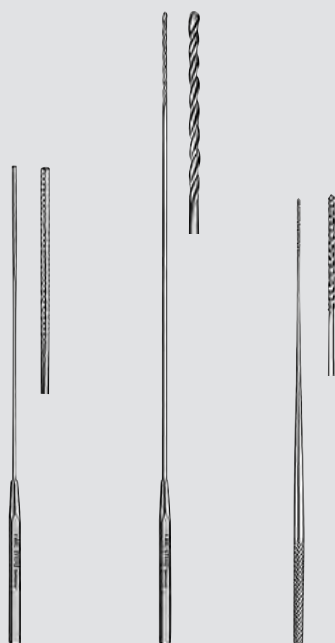
204812 **Same**, 12 Fr.

204815 **Same**, 15 Fr.

204808 B FERGUSON **Suction Tube**, malleable, with cut-off hole and stylet, LUER, 8 Fr., working length 11 cm

204809 B **Same**, 9 Fr.

## Cotton Applicators



151007 –  
151013

151213

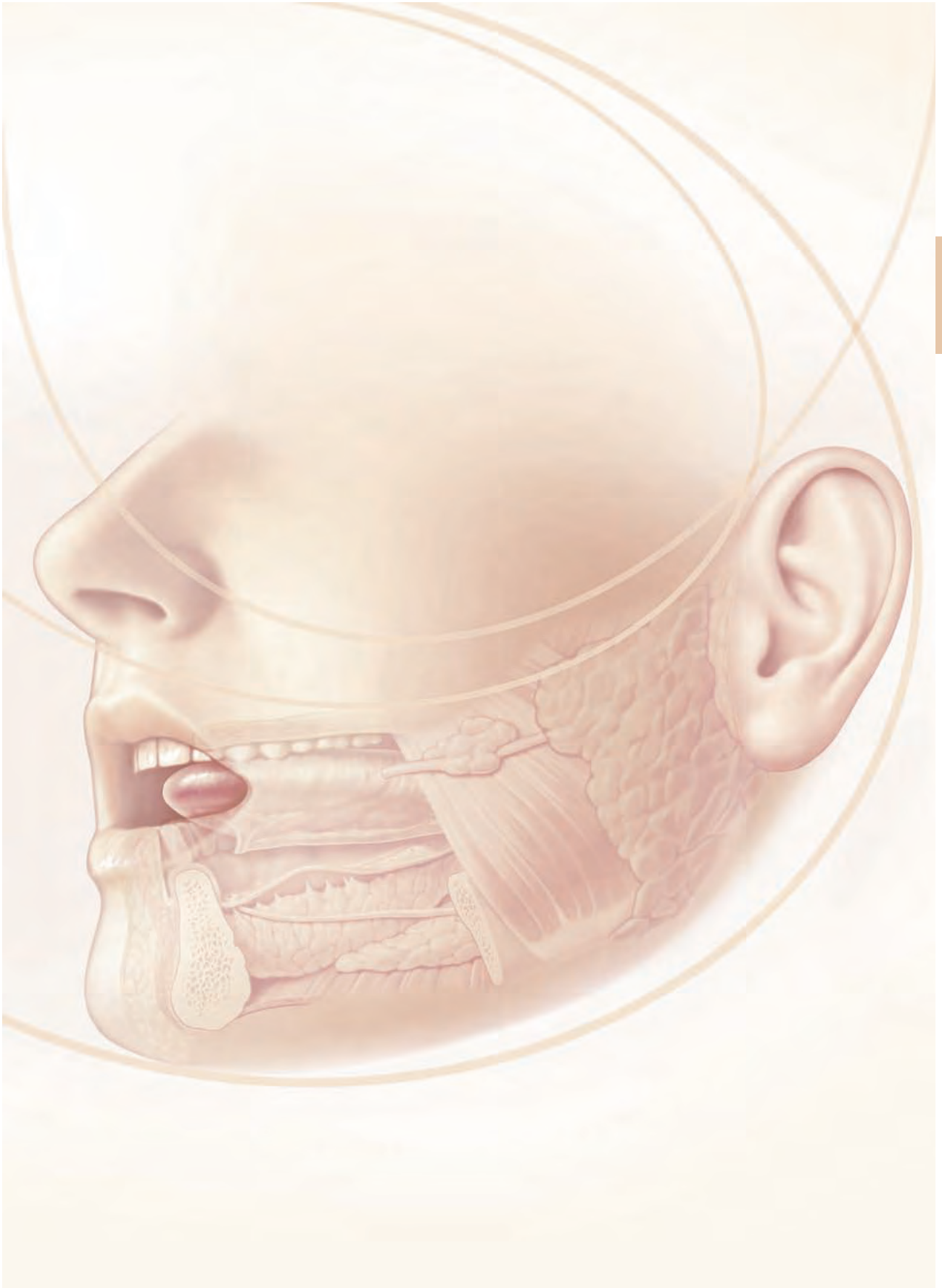
151500

- 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





## Scissors, Forceps





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

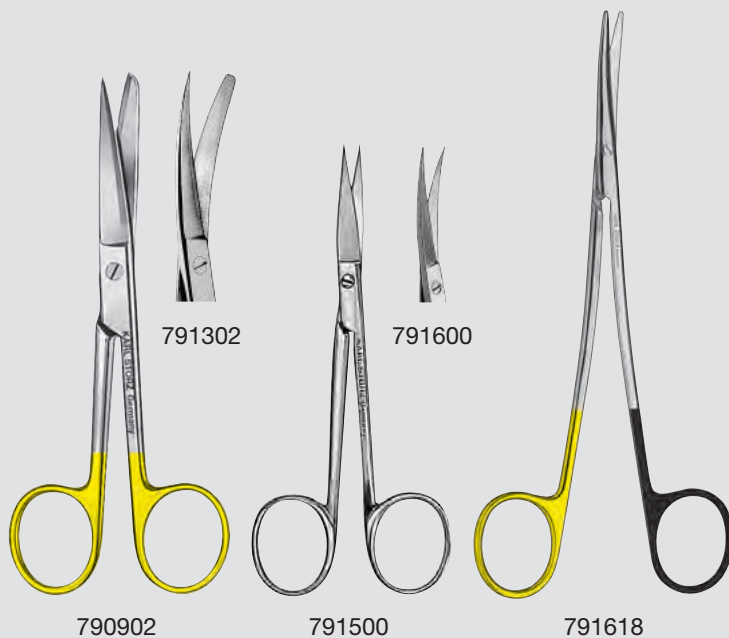
791002  
791202

791003  
791203

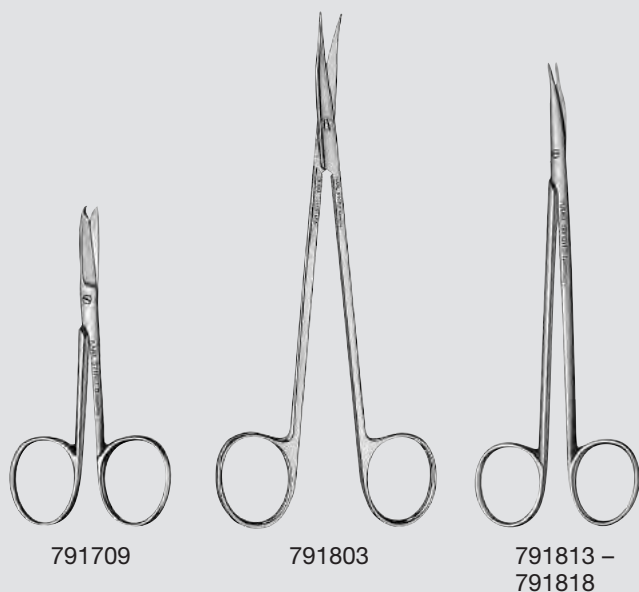
791001 **Scissors**, curved, sharp/sharp, length 13 cm  
791002 **Same**, sharp/blunt  
791003 **Same**, blunt/blunt

791201 **Scissors**, curved, sharp/sharp, length 14.5 cm  
791202 **Same**, sharp/blunt  
791203 **Same**, blunt/blunt

## Scissors



- 790902 **Scissors**, with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
- 791302 **Same**, curved
- 791500 **Scissors**, for suture, straight, sharp/sharp, length 12.5 cm
- 791600 **Same**, curved
- 791618 **Ligature Scissors**, with tungsten carbide blades, 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



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

# 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

# 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

## Scissors



213200



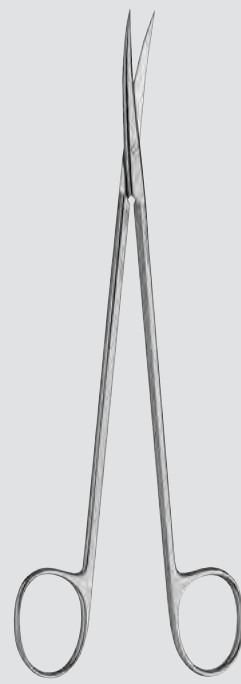
213314



213410



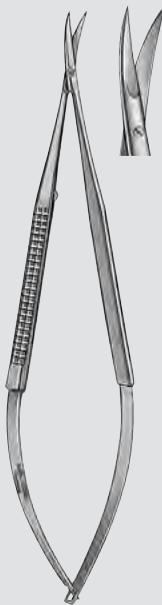
213411



745719

- 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
- 745719     **METZENBAUM Scissors**, for  
sialolithotomy, curved,  
sharp/sharp, length 18 cm

# Scissors, Wire Cutting Scissors, Scissors with spring action

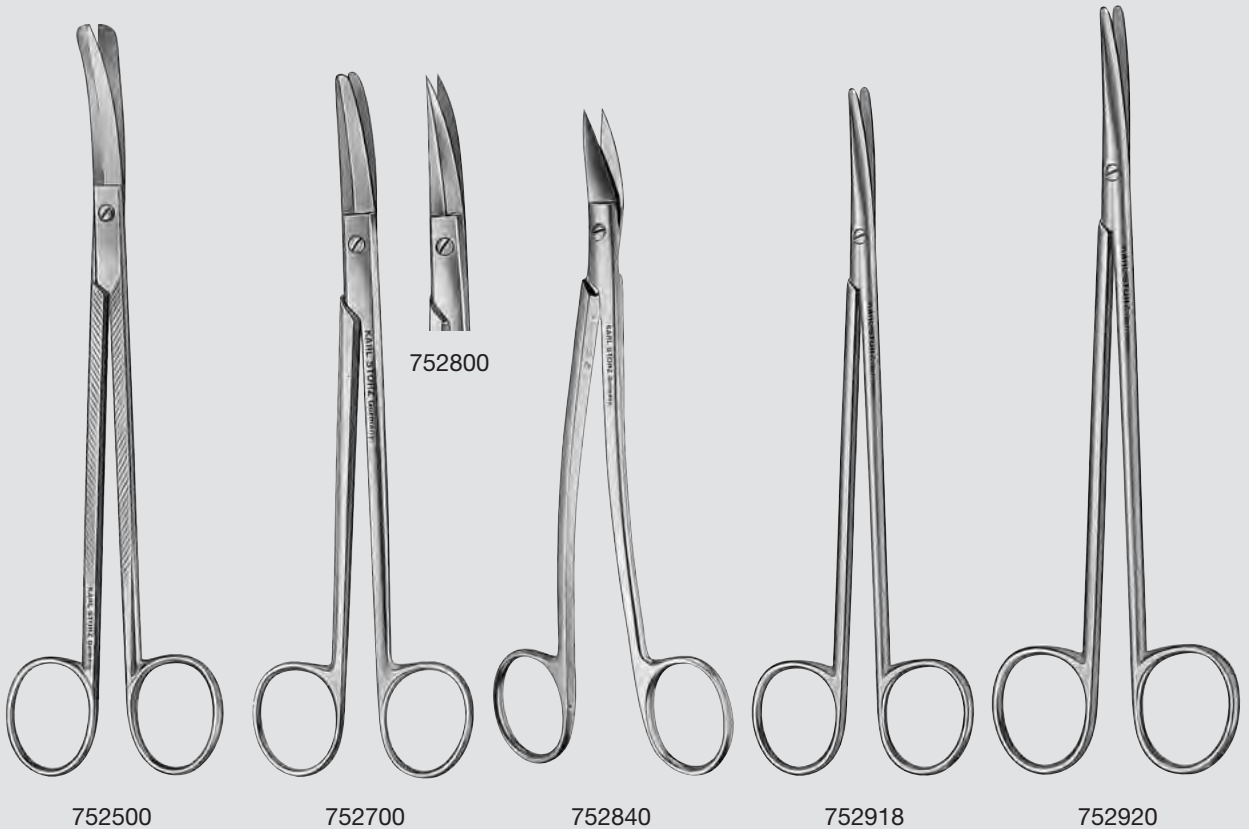


214535

- 58180      **KELLY Scissors**, sharp/sharp, curved, length 15.5 cm
- 58182      **LOCKLIN Gum Scissors**, serrated, length 16 cm
- 227600      **GUILFORD-WRIGHT Wire Cutter**, serrated, length 10 cm
- 754350      **Wire Cutting Scissors**, serrated, length 12.5 cm
- 214535      **Scissors**, spring-action, curved, serrated, length 16 cm

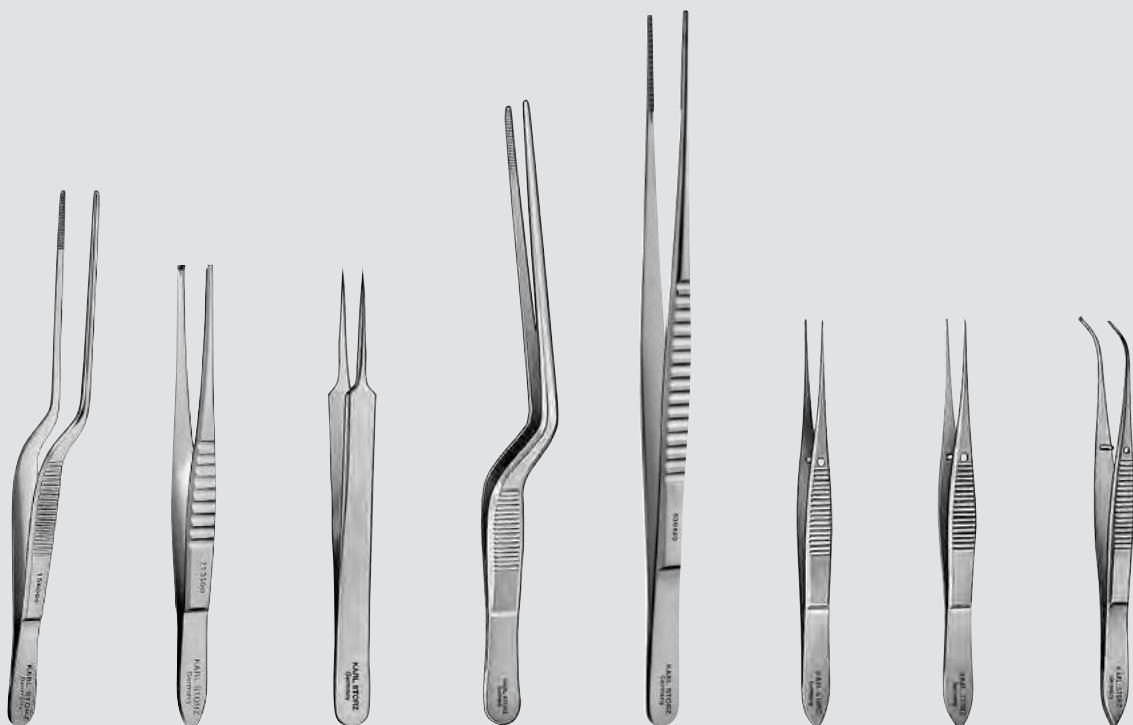


## Scissors



- 752500      **GOOD Scissors**, length 19.5 cm
- 752700      **BOETTCHER Scissors**, length 18.5 cm
- 752800      **Same**, pointed
- 752840      **DEAN Scissors**, angled cutting blades, serrated, pointed, length 17 cm
- 752918      **METZENBAUM Scissors**, curved, length 18 cm
- 752920      **Same**, length 20 cm
- 752923      **Same**, length 23 cm
- 752928      **Same**, length 28 cm
- NEW** 799614      **Micro Scissors**, with round spring handle, straight, serrated cutting edge, length 14 cm
- NEW** 799616      **Same**, length 16 cm
- NEW** 799618      **Same**, length 18 cm
- NEW** 799714      **Micro Scissors**, with round spring handle, curved, serrated cutting edge, length 14 cm
- NEW** 799716      **Same**, length 16 cm
- NEW** 799718      **Same**, length 18 cm





156000

213500

214500

426516

530416  
530420  
530520

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
- 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
- 530910 **Tissue Forceps**, delicate, straight, 1 x 2 teeth, length 10 cm
- 530911 **Same**, curved

## Forceps



213500



214000  
214000 F



214200



214500 F



214501



214503



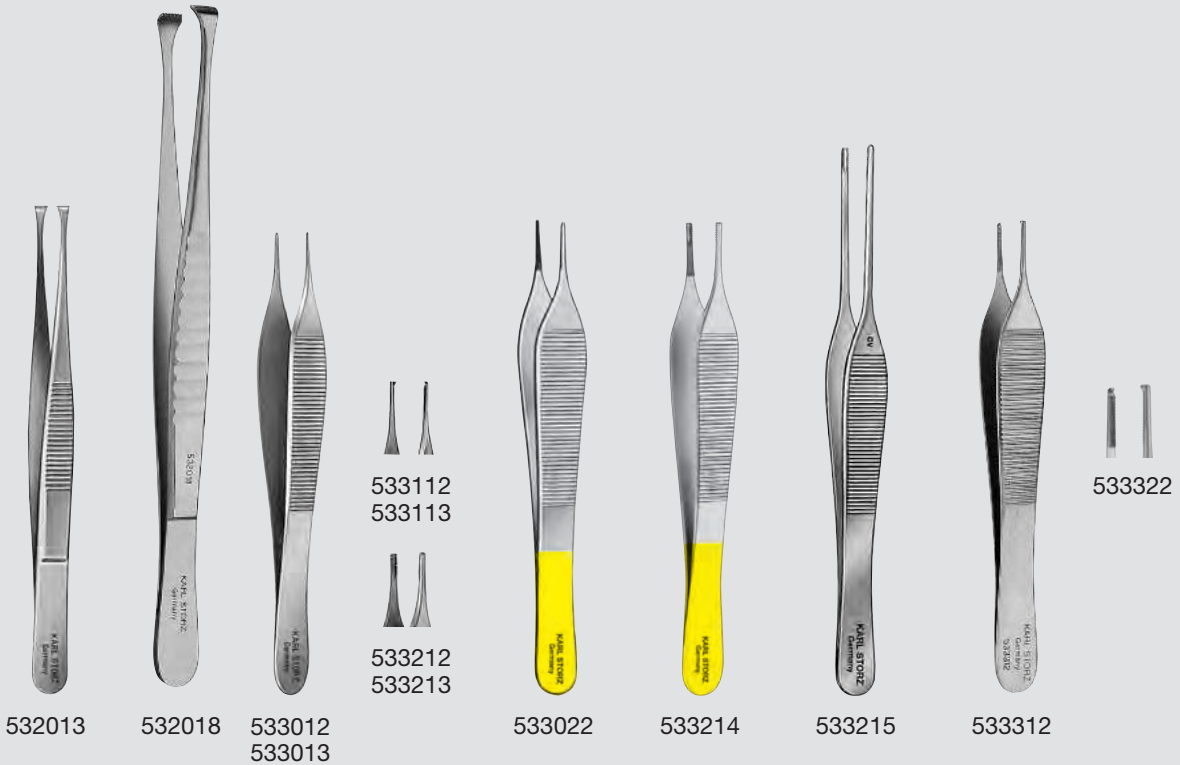
214510



214515



- 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 F **Jeweler Forceps**, fine, pointed, soft spring-action, length 11 cm
- 214501 **Suture Forceps**, curved, smooth, length 11.5 cm
- 214503 **Jeweler 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



- 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

## Forceps



792302  
792402  
792602  
750001

792301  
792401  
792601  
750000



792303  
792403  
792603



792314  
792318



792320



793115  
793117

- 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 width
- 792403 **Same**, narrow width
- 792601 **Dressing Forceps**, standard width, length 16 cm
- 792602 **Same**, medium width
- 792603 **Same**, narrow width
- 750000 **Dressing Forceps**, serrated, width 4 mm, length 20 cm
- 750001 **Same**, width 1.8 mm
- 793115 **Suture Forceps**, short curved, delicate, smooth jaw, length 15 cm
- 793117 **Same**, length 17 cm



793215



793216



793220



793225



793918  
793920



745718

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

793920 **WAUGH Tissue Forceps**, serrated, 1x 2 teeth, width 2.8 mm, length 20 cm

745718 **LONDON-COLLEGE Tooth Tweezers**, serrated, length 15 cm

## Forceps



793301  
793401  
793601  
750112



793302  
793402  
793602  
750111



793303  
793403  
793603



793611



793623  
750123



799914



799814

793301 **Tissue Forceps**, 1 x 2 teeth, standard width, length 13 cm  
 793302 **Same**, medium  
 793303 **Same**, narrow  
 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  
 793611 **Tissue Forceps**, 1 x 2 teeth, width 3 mm, length 16 cm  
 793623 **Tissue Forceps**, 2 x 3 teeth, width 4.2 mm, length 16 cm

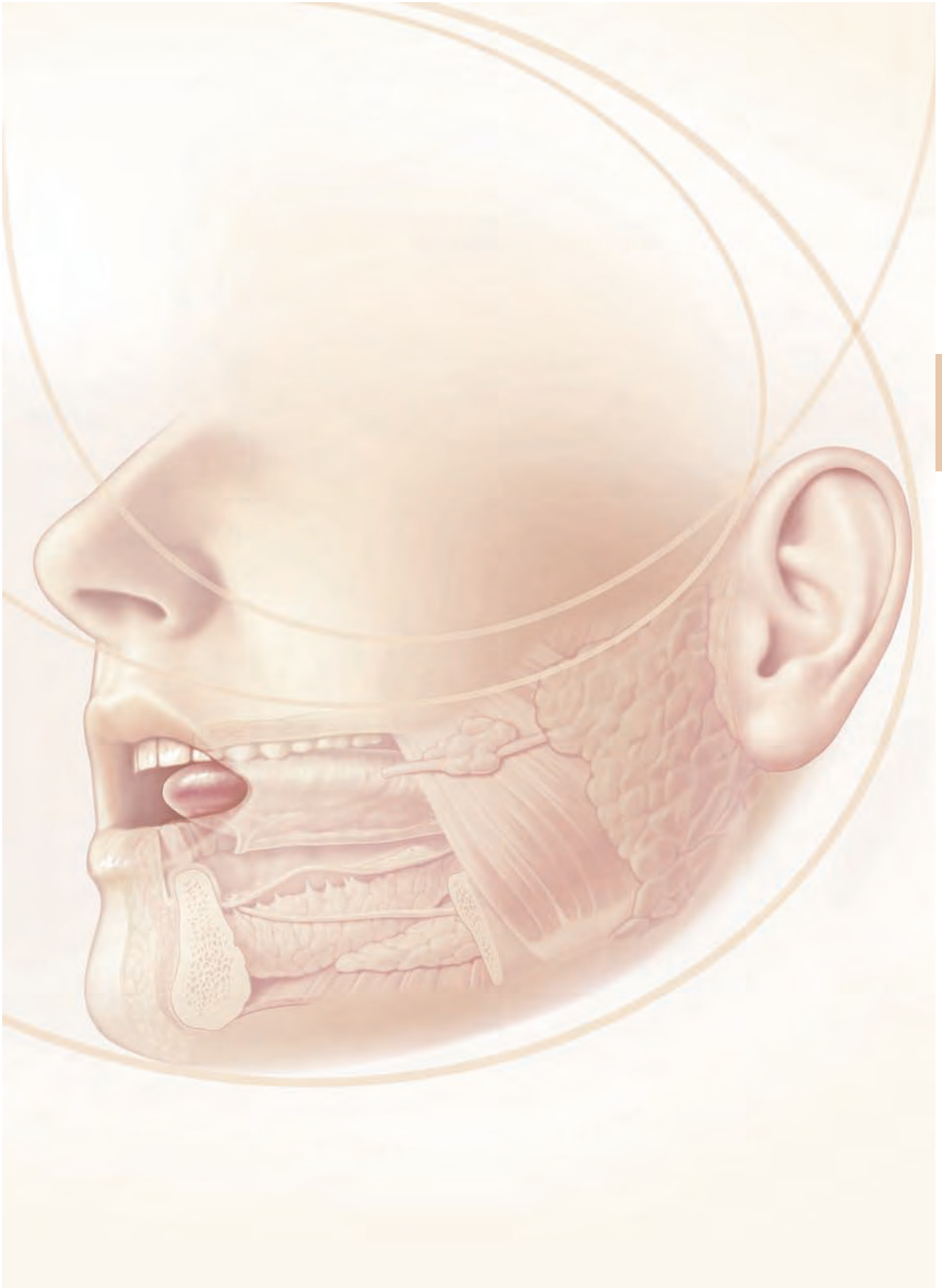
750111 **Tissue Forceps**, 1 x 2 teeth, width 2 mm, length 20 cm  
 750112 **Same**, width 3.5 mm  
 750123 **Tissue Forceps**, 2 x 3 teeth, width 4.5 mm, length 20 cm

**NEW** 799914 **Micro Forceps**, with round spring handle, straight, coated, length 14 cm  
**NEW** 799916 **Same**, length 16 cm  
**NEW** 799918 **Same**, length 18 cm  
**NEW** 799814 **Micro Ring Forceps**, with round spring handle, straight, coated, length 14 cm  
**NEW** 799816 **Same**, length 16 cm  
**NEW** 799818 **Same**, length 18 cm





# Artery Forceps, Needle Holders





789610



789614



794014 –  
794020



794228



794814 –  
794820

794514 –  
794520

- 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
- 794820 **Same**, length 20 cm

## Forceps



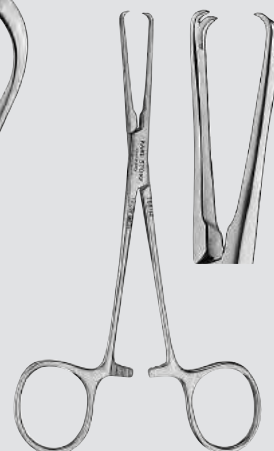
795012



795015



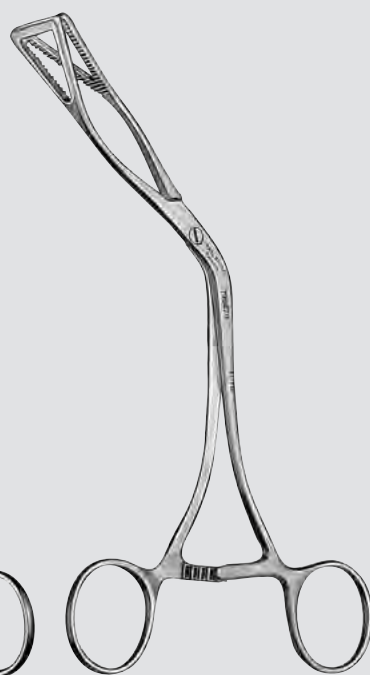
795031



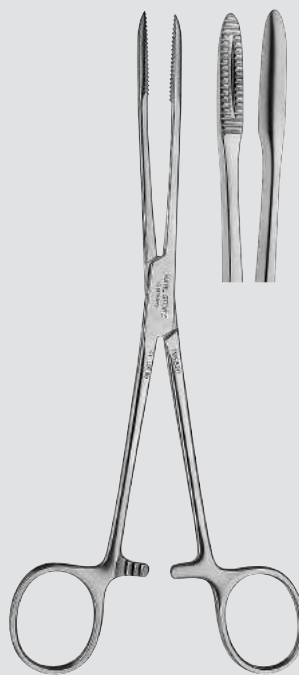
795114



795115



795220



795820  
795826



795890

795012 **BABY-ALLIS Tissue Forceps**,  
4 x 5 teeth, length 14 cm

795015 **ALLIS Forceps**, 4 x 5 teeth,  
length 15 cm

795031 **ULRICH Hook Forceps**, 5 x 6 teeth,  
width of jaws 10 mm, length 15 cm

795114 **Hook Forceps**, BONN model,  
straight, 2 x 2 teeth, length 14 cm,  
for parotis surgery

795115 **BRAUN Hook Forceps**, 4 x 4 teeth,  
length 15.5 cm

795220 **LOVELACE Grasping Forceps**, curved  
to side, serrated surface, with triangular  
jaws, width 28 mm, 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



754920



58149



536224

754920 **OVERHOLT-GEISSENDOERFER Forceps**, curved, serrated, size 0, length 21 cm

58149 **HÖNIG Clamp**, for chin repositioning, curved, length 23 cm

536224 **MIXTER Baby Dissecting and Ligature Forceps**, length 14 cm

## Forceps, Clamps

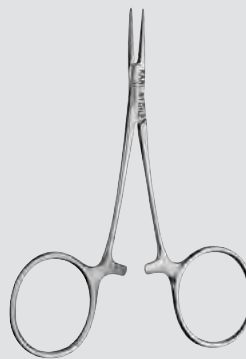


536514

536414



536814  
536816



536909



536914  
536916



537014



537214 537314



537222



539330



539327

536414  
536514

536814  
536816

536909

536914  
536916

537014  
537214  
537314

537222

539320  
539330

539327

**CRILE Artery Forceps**, straight, length 14 cm  
**Same**, curved

**KELLY Artery Forceps**, straight, length 14 cm  
**Same**, length 16 cm

**Dissecting and Ligature Forceps**, straight, smooth jaws, length 9.5 cm

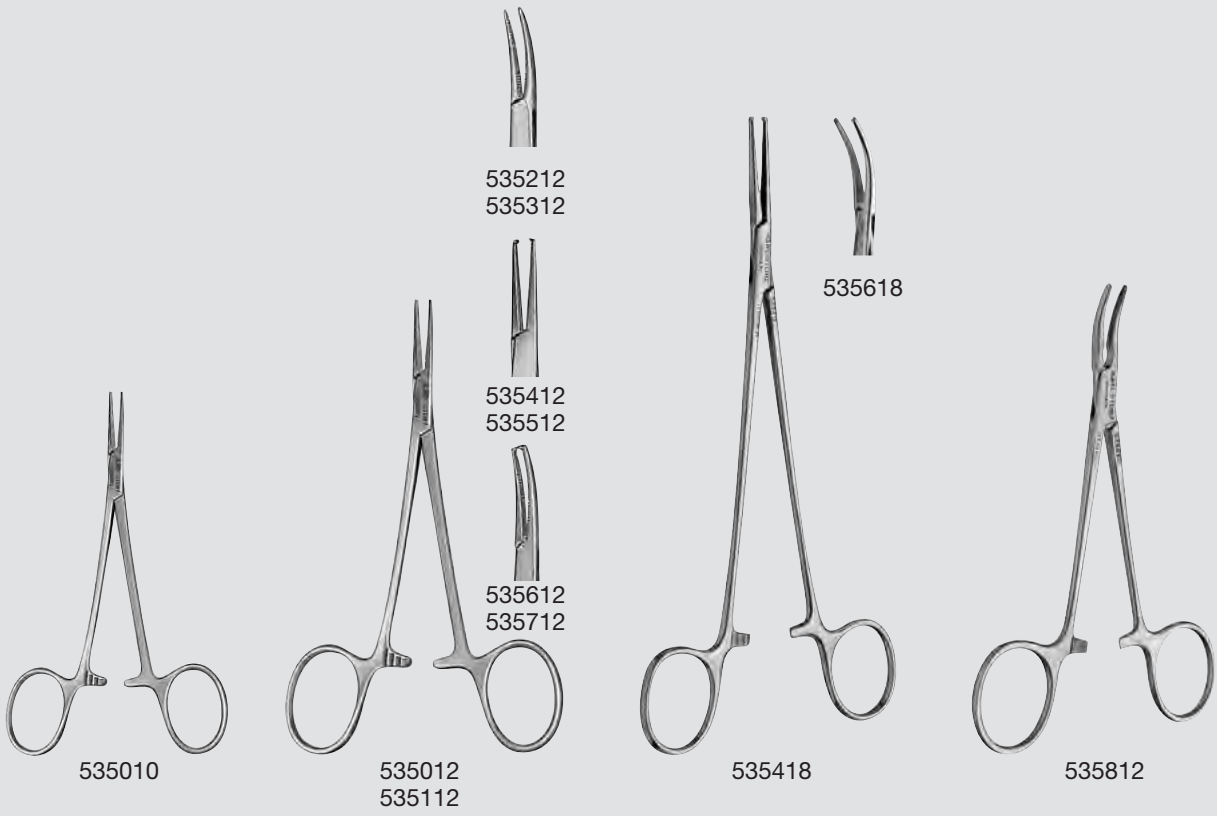
**KELLY Artery Forceps**, curved, length 14 cm  
**Same**, length 16 cm

**Dissecting Forceps**, straight, without ratchet, length 14 cm  
**Same**, slightly curved  
**Same**, strongly curved

**Artery Forceps**, slightly curved, without ratchet, length 22.5 cm

**Bulldog Clamp**, straight, length 4.5 cm  
**Same**, curved

**DIEFFENBACH Bulldog Clamp**, curved, length 4 cm



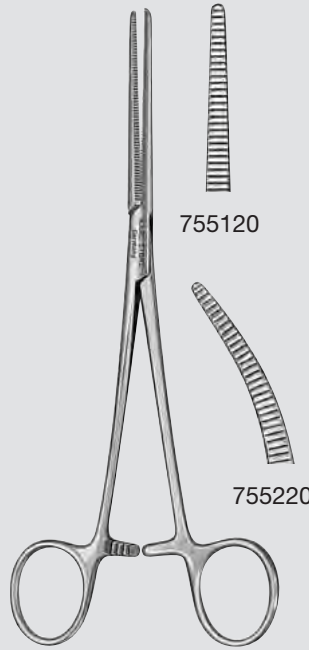
- 535010 **“Mosquito” Forceps**, straight, extra slender, length 10 cm
- 535012 HALSTEAD **“Mosquito” Artery Forceps**, straight, length 12.5 cm
- 535112 **Same**, micro-model
- 535212 HALSTEAD **“Mosquito” Artery Forceps**, curved, length 12.5 cm
- 535312 **Same**, micro-model
- 535412 HALSTEAD **“Mosquito” 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

## Forceps, Clamps



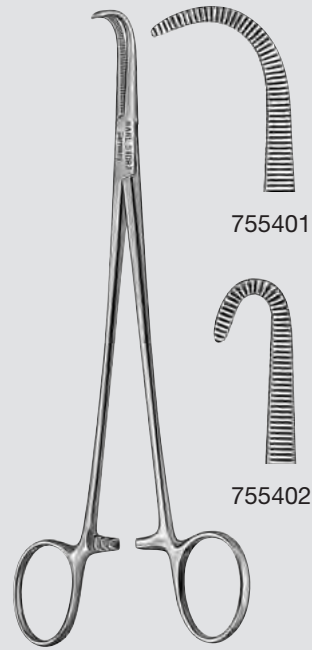
793814



755120

755220

755120



755401

755402

755401



793833

- NEW** 793814 PEAN **Artery Forceps**, straight, length 13 cm
- 755120 HALLE-BIRKETT **Forceps**, slender, straight, length 20 cm
- 755220 **Same**, curved
- 755401 NEGUS **Forceps**, large curve, length 20 cm
- 755402 **Same**, small curve
- NEW** 793833 BABY-KOCHER **Clamp**, atraumatic, curved, length 13 cm

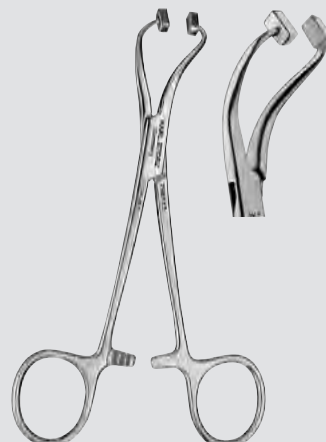
# Towel Forceps



796008 –  
796013



796109



796113



796209



796313



796413



796699

796008 **BACKHAUS Towel Forceps**,  
length 8 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

796313 **RÖDER Towel Forceps**,  
with ball stops, length 13 cm

796413 **EDNA-LORNA Towel Forceps**,  
serrated, non-perforating,  
length 13 cm

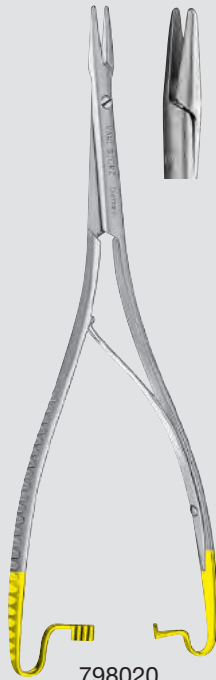
796699 **Safety Pin**, for holding ring  
handle instruments, length 14 cm



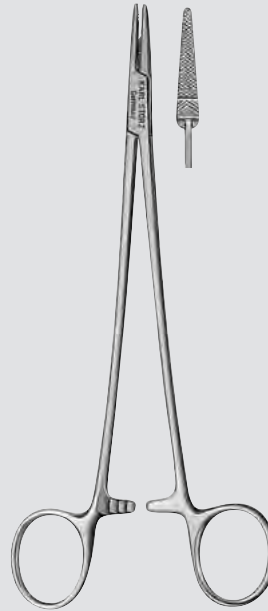
## Needle Holders



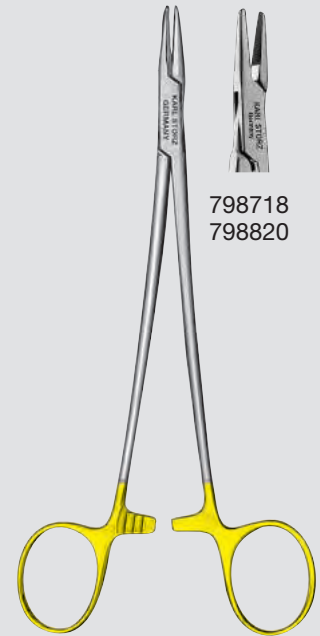
516013  
516015



798020

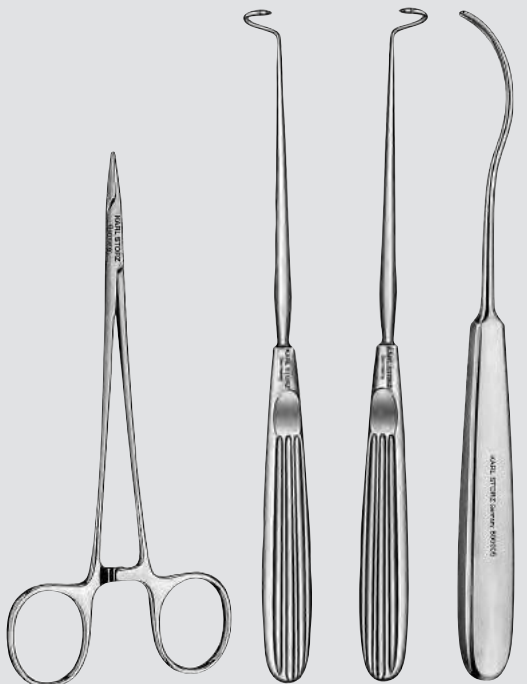


798418



798618

798718  
798820



799016

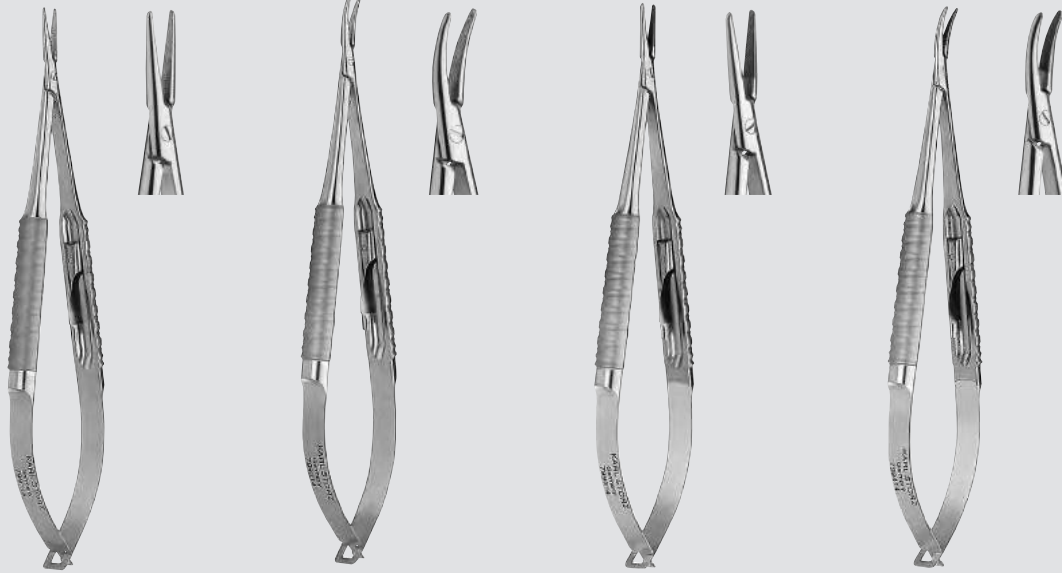
800001

800002

800005

- 516013 **Needle Holder**, tungsten carbide inserts, length 13 cm
- 516015 **Same**, length 15 cm
- 798020 **MATHIEU Needle Holder**, slender, tungsten carbide inserts, length 20 cm
- 798418 **HEGAR Needle Holder**, slender, length 18 cm
- 798618 **Same**, tungsten carbide inserts
- 798718 **HEGAR-MAYO Needle Holder**, robust, tungsten carbide inserts, length 18 cm
- 798820 **HEGAR Needle Holder**, robust, tungsten carbide inserts, 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

# BARRAQUER Micro Needle Holder <sup>NEW</sup>



799114

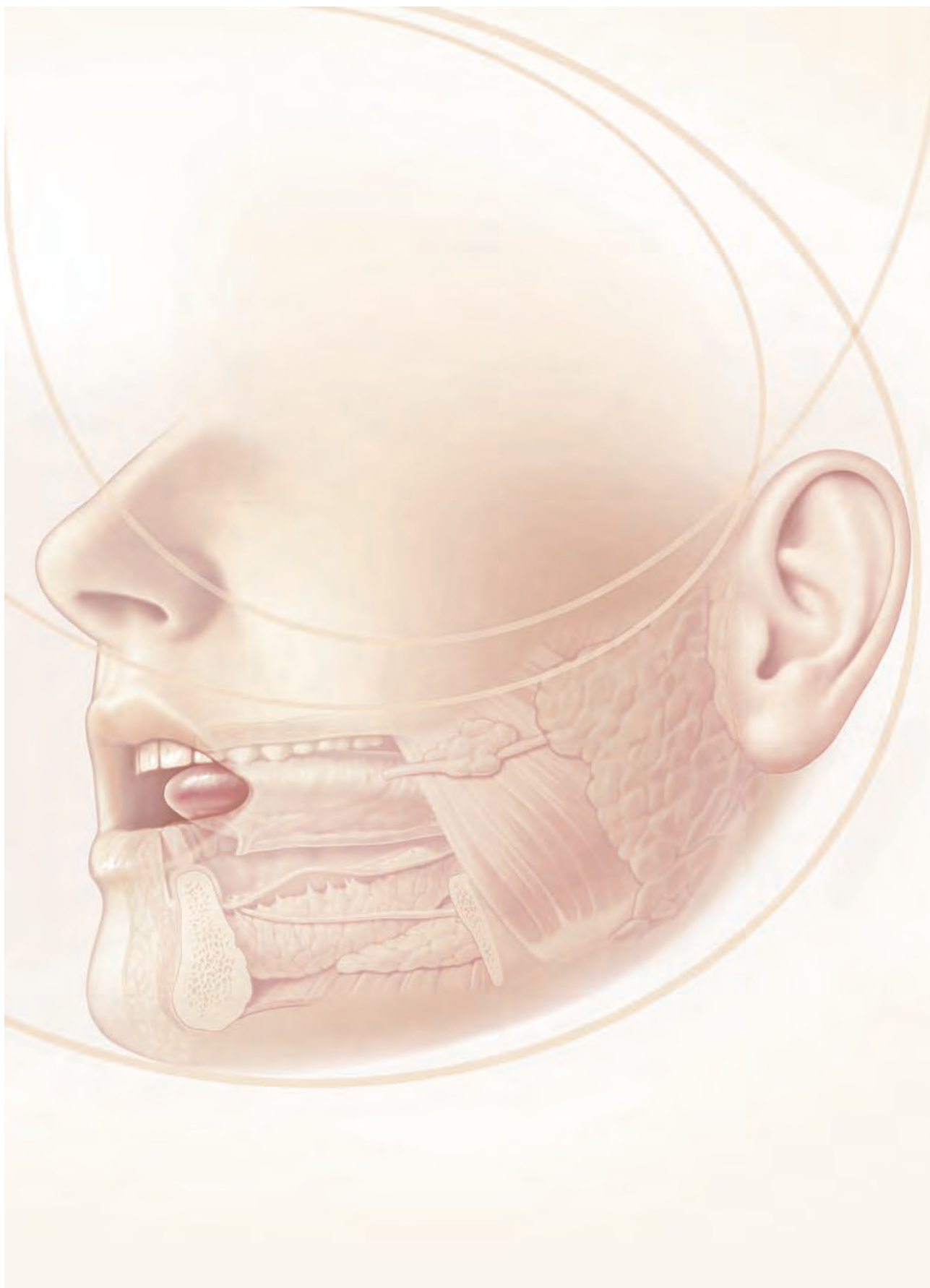
799214

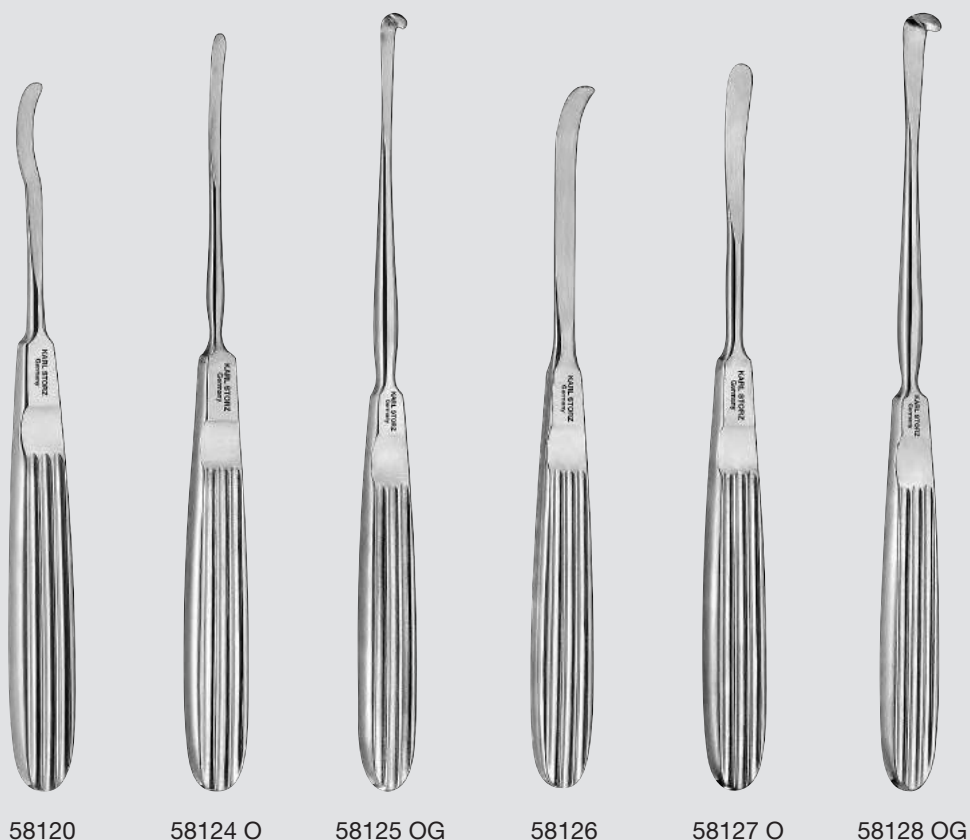
799314

799414

- 799114 BARRAQUER **Micro Needle Holder**, with round spring handle, straight, smooth-coated jaws, with ratchet, length 14 cm
- 799116 **Same**, length 16 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
- 799318 **Same**, length 18 cm
- 799414 BARRAQUER **Micro Needle Holder**, with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm
- 799416 **Same**, length 16 cm
- 799418 **Same**, length 18 cm

**Raspatories, Elevators, Curettes**





- 58120 MUEHLING **Raspatory**, curved, width 4 mm, length 16 cm
- 58124 O **Raspatory**, flat, width 4 mm, length 18 cm
- 58125 OG **Raspatory**, strongly curved, width 5 mm, length 20 cm
- 58126 **Raspatory**, curved, width 6 mm, length 16 cm
- 58127 O **Raspatory**, flat, width 7 mm, length 17.5 cm
- 58128 OG **Raspatory**, strongly curved, width 8 mm, length 20 cm



58126 HS



58126 HM



58126 HL



58122 RO



58126 G

- 58126 HS     **Orbital Raspatory**, outer side sharp, width 5 mm, working length 9 cm
- 58126 HM     **Orbital Raspatory**, outer side sharp, width 8 mm, working length 9 cm
- 58126 HL     **Orbital Raspatory**, outer side sharp, width 11 mm, working length 9 cm
- 58122 RO     **Raspatory**, double-ended, length 20.5 cm
- 58126 G     **Raspatory**, slightly curved, extra long, width 6 mm, length 24 cm



58125 S

58128 T

58124 KWG

58126 BRG

58126 W

28164 MDG

58125 S **Raspatory**, flat, width 15 mm, length 22 cm

58128 T **TRELAT Raspatory**, width 8 mm, length 15 cm

58124 KWG **KAHRE-WILLIGER Raspatory**, curved, width 4 mm, length 16 cm

58126 BRG **WILLIGER Raspatory**, flat, width 6 mm, length 16 cm

58126 W **WILLIGER Raspatory**, curved, width 6 mm, length 16 cm

28164 MDG **Raspatory**, inner side sharp, 5.5 mm, working length 9 cm

## Raspatories



168000    169009    169011  
169014    169016    169018    169027    169106    169206    169311    169503  
169506    58122 OD

- 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
- 169016    **Same**, width 16 mm
- 169018    **LANGENBECK Raspatory**, width 18 mm, length 19 cm
- 169027    **JANSEN Raspatory**, width 9 mm, length 17.5 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    **FARABEUFG Raspatory**, width 11 mm, length 18 cm
- 169503    **WILLIGER Elevator**, width 3.5 mm, length 16 cm
- 169506    **Same**, width 5 mm
- 58122 OD    **Raspatory**, for the mobilization of mucosa during the repair of palate defects and cleft palate surgery, double-ended, strongly curved, sharp and blunt, length 20.5 cm

# Raspatories



212000

212002

212803

212807

213004

213005

213008

213010



213011

213015

- 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
- 213010 **FISCH Raspatory**, width 10 mm, length 15.5 cm
- 213011 **Same**, length 16 cm
- 213015 **FISCH Periosteal Raspatory**, angled, width 11 mm, length 21 cm



# Elevators, Curettes



58130



58131



58135 R



58135 RG



58122 UD

58130 **KÖNIG Elevator**, strongly curved, length 15.5 cm

58131 **HALLE Elevator**, width 3.6 mm, length 18 cm

58135 R **Ramus Elevator**, length 17.5 cm

**NEW** 58135 RG **Ramus Elevator**, slotted, length 17.5 cm

**NEW** 58122 UD **Elevator**, double-ended, curved, sharp/blunt, width 5 mm, length 22 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



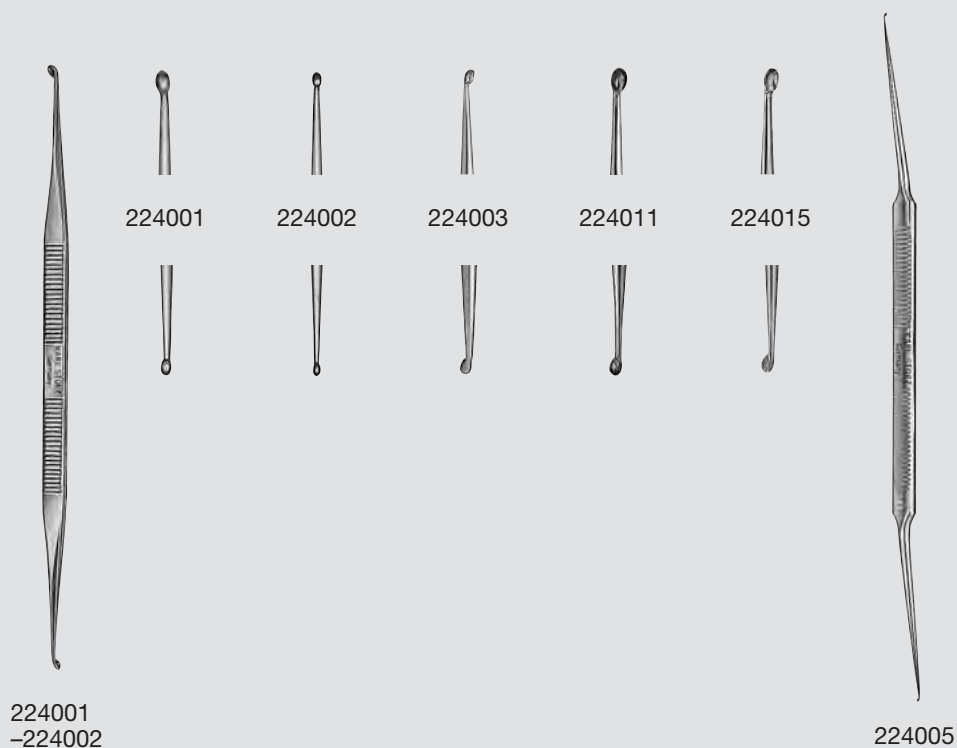
176020 **Same**, size 00



176010 **Same**, size 0

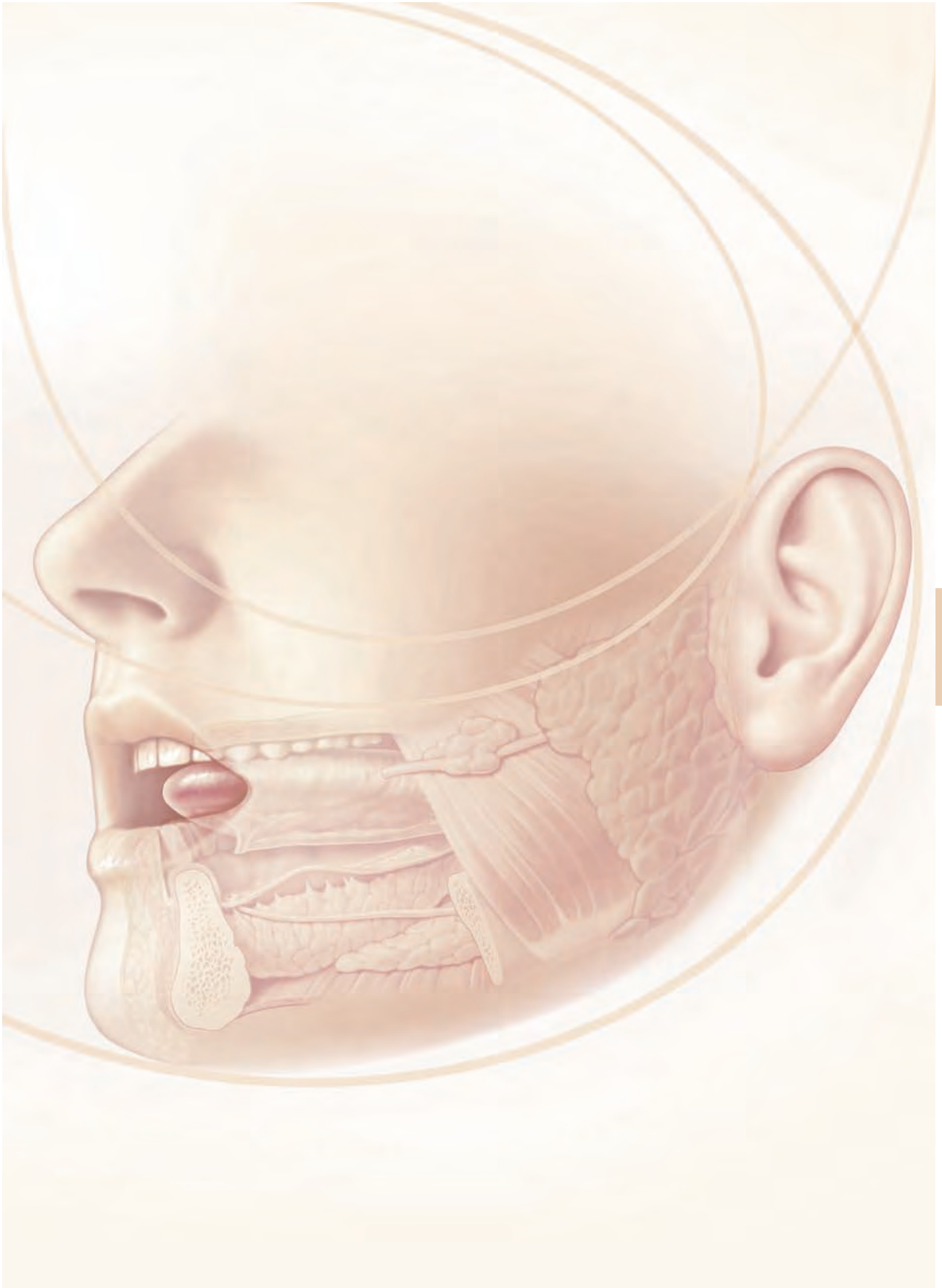


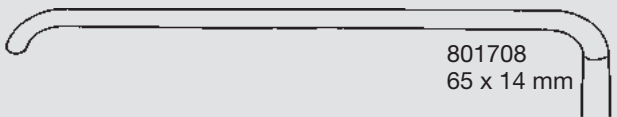
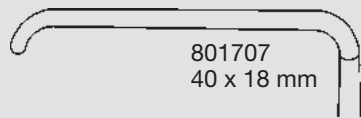
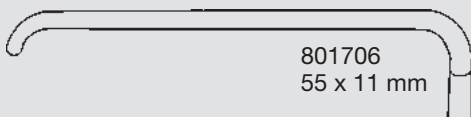
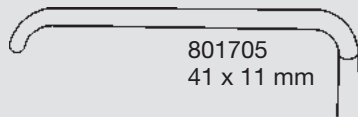
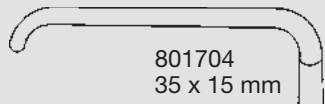
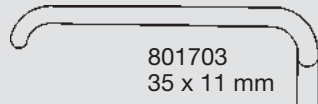
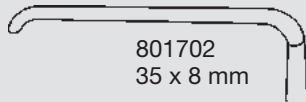
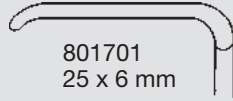
176001 **Same**, size 1



- 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

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

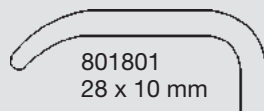
- 801707 KOCHER Retractor, size 40 x 18 mm, length 23 cm

- 801708 KOCHER-LANGENBECK Retractor, size 65 x 14 mm, length 21.5 cm

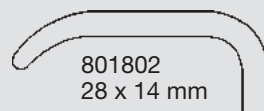
## Retractors



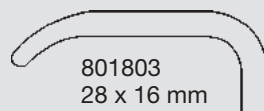
801801 –  
801810



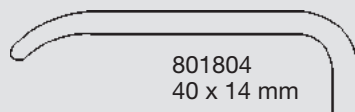
801801  
28 x 10 mm



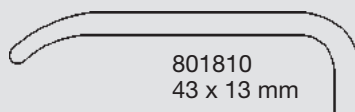
801802  
28 x 14 mm



801803  
28 x 16 mm



801804  
40 x 14 mm



801810  
43 x 13 mm

- 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



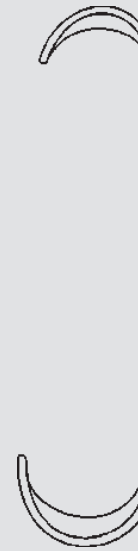
801901 –  
801903

19 x 22 mm



23 x 30 mm  
801901

25 x 26 mm



28 x 38 mm  
801902

28 x 29 mm



33 x 45 mm  
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



801403

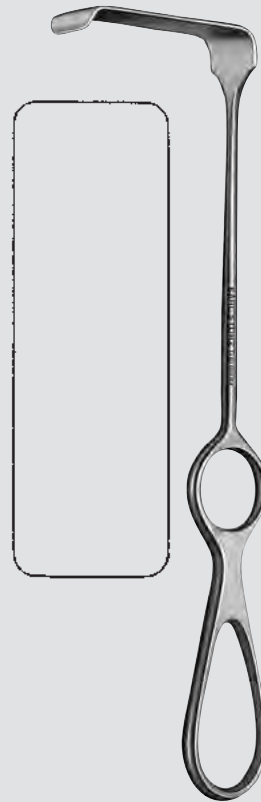
801404



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

## Retractors



786004



800204



786001



786002



786003



786004



786201



786202



786203



786204



800201



800202



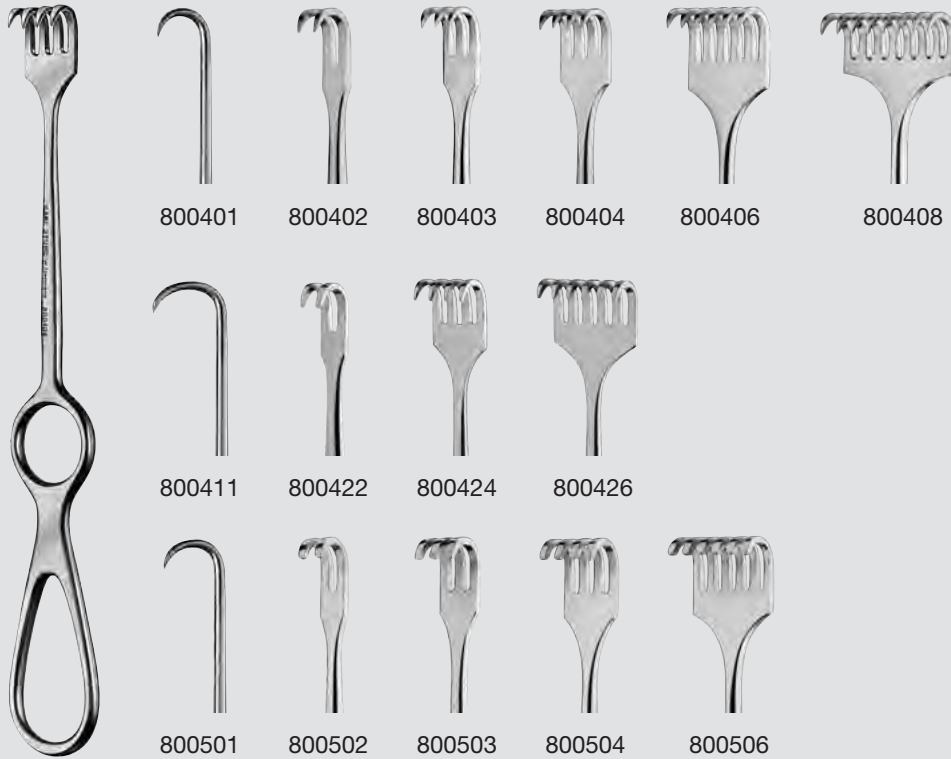
800203



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

# Retractors

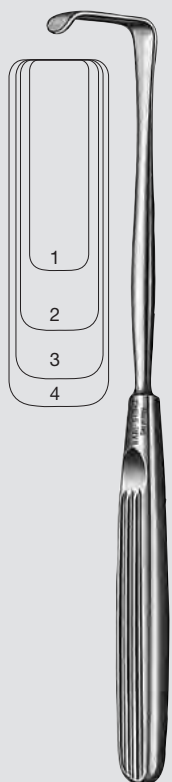


- 800401 VOLKMANN **Retractor**, sharp, 1 prong, length 21 cm
- 800402 **Same**, 2 prongs
- 800403 **Same**, 3 prongs
- 800404 **Same**, 4 prongs
- 800406 **Same**, 6 prongs
- 800408 VOLKMANN **Retractor**, sharp, 8 prongs, length 22 cm
- 800411 VOLKMANN **Retractor**, sharp, 1 prong, long curve for 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
- 800426 **Same**, 6 prongs
- 800501 VOLKMANN **Retractor**, blunt, 1 prong, length 21 cm
- 800502 **Same**, 2 prongs
- 800503 **Same**, 3 prongs
- 800504 **Same**, 4 prongs
- 800506 **Same**, 6 prongs



## Retractors



801001 –  
801004



801020



801022



801025



801201



801202

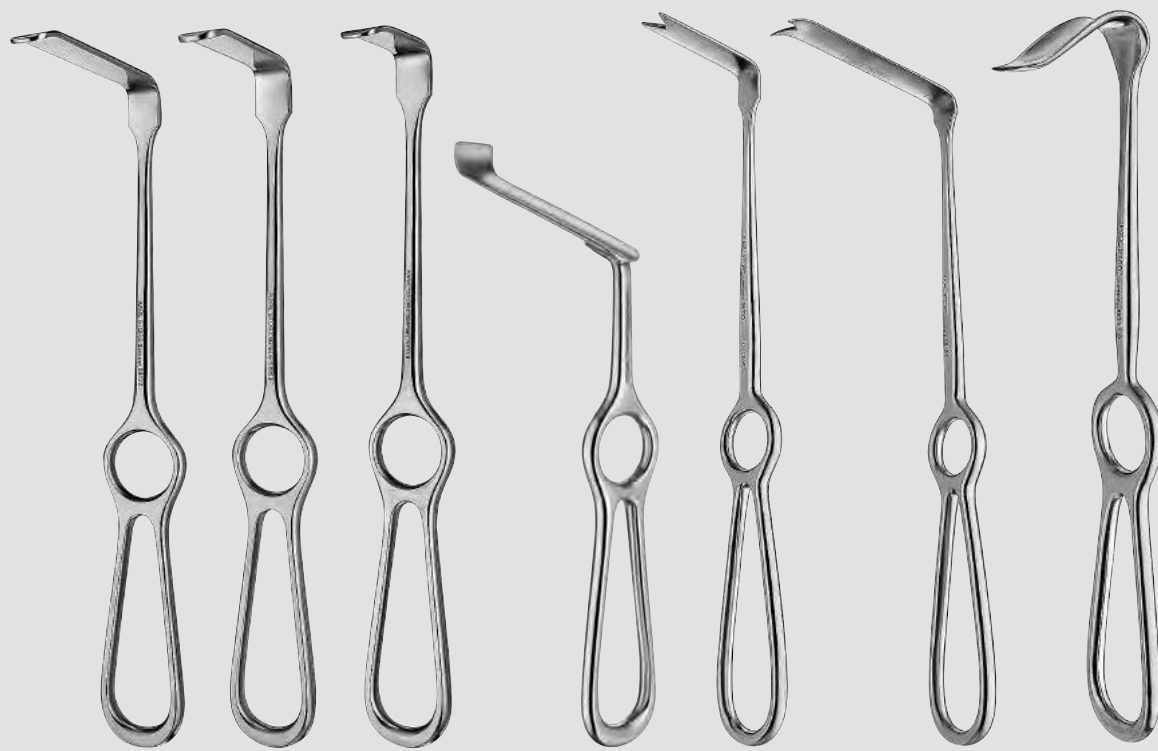


801203

- 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
- 801203 **Same**, large, size 3, 28 x 28 mm

# Retractors



58152

58153

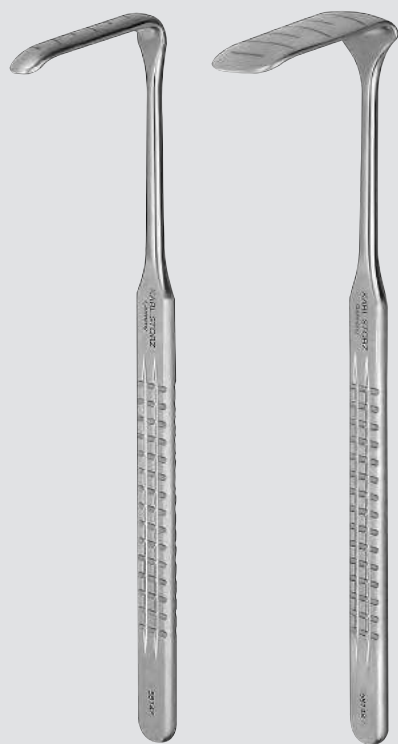
58154

58152 S

58155

58156

58157 B

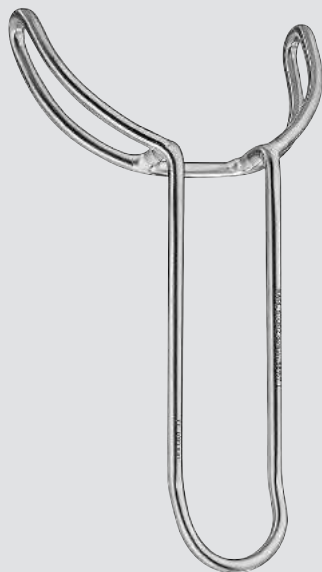


58147

58148

- 58152 **Retractor**, solid, straight, size 80 x 12 mm, length 21.5 cm
- 58153 **Same**, size 60 x 13 mm
- 58154 **Same**, size 40 x 13 mm
- 58152 S **SCHUCHARDT Retractor**, width 16 mm, length 19.5 cm
- 58155 **Ramus Retractor**, size 45 x 10 mm, length 22 cm
- 58156 **Same**, size 72 x 10 mm
- 58157 B **BÜCHS Cheek Retractor**, length 20.5 cm
- NEW** 58147 **Orbital Retractor**, angled 80°, with scale, with flat handle, size 40 x 8 mm, length 16 cm
- NEW** 58148 **Orbital Retractor**, angled 80°, with scale, size 40 x 20 mm, length 16 cm

## Retractors



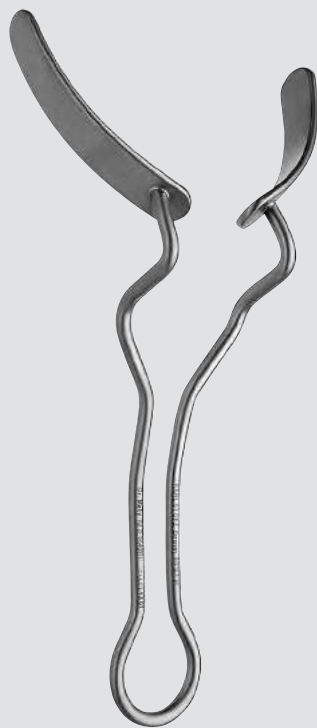
58157 L



58159 L



58159 R



58157 M



58157 V

58157 L **Lip Retractor**, length 15 cm

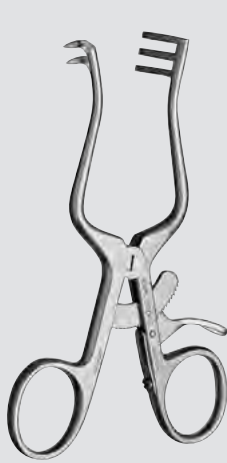
58159 L **TESSIER Retractor**, left, length 15 cm

58159 R **Same**, right

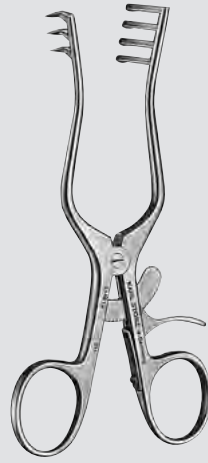
**NEW** 58157 M **MATY Universal Cheek Retractor**, for upper and lower jaws

**NEW** 58157 V **KAPOGIANNI Vestibulum Retractor**, for retracting the dissected mucoperiosteal flap

# Retractors



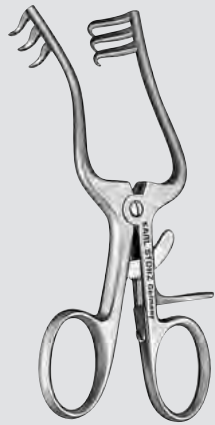
214811



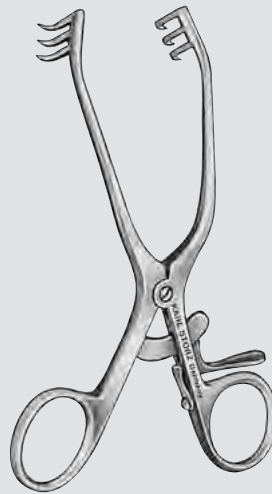
214813 –  
214820



215001



219511  
219513



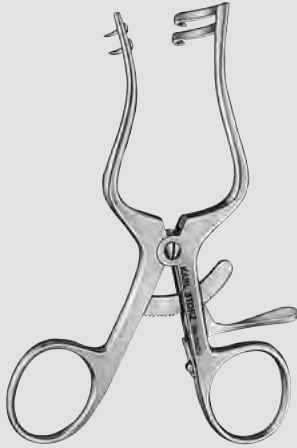
219613



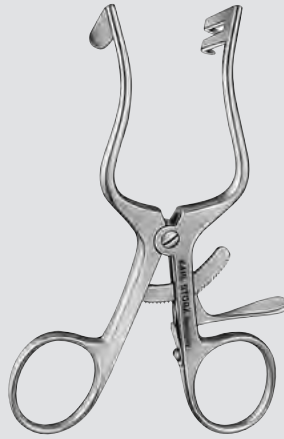
219714 K

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

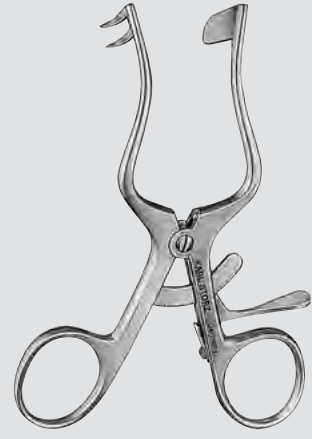
## Retractors



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 antireflex 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

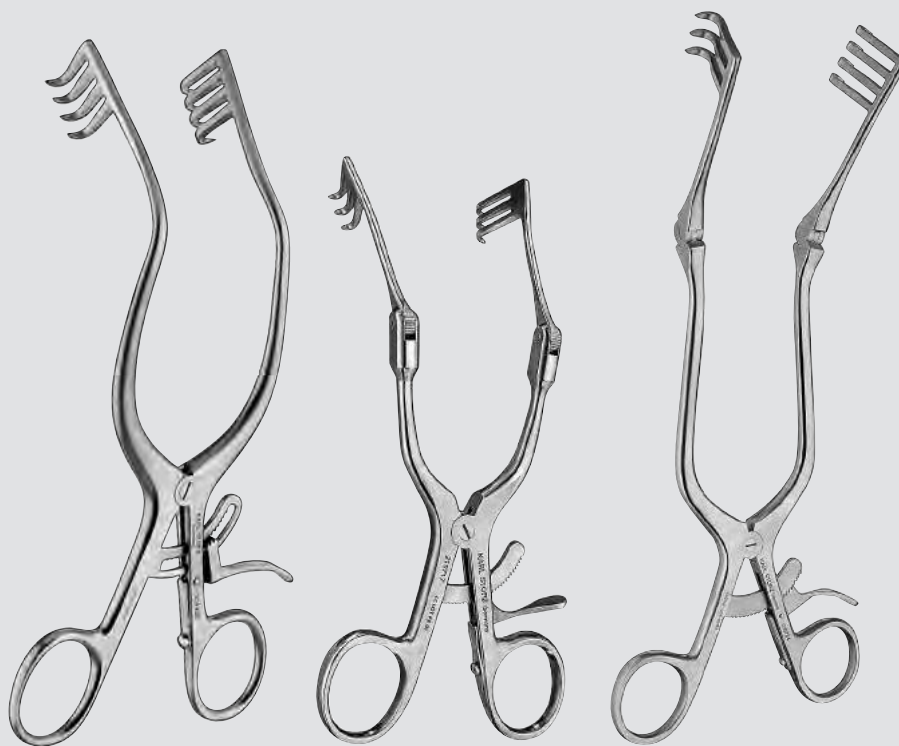
DALCHOW **Retractor**, small model for children, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm

220700

WILLIGER **Retractor**, 4 prongs, sharp, length 13 cm

220703

WILLIGER **Retractor**, 3 prongs, sharp, length 13 cm



214920

219717  
219717 B

219724

- 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

## Retractors



58161 OK

58158 M

58150

58151

58156 G

58157

58161 OK **Chin Retractor**, width 16 mm,  
length 15.5 cm

58158 M **METZ Progeny Retractor**,  
length 15 cm

58150 **Channel Retractor**, width 8 mm,  
length 16.5 cm

58151 **Channel Retractor**, width 10 mm,  
length 17 cm

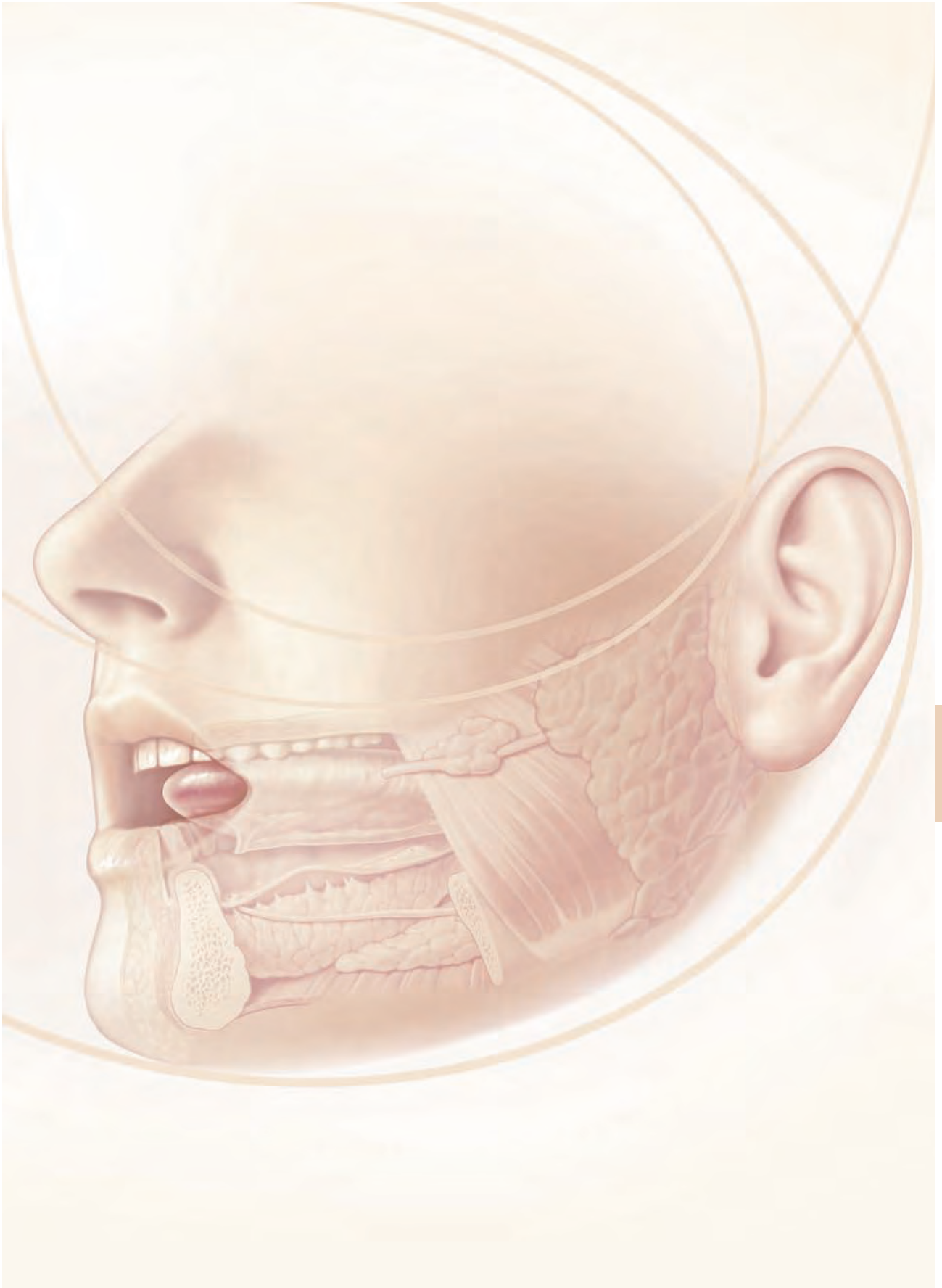
**NEW** 58156 G **Ramus Retractor**, slotted, size 72 x 10 mm,  
length 22 cm

**NEW** 58157 **CAWOOD-MINNESOTA Cheek Retractor**,  
modified by MÜLLER, length 15 cm





# Mouth Gags



# Tongue Depressors



740000

740014

740200

740500

740701

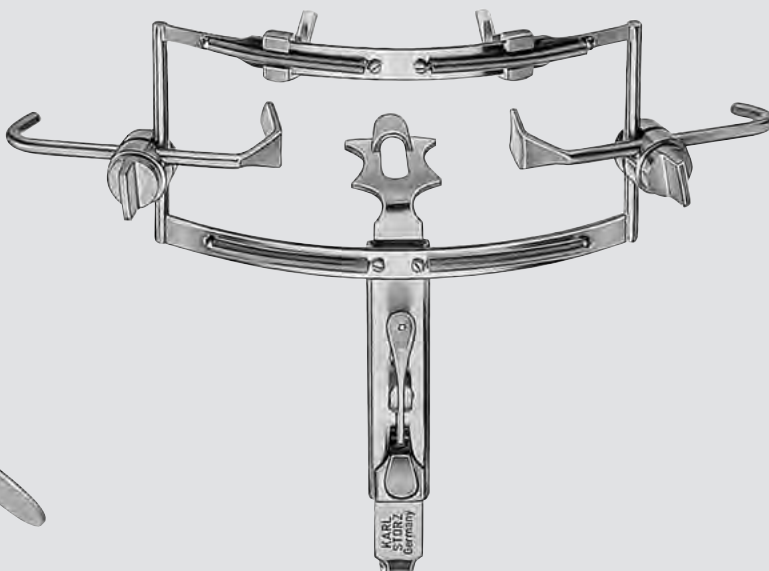
740700

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



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

## DAVIS-MEYER Tongue Blades



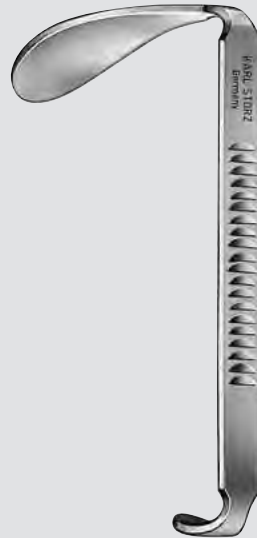
743910	DAVIS-MEYER <b>Tongue Blade</b> , with anesthetic tube, size 1, 28 x 68 mm
743915	<b>Same</b> , size 1½, 29 x 73 mm
743920	<b>Same</b> , size 2, 30 x 76 mm
743925	<b>Same</b> , size 2½, 31 x 83 mm
743930	<b>Same</b> , size 3, 32 x 88 mm
743935	<b>Same</b> , size 3½, 33 x 98 mm
743940	<b>Same</b> , size 4, 34 x 108 mm

**Components/Spare Parts** see chapter 16

# Tongue Blades

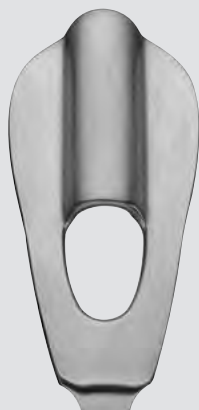


744101 –  
744104



744101 –  
744104

- 744101      **HERBERHOLD Tongue Blade**, with asymmetric 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



744200 –  
744205



744251 –  
744253



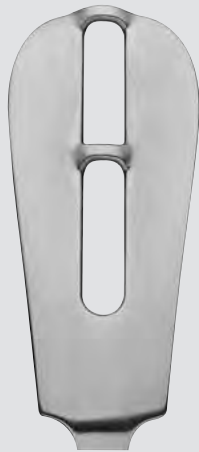
744200 –  
744205

- 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

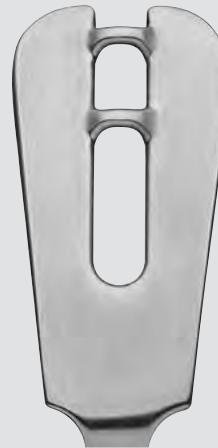
# Tongue Blades



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

# Tongue Blades



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



## Mouth Gags



- 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

**Components/Spare Parts** see chapter 16



744600



58195



58194

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

**NEW** 58194 **MOLT Mouth Gag**, large model, length 14 cm

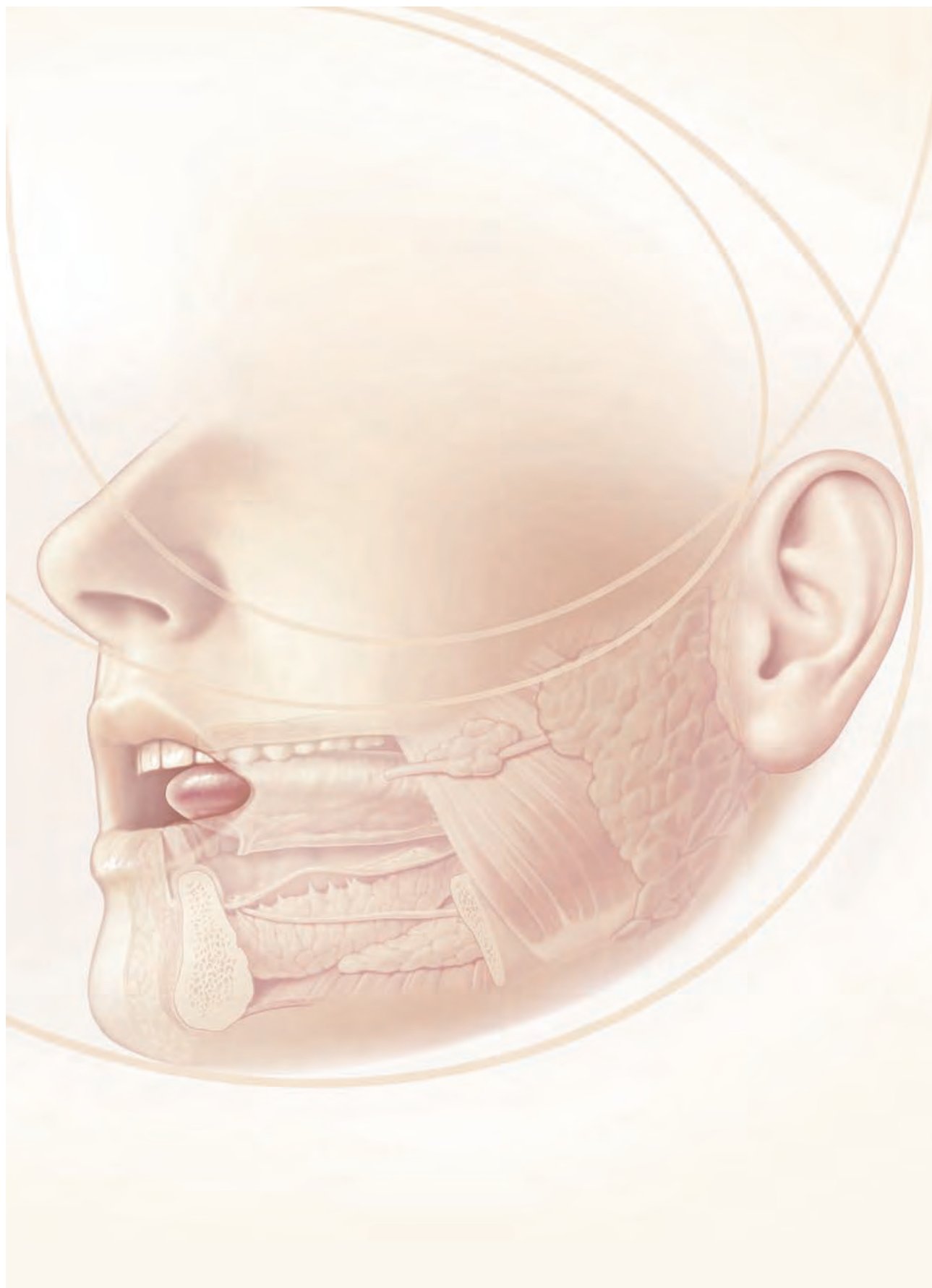
58195 **DEHNHARDT Mouth Gag**, length 12.5 cm

742910 **HARTL Mouth Gag**, right blade with U-shaped curve, length 13 cm

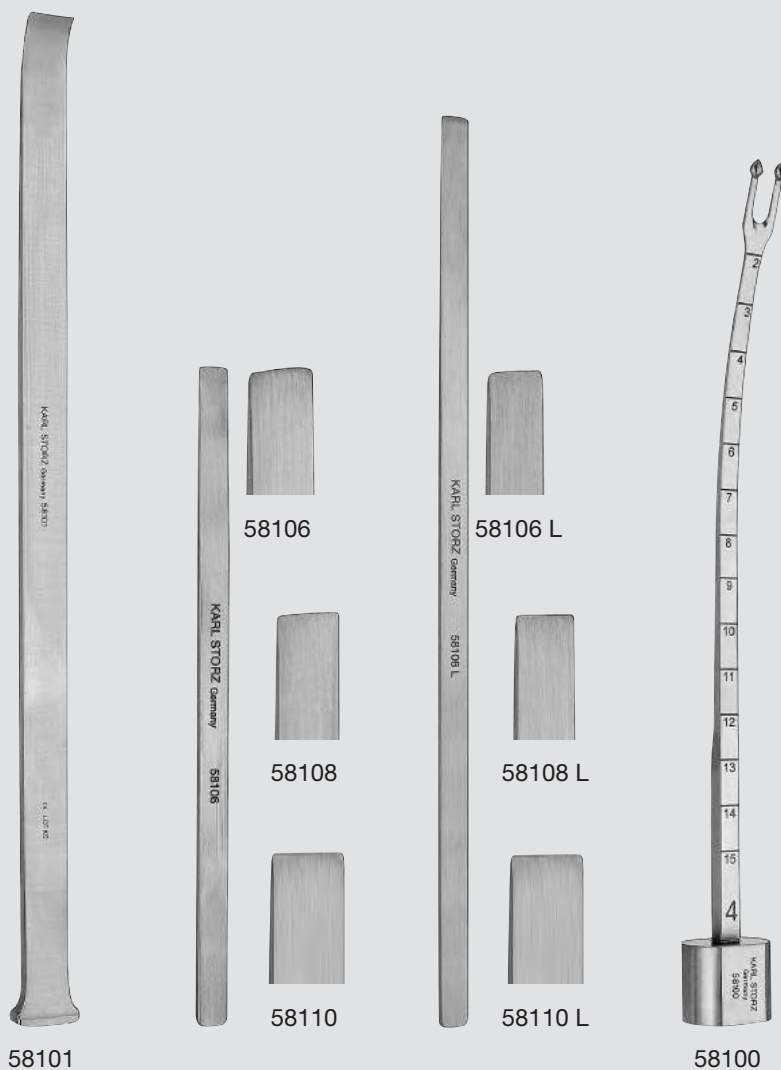
742920 **HARTL Mouth Gag**, left blade with U-shaped curve, length 13 cm

**Components/Spare Parts** see chapter 16

## Osteotomes, Chisels, Mallets



# Osteotomes, Septum Osteotome



- 58101 **Osteotome**, curved, width 11 mm, length 23.5 cm
- 58106 LAMBOTTE **Osteotome**, width 6 mm, length 12.5 cm
- 58108 **Same**, width 8 mm
- 58110 **Same**, width 10 mm
- 58106 L LAMBOTTE **Osteotome**, width 6 mm, length 18.5 cm
- 58108 L **Same**, width 8 mm
- 58110 L **Same**, width 10 mm
- 58100 **Septum Osteotome**, width 4 mm, length 18.5 cm

# Osteotomes, Corticalis Punch, <sup>NEW</sup> Cylinder Osteotomes



58104 U

58106 UG

58110 LL

58162 KS

58166 KS

58162 A

- 58104 U **Osteotome**, straight, width 4 mm, length 17.5 cm  
 58106 U **Same**, width 6 mm  
 58108 U **Same**, width 8 mm  
 58106 UG **Osteotome**, curved, width 6 mm, length 17.5 cm  
 58108 UG **Same**, width 8 mm  
 58110 LL LAMBOTTE **Osteotome**, width 10 mm, length 24.5 cm  
 58115 LL **Same**, width 15 mm  
 58120 LL **Same**, width 20 mm  
 58162 KS SHEPARD **Corticalis Punch**, diameter 12 mm, length 12 cm,  
 for use with Pusher 58162 A  
 58166 KS SHEPARD **Cylinder Osteotome**, diameter 6 mm, length 12.5 cm,  
 for use with Pusher 58162 A and Cross Pin 58162 S  
 58165 KS **Same**, diameter 5 mm  
 58168 KS **Same**, diameter 8 mm  
 58162 A SHEPARD **Pusher**, for use with 58162 KS,  
 58165 KS, 58166 KS, 58168 KS  
 58162 S SHEPARD **Cross Pin**, for rotating Cylinder  
 Osteotome 58165 KS, 58166 KS, 58168 KS

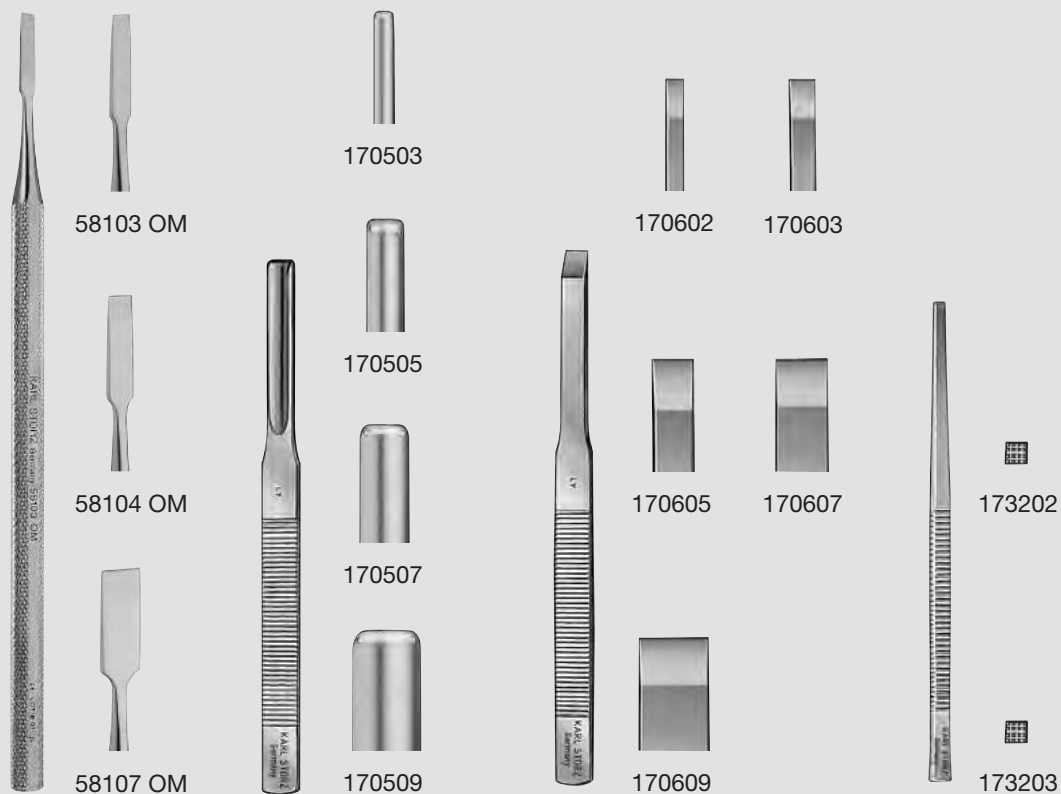


58100 LMH  
58100 LMG



- |           |  |
|-----------|--|
| 58100 LMH | LEXER <b>Osteotome</b> , hollow, width 10 mm, length 18.5 cm |
| 58100 LMG | <b>Same</b> , width 20 mm                                    |
| 58104 LM  | LEXER <b>Osteotome</b> , flat, width 4 mm, length 18.5 cm    |
| 58106 LM  | <b>Same</b> , width 6 mm                                     |
| 58108 LM  | <b>Same</b> , width 8 mm                                     |
| 58110 LM  | <b>Same</b> , width 10 mm                                    |
| 58112 LM  | <b>Same</b> , width 12 mm                                    |
| 58115 LM  | <b>Same</b> , width 15 mm                                    |

# Osteotomes, Chisels



- 58103 OM **Osteotome**, flat, double-edged grinding, width 3 mm, length 15.5 cm
- 58104 OM **Same**, width 4 mm
- 58107 OM **Same**, width 7 mm
- 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
- 170609 **Same**, width 9 mm
- 173202 PASSOW **Chisel**, hemostatic, width 2 x 2 mm, length 13 cm
- 173203 **Same**, width 3 x 3 mm

# Mallets



58100 HM



174000



174200



174700



174800

58100 HM **Plastic Mallet**, weight 250 g, diameter 42 mm, length 25 cm

174000 **Metal Mallet**, with lead inlet, length 20 cm

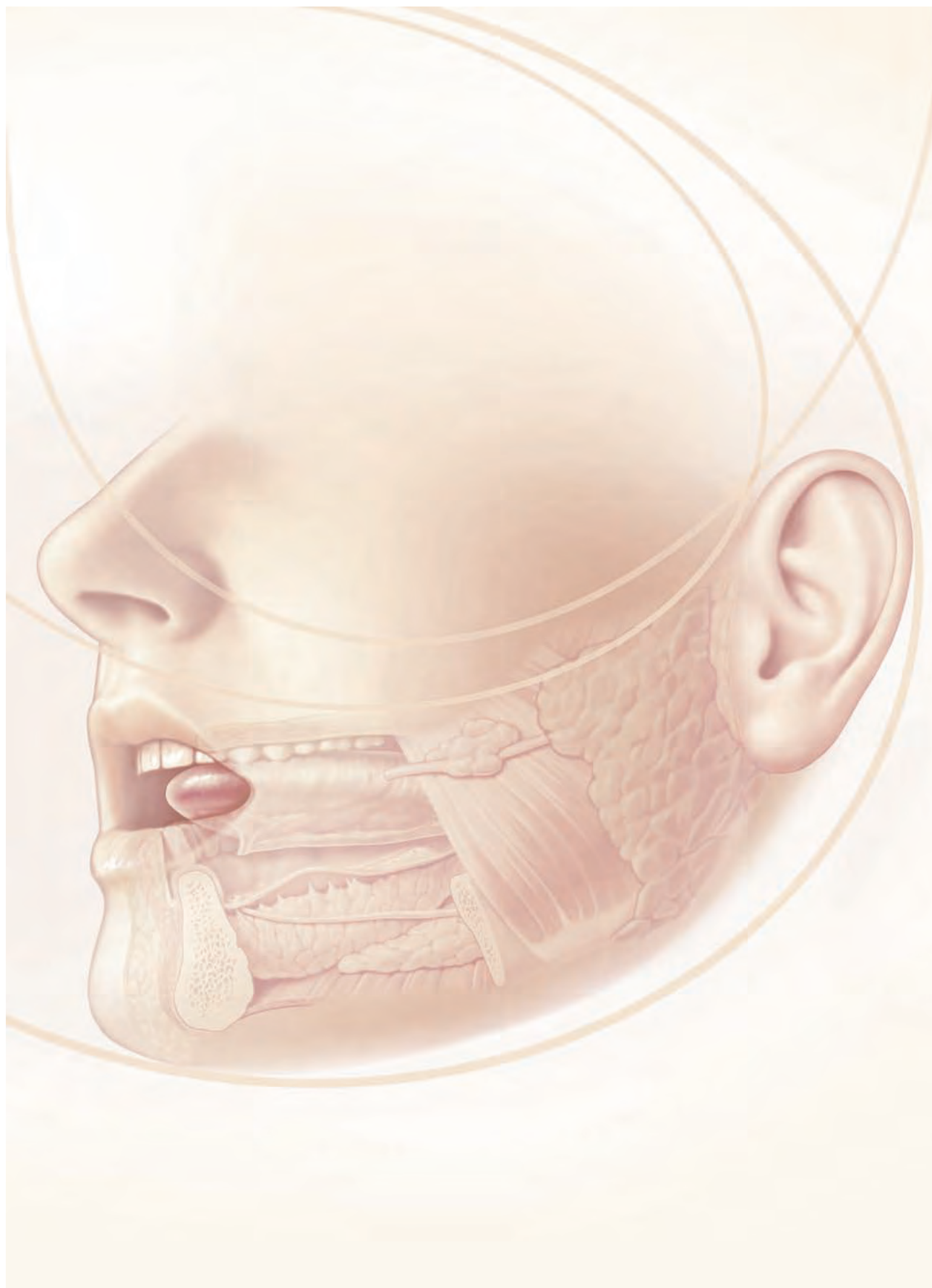
174200 **COTTLE Metal Mallet**, length 18 cm

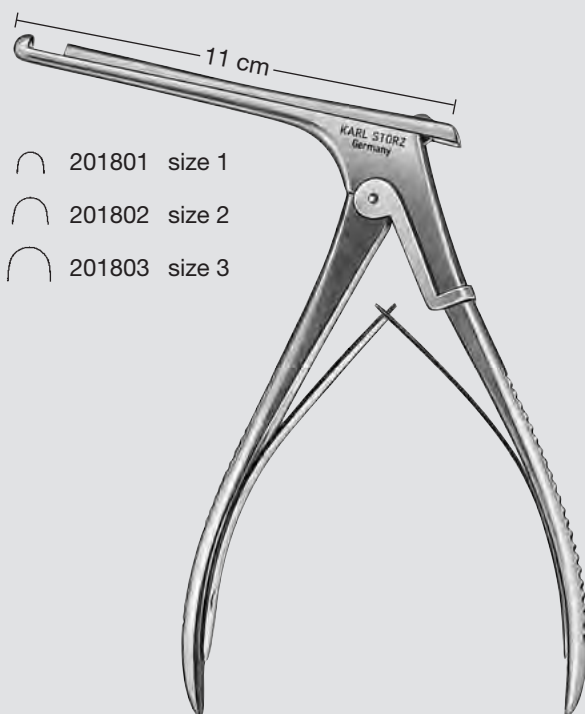
174700 **Metal Mallet**, with NYLON replacement, small, lightweight model, length 18 cm

174800 **Same**, length 22.5 cm



**Reposition Forceps, Bone Holding  
Forceps, Rongeurs, Bone Levers**





- 201801 size 1
- 201802 size 2
- 201803 size 3

201801 –  
201803

- |        |   |
|--------|---|
| 201801 | KERRISON <b>Rongeur</b> , size 1,<br>working length 11 cm |
| 201802 | <b>Same</b> , size 2                                      |
| 201803 | <b>Same</b> , size 3                                      |

## Rongeurs



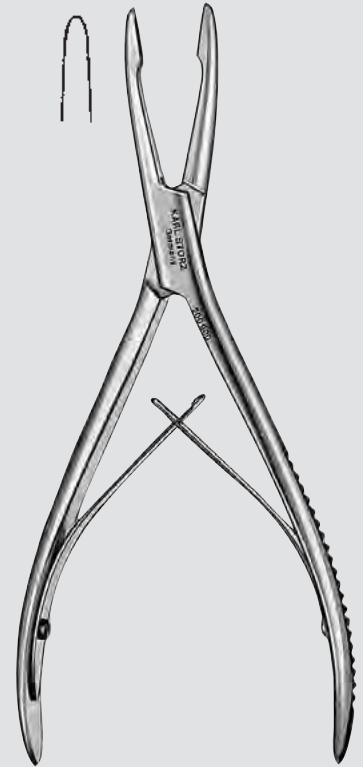
200400



200600  
200619



200800



200900



201000



201200



201210  
489044

- 200400 **BEYER Rongeur**, slender, curved, length 17 cm
- 200600 **LEMPERT Rongeur**, slender, straight, length 15.5 cm
- 200619 **Same**, length 19 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
- 201210 **BEYER Rongeur**, with double joint, curved, slender, length 18 cm
- 489044 **LUER-RUSKIN Rongeur**, with double joint, curved, 2 mm, length 15 cm

## Wire Cutting Forceps



58140



58141



58142

- 58140 **REILL Wire Cutting Forceps**, with tungsten carbide inserts, length 17.5 cm
- 58141 **Flat-Nosed Forceps**, with serrated jaws, length 14 cm
- 58142 **KORKHAUS Wire and Ligature Forceps**, length 16.5 cm

# Reposition Forceps, Bone Holding Forceps



58160 RZ



58160

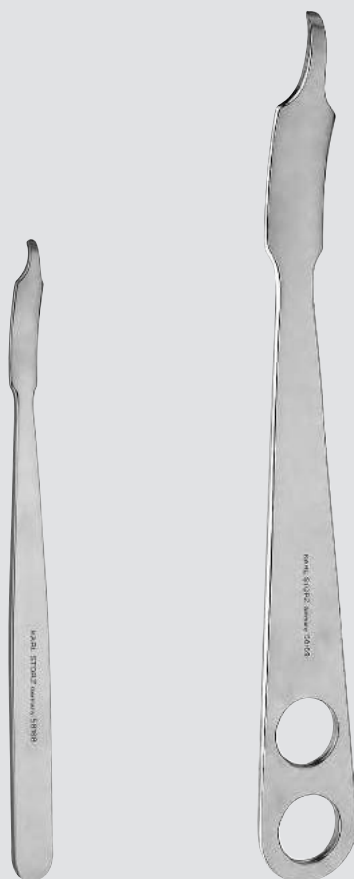


58160 KD



58167

- 58160 RZ     **Reposition Forceps**, with ratchet,  
1 x 1 teeth, length 16 cm
- 58160       **Bone Holding Forceps**, length 20 cm
- 58160 KD   **DINGMANN Bone Holding Forceps**,  
length 19 cm
- 58167       **Distending Forceps**, length 23.5 cm



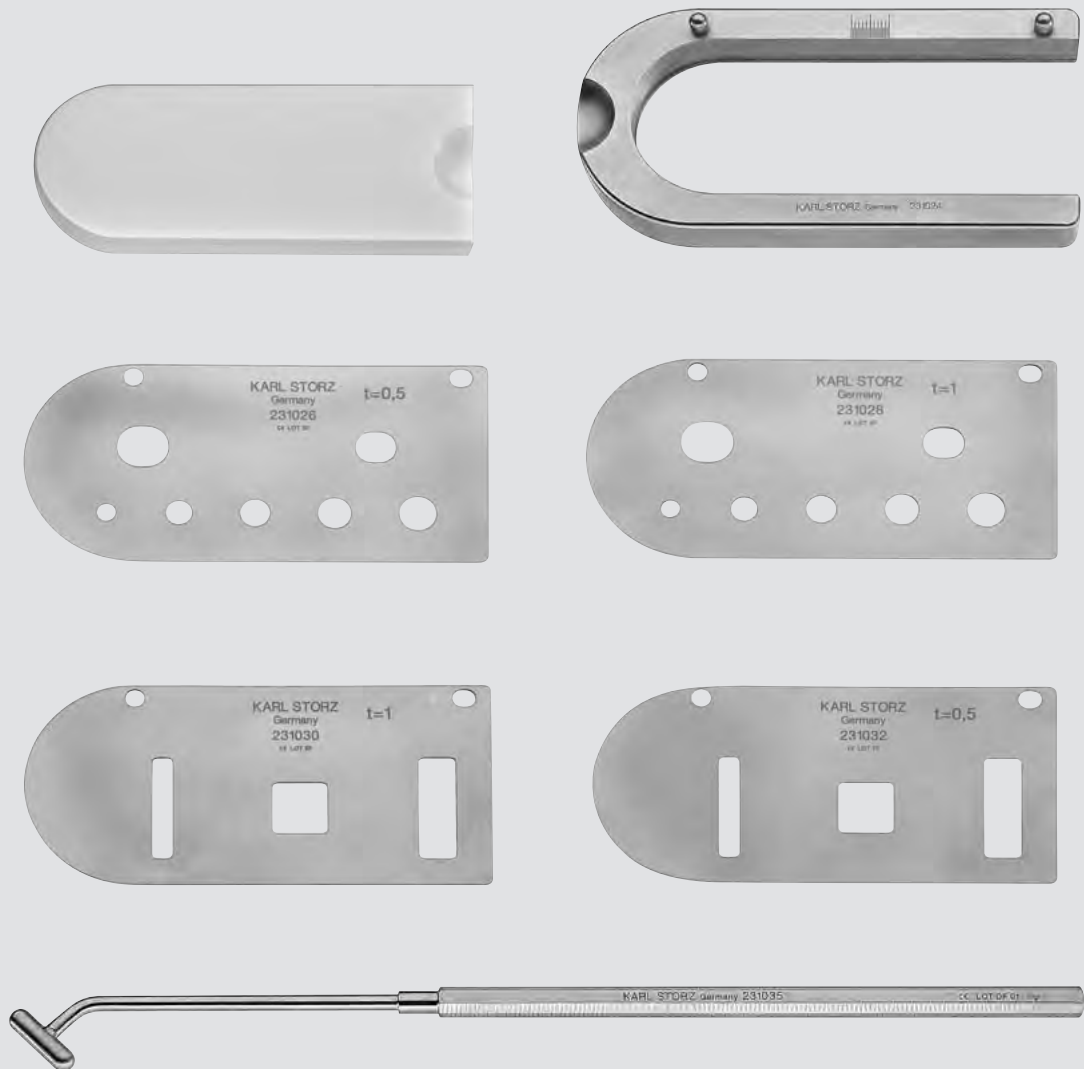
58168

58169

58168 HOHMANN **Bone Lever**,  
width 8 mm, length 16 cm

58169 HOHMANN **Bone Lever**,  
width 18 mm, length 23.5 cm

# Cartilage Cutting Block



- 231020 MILEWSKI **Cartilage Cutting Block**, with 4 exchangeable templates including:
- Cutting Block**, plastic, white, **autoclavable**, size 120 x 45 x 15 mm
  - Metal Frame**, U-shaped, with 2 pins to hold the templates
  - Template for Ear Cartilage**, with 5 round holes 5, 7, 8, 9 and 10 mm in 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

7-071

**Components/Spare Parts** see chapter 16



231000



231008



231009



231010



231011



58900 G

- 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
- 58900 G **GELLRICH Bone Preparation Block,** for  
preparing cartilage and bone in dental  
surgery, width 7 cm, length 12.5 cm

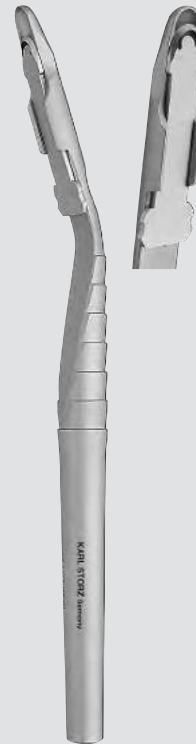




58900 KM



58974



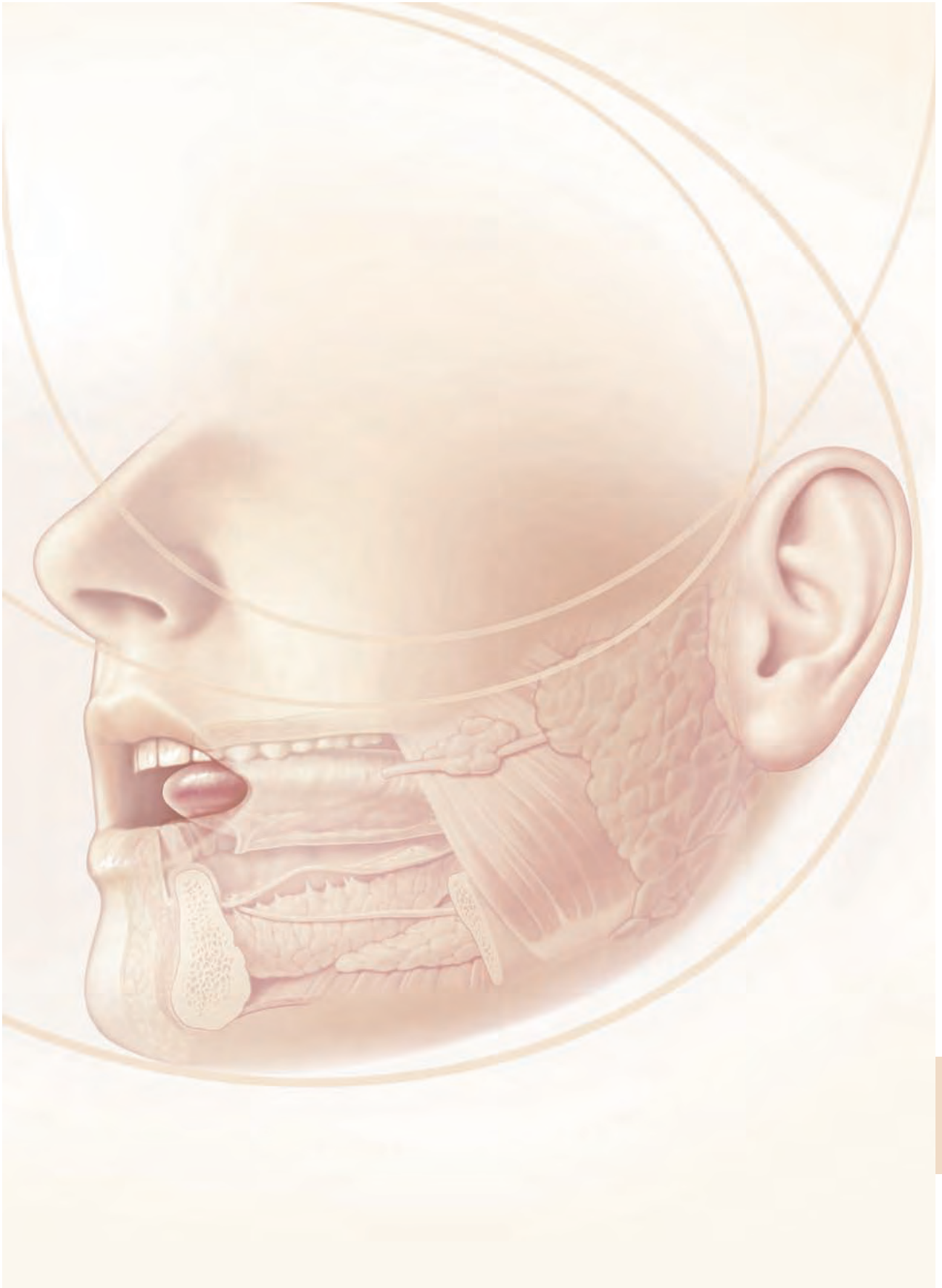
58974 G

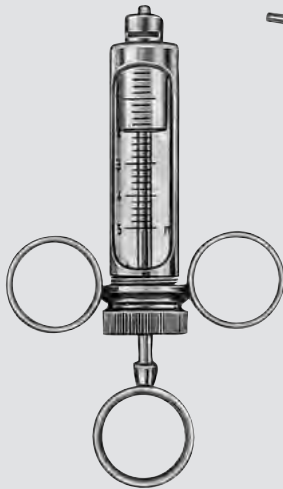


58954

- 58900 KM **Bone Mill**, for the comminution of autologous bone material including:  
**Cleaning Instruments**  
**Metal Tray**, with compartments and lid  
**KIRSCH Curette**, sinus 7, size 8 x 10 mm
- 58974 **Bone Scraper**, straight, diameter 10 mm, reusable
- 58974 G **Bone Scraper**, converse curve 20°, diameter 10 mm, reusable
- 58954 **Mixing Cup**, stainless steel, with plastic lid, diameter 4 cm







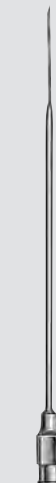
810002 – 810010



810102 – 810110



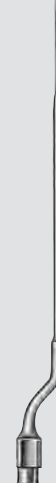
771506



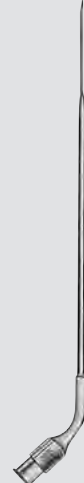
810502



810503



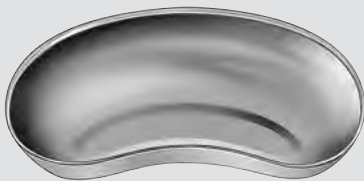
810505



810506



58999



810002

“ULTRA-ASEPT” **Syringe**, replaceable glass barrel, LUER-Lock, 2 ccm

810005

**Same**, 5 ccm

810010

**Same**, 10 ccm

810102

“ULTRA-ASEPT” **Spare Barrel**, 2 ccm

810105

**Same**, 5 ccm

810110

**Same**, 10 ccm



810802

820517 – 820527

810502

**Needle, Tonsil**, LUER-Lock, straight, long

810503

**Same**, 90° forward angle

810505

**Needle, Septum**, LUER-Lock, bayonet-shaped

810506

**Same**, angular

820517

**Kidney-Shaped Dressing Tray**, stainless steel, length 17 cm

820525

**Same**, length 25 cm

820527

**Same**, length 27.5 cm

771506

**Larynx Cannula**, LUER-Lock, length 13 cm

810802

**Cup Medicine**, 25 ccm, diameter 60 mm, height 28 mm

810805

**Cup Medicine**, 50 ccm, diameter 57 mm, height 47 mm

810806

**Cup Medicine**, 60 ccm, diameter 70 mm, height 33 mm

810810

**Cup Medicine**, 100 ccm, diameter 80 mm, height 30 mm

810820

**Cup Medicine**, 200 ccm, diameter 100 mm, height 50 mm

810840

**Cup Medicine**, 400 ccm, diameter 130 mm, height 65 mm



810806



810805

**NEW** 815413

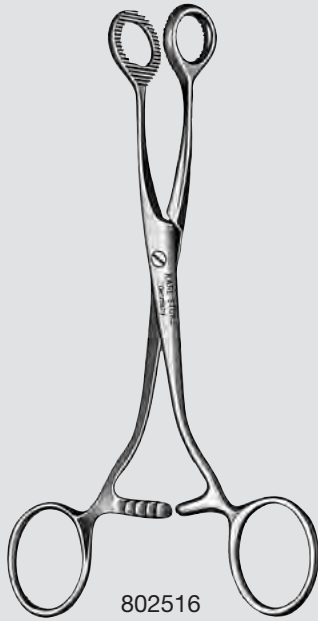
**Jar**, stainless steel, diameter 7.8 cm, height 14.5 cm

**NEW** 58999

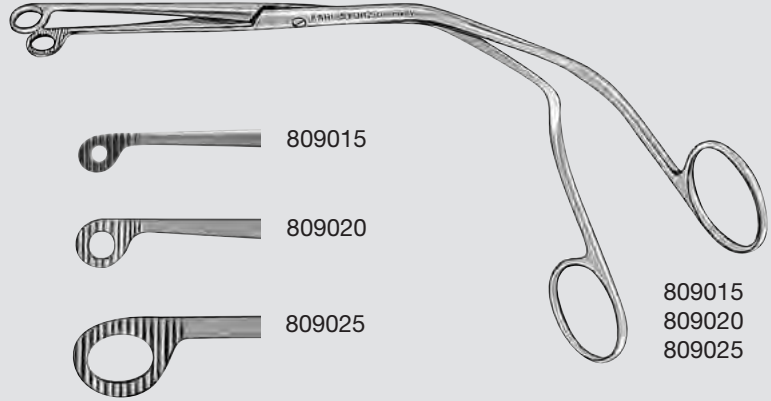
**Cylinder Ampoule Syringe with Tilting Mechanism**, 3 aspiration hooks and ratchet, 1.8 ml



810810 – 810840



802516



809015

809020

809025

809015  
809020  
809025

802516

**COLLIN Tongue Seizing Forceps**, length 16 cm

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



748200

748220  
748226

58198

58199

525515

- 748200 **Dressing and Sponge Holding Forceps**,  
slim, curved, with ratchet, length 18 cm
- 748220 **DUPLAY Dressing and Sponge Holding Forceps**,  
curved, with ratchet, length 21 cm
- 748226 **MAIER Dressing and Sponge Holding Forceps**,  
curved, with ratchet, length 26 cm
- 58198 **Mandibular Awl**, length 14 cm
- 58199 **Awl for Zygomatic Arch**, length 23 cm
- NEW** 525515 **CASTROVIEJO Skin Measurement Caliper**,  
measurement range 0 – 150 mm, length 14 cm



797338 –  
797344



797514

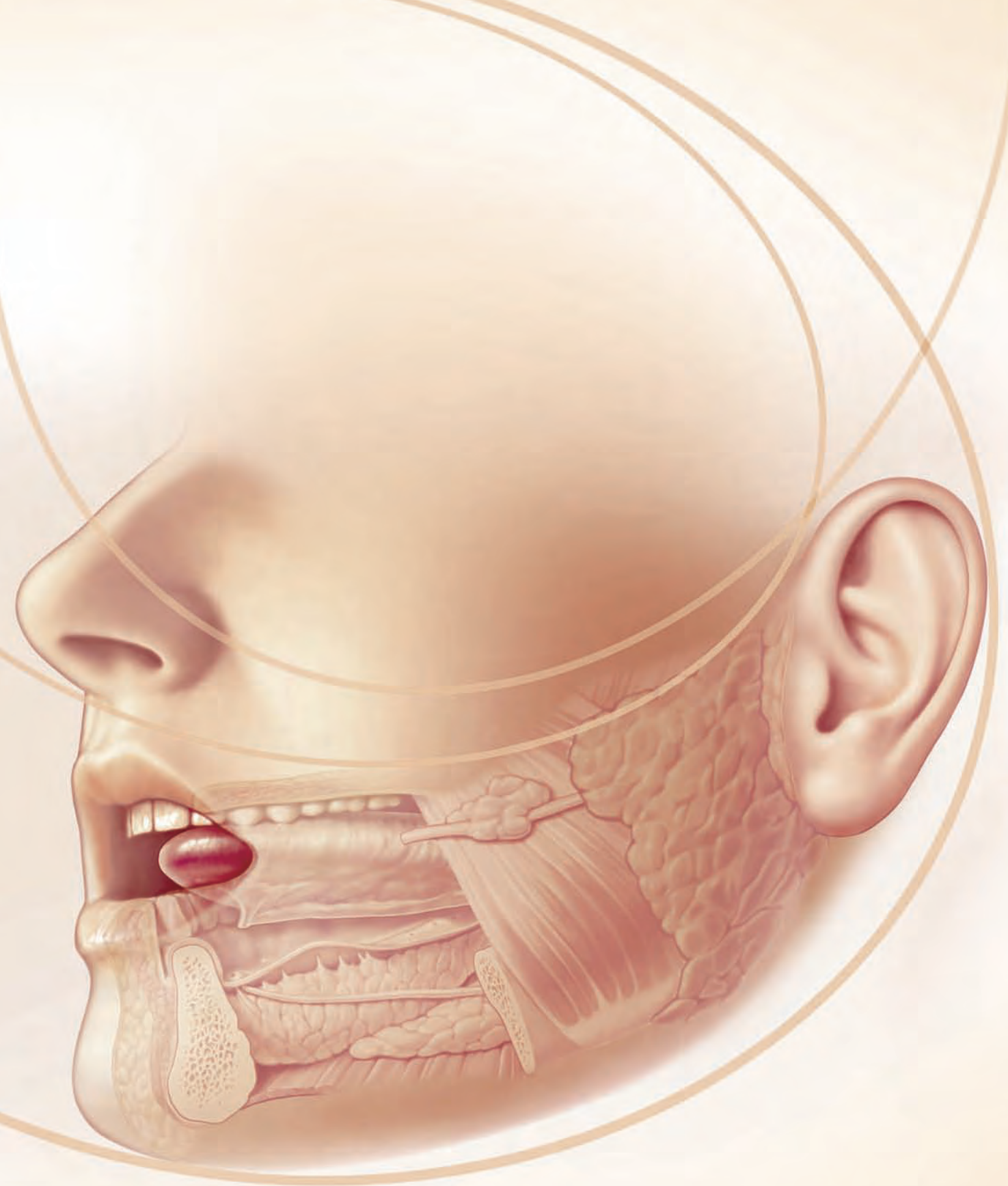


797518

- 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





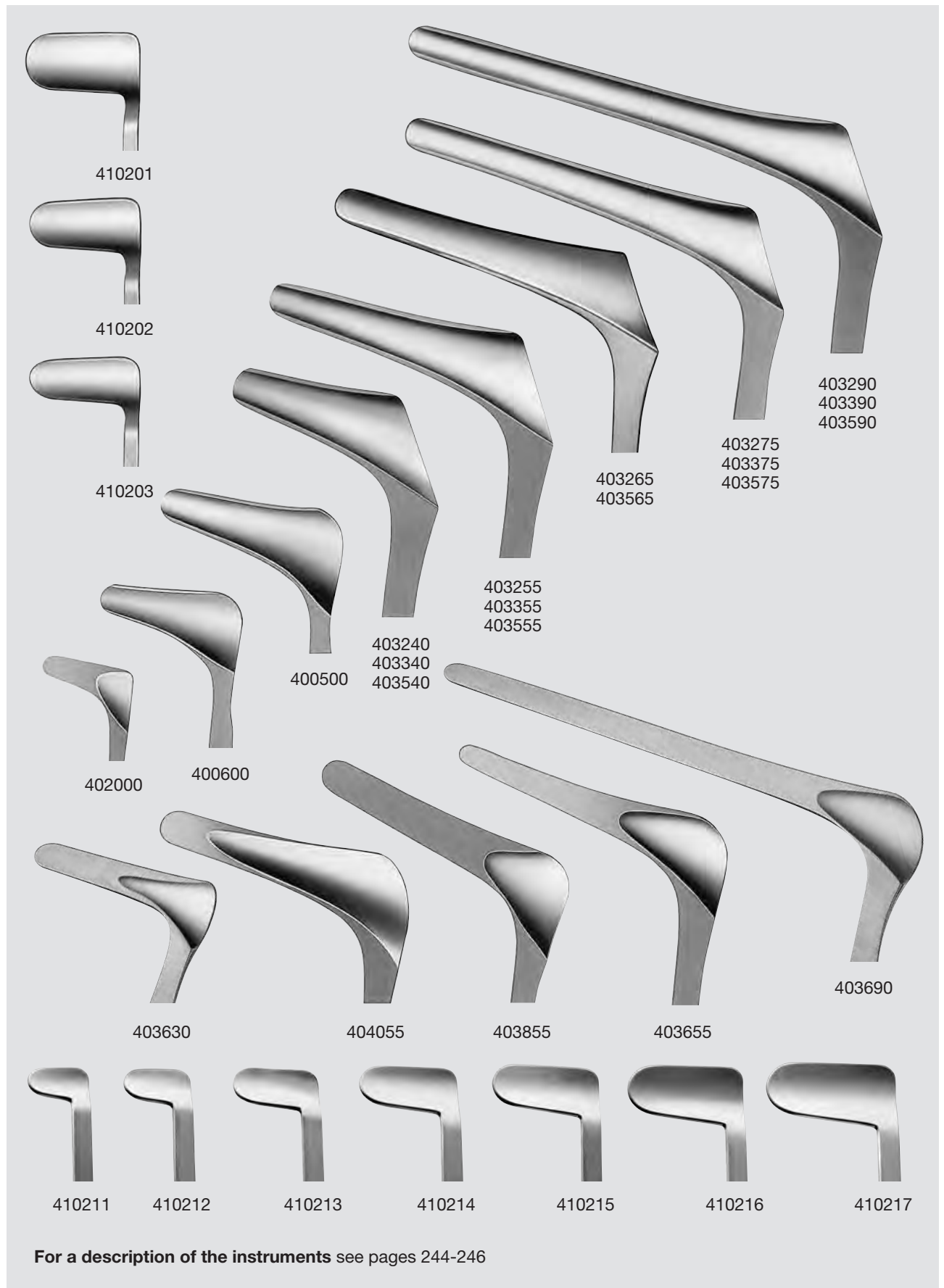


# **INSTRUMENTS FOR RHINOLOGY AND RHINOPLASTY**



# Nose

Instruments for Rhinology and Rhinoplasty



10-981

# Nose

Instruments for Rhinology and Rhinoplasty



400500



400520



400600



402000



410201 –  
410203



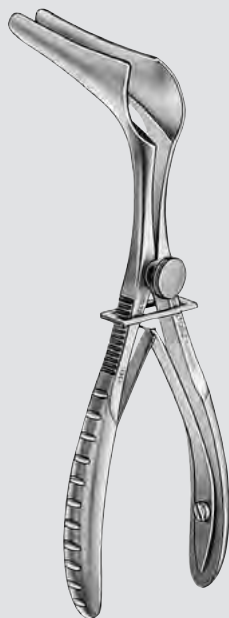
410211 –  
410217

- 400500 HARTMANN **Nasal Speculum**, for adults, length 13 cm
- 400520 BECKMANN **Nasal Speculum**, for adults, curved sideways, 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

Components/Spare Parts see chapter 16

# Nose

Instruments for Rhinology and Rhinoplasty



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

# Nose

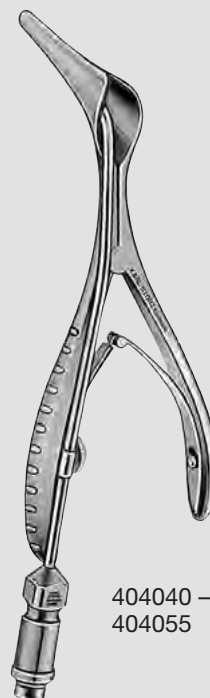
Instruments for Rhinology and Rhinoplasty



403630 –  
403690



403835 –  
403890



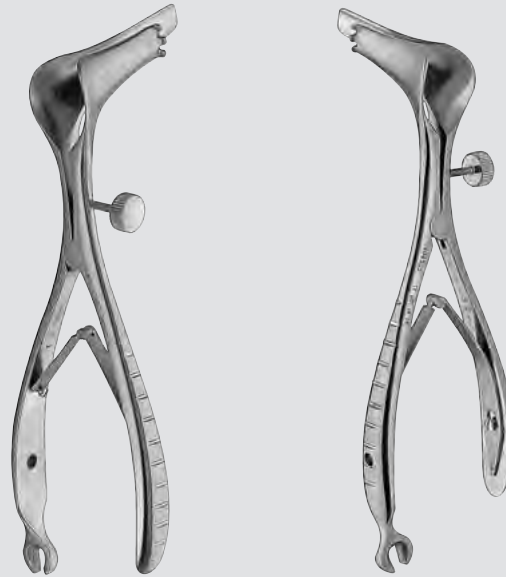
404040 –  
404055

- 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

**Components/Spare Parts** see chapter 16

# Nose

Instruments for Rhinology and Rhinoplasty



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

# Nose

Instruments for Rhinology and Rhinoplasty



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

- 723017 **Rotating Clamp**, with holding rod for Flexible Tension Arm 723018, 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.

**Components/Spare Parts** see chapter 16



# Nose

Instruments for Rhinology and Rhinoplasty

416800

417013  
417017

417217

417600

420000

423700

426516  
426620

11 cm

10 cm

11 cm

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

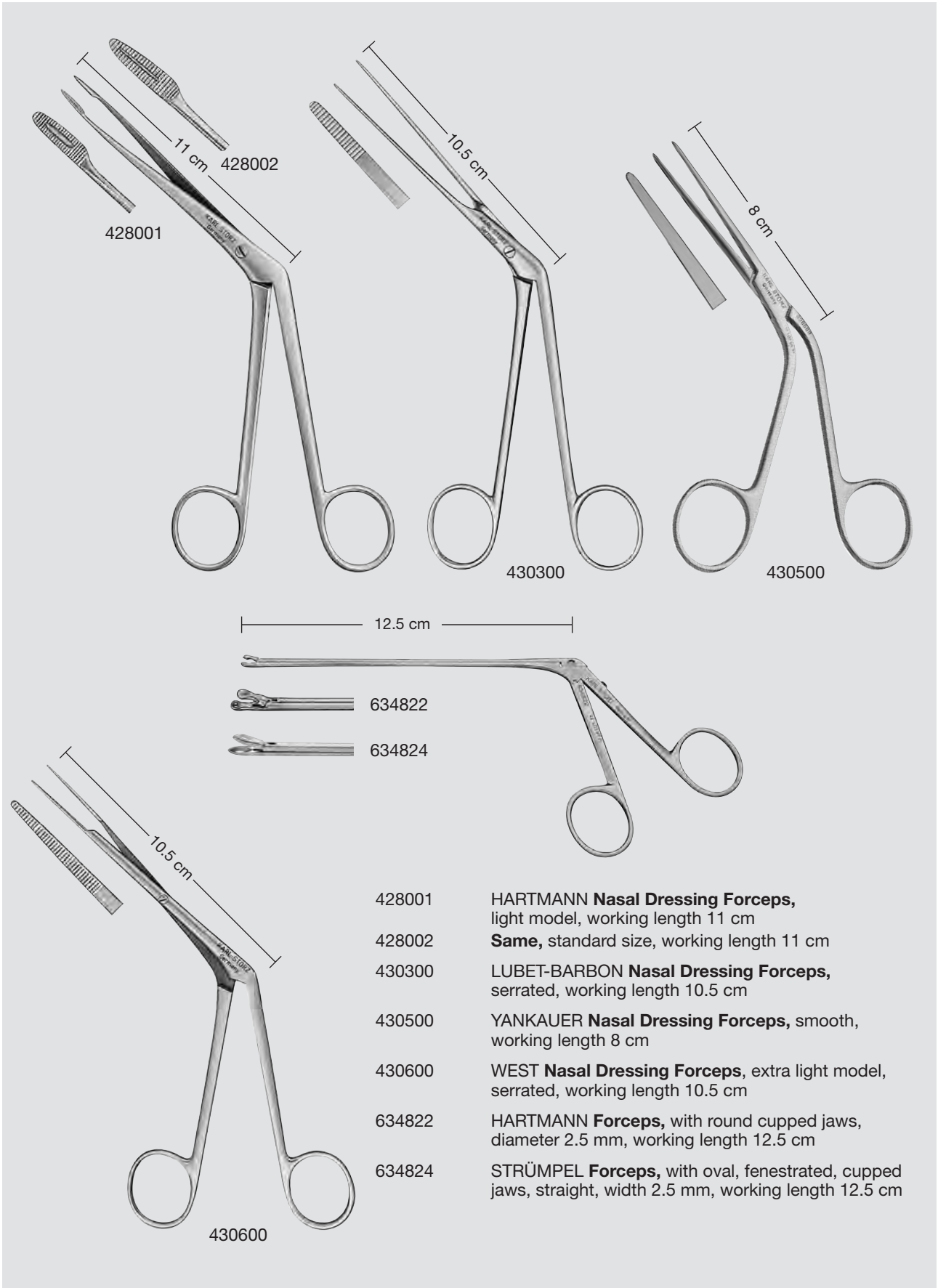
426620 **GRÜNWALD Nasal Dressing Forceps**, bayonet-shaped, length 20 cm

426900 **TRÖLTSCHE Nasal Dressing Forceps**, angular, working length 10 cm

203835 **Suction Tube**, conical, LUER, outer diameter 3.5 mm, working length 11 cm

# Nose

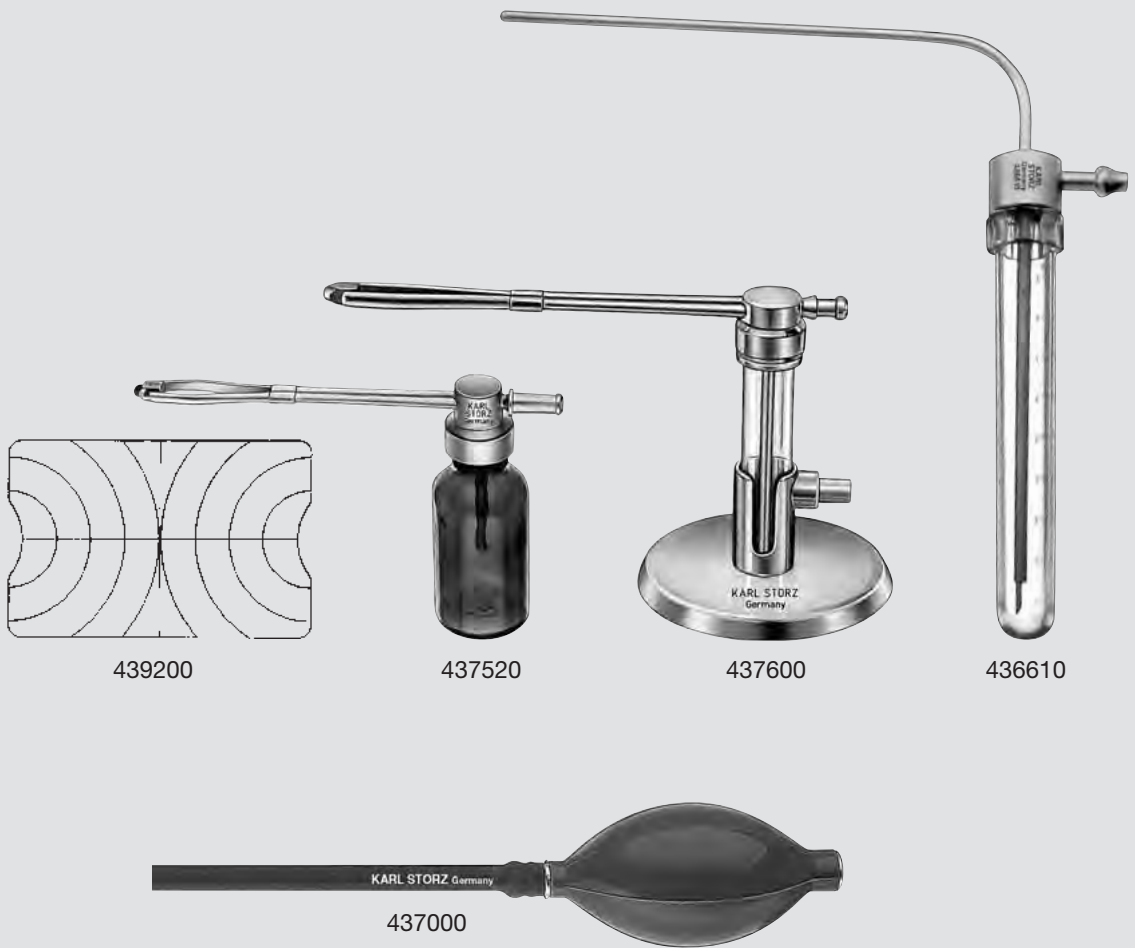
Instruments for Rhinology and Rhinoplasty



- 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

# Nose

Instruments for Rhinology and Rhinoplasty

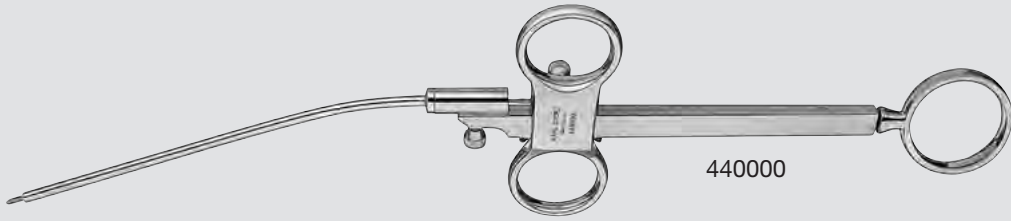


- 436610 **Nasal Atomizer**, straight, including graduated Container 10455 for local anaesthetic, for use with Rubber Bulb 437000
- 437000 **Rubber Bulb**, for Nasal Atomizer 436610, latex-free
- 437520 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb and large bottle
- 437600 DE VILBIS **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

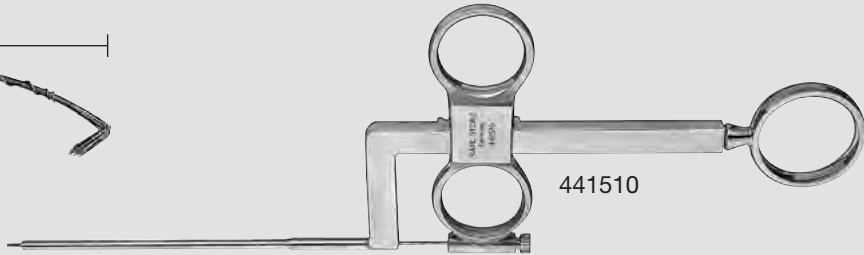
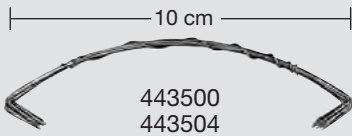
**Components/Spare Parts** see chapter 16

# Nose

Instruments for Rhinology and Rhinoplasty



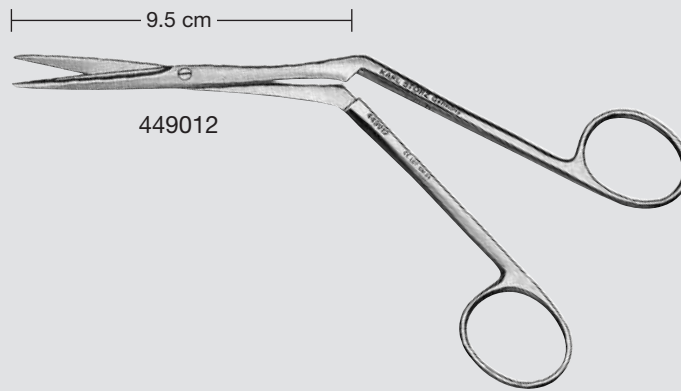
440000 KRAUSE **Nasal Snare**, length 25 cm



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



449012



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

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

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

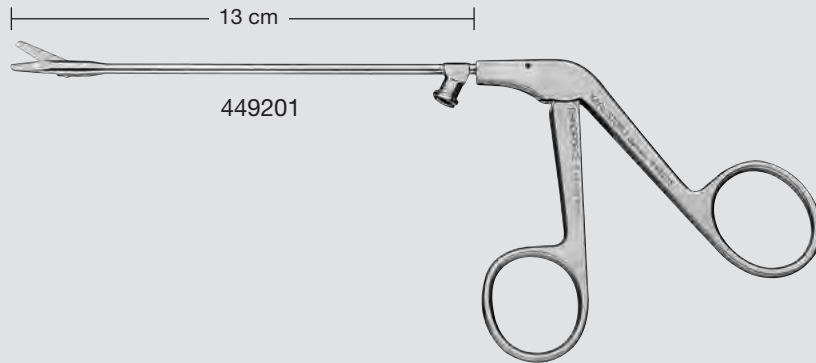
449003 HEYMANN **Nasal Scissors**, large, working length 11 cm

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

**Components/Spare Parts** see chapter 16

# Nose

Instruments for Rhinology and Rhinoplasty



449201



449201

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



449202

**Same**, curved to right



449203

**Same**, curved to left



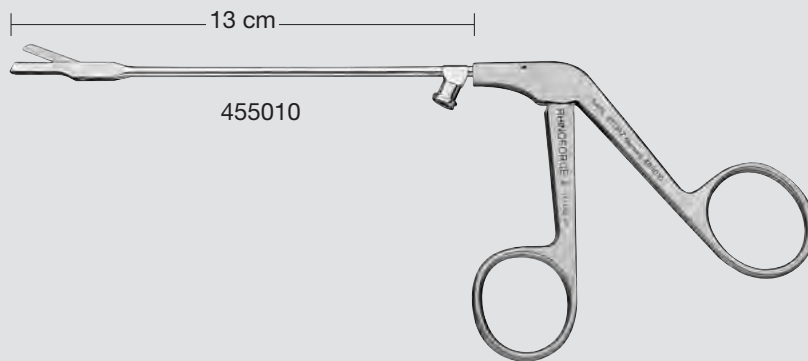
449204

**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

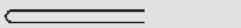


449205

**Same**, curved downwards



455010



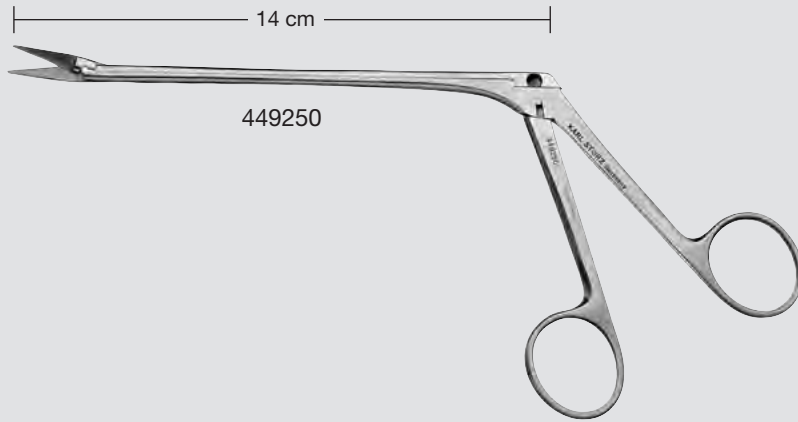
455010

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



# Nose

Instruments for Rhinology and Rhinoplasty



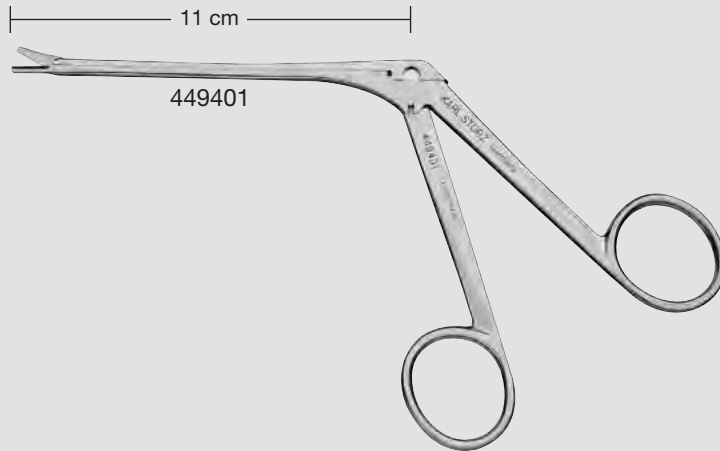
449250

**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**

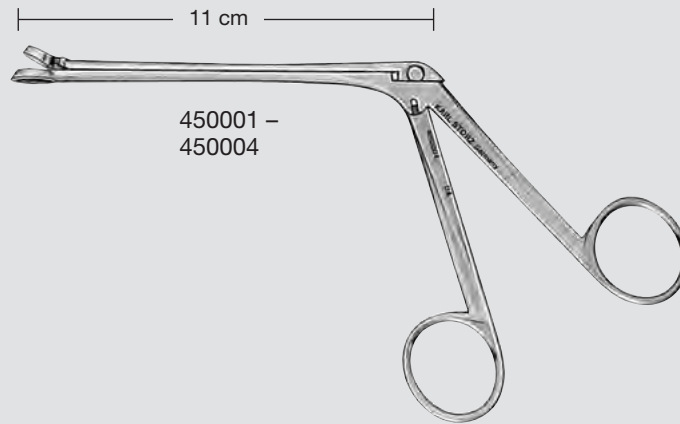


449403

**Same, curved to left**

# Nose

Instruments for Rhinology and Rhinoplasty



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

**GRÜNWARD-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

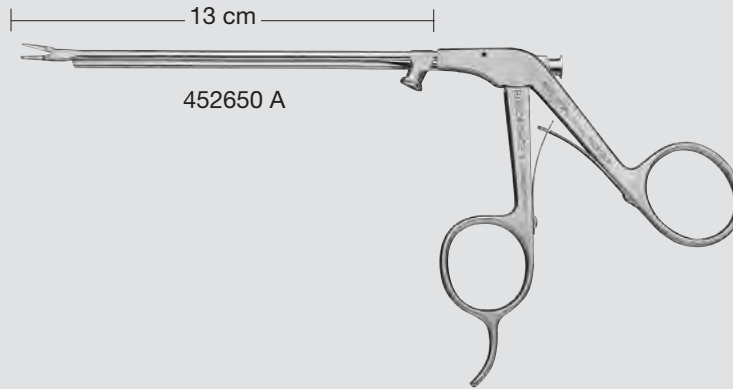
**Same,** size 3

# Nose

Instruments for Rhinology and Rhinoplasty

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



# Nose

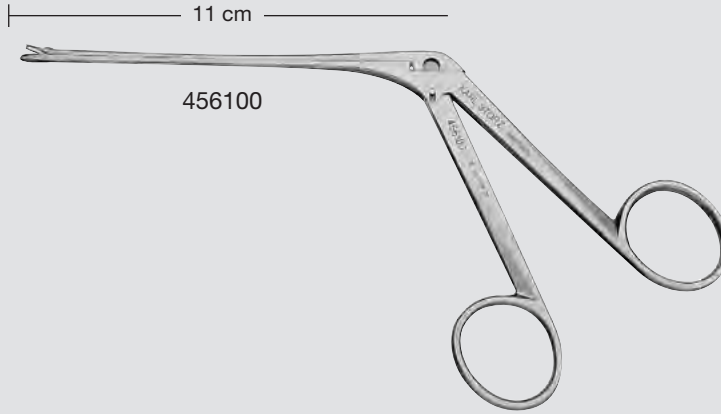
Instruments for Rhinology and Rhinoplasty



	453508	<b>Nasal Forceps</b> , straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
	453508 K	<b>Same</b> , with foreign body basket
	453710	<b>Same</b> , 45° upturned
	453509	<b>Nasal Cutting Forceps</b> , straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm
	453510	<b>Same</b> , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
	453511	<b>Same</b> , robust model, large, bite 3 x 7.5 mm, working length 10.5 cm
	453721	<b>Nasal Cutting Forceps</b> , 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm
	453722	<b>Same</b> , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
	453723	<b>Same</b> , robust model, medium size, bite 2.75 x 6 mm, working length 10.5 cm
	453724	<b>Same</b> , robust model, large, bite 3 x 8 mm, working length 10.5 cm

# Nose

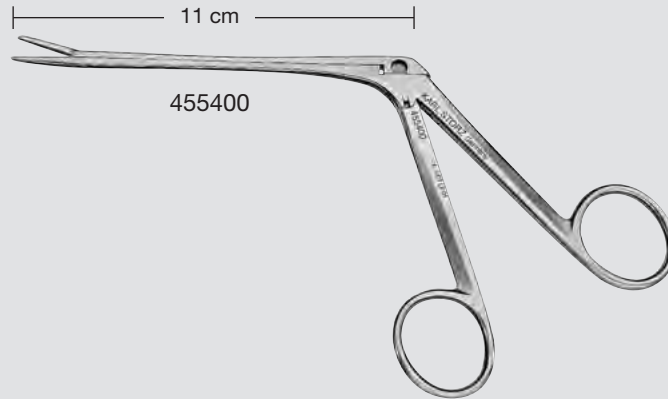
Instruments for Rhinology and Rhinoplasty



	456100	<b>Nasal Forceps</b> , straight, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456101	<b>Same</b> , width 3.5 mm
	456102	<b>Same</b> , width 4.2 mm
	456103	<b>Same</b> , width 4.8 mm
	456111 R	<b>Nasal Forceps</b> , curved to right, through-cutting, tissue-sparing, BLAKESLEY shape, width 3.5 mm, working length 11 cm
	456111 L	<b>Same</b> , curved to left
	456120	<b>Nasal Forceps</b> , 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456121	<b>Same</b> , width 3.5 mm
	456122	<b>Same</b> , width 4.2 mm
	456123	<b>Same</b> , width 4.8 mm

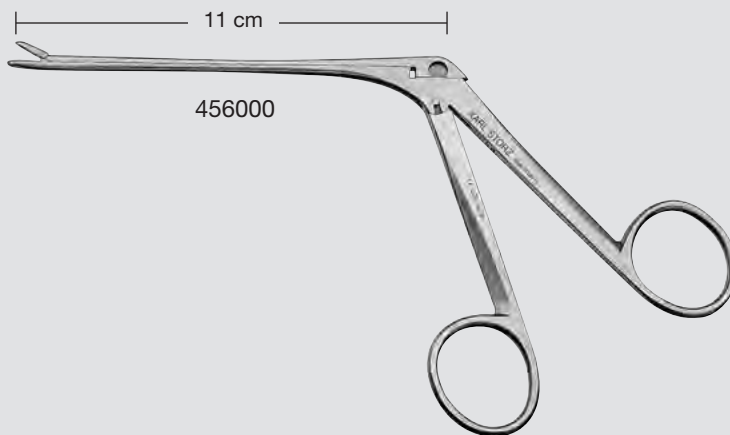
# Nose

Instruments for Rhinology and Rhinoplasty



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

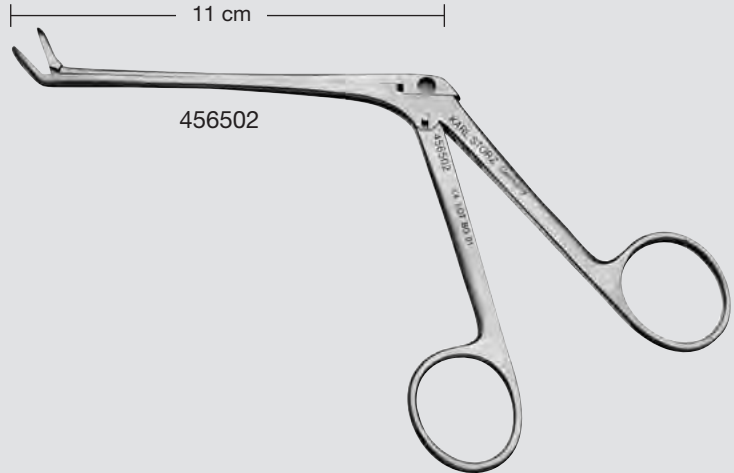


456004

**Same**, size 4

# Nose

Instruments for Rhinology and Rhinoplasty



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

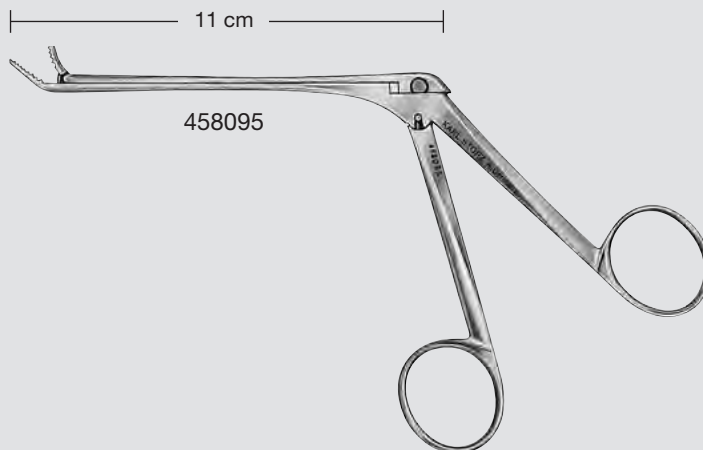


457720

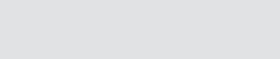
**BLAKESLEY-WIGAND Nasal Forceps,**  
60° upturned, long jaws 6 x 20 mm, rounded tips,  
for grasping polyps and adenoid rests, working  
length 11 cm

# Nose

Instruments for Rhinology and Rhinoplasty



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



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



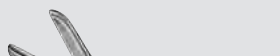
455504 TAKAHASHI **Nasal Forceps**, straight, delicate, working length 12.5 cm



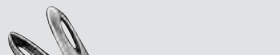
457500 WATSON-WILLIAMS **Nasal Forceps**, 45° upturned, working length 10 cm



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



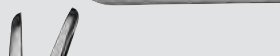
457700 TAKAHASHI **Nasal Forceps**, 30° upturned, cupped jaws 9 x 2.5 mm, working length 10 cm



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



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



457820 **Nasal Forceps**, 90° upturned, with fenestrated spoon jaws, 20 x 4 mm, working length 11 cm



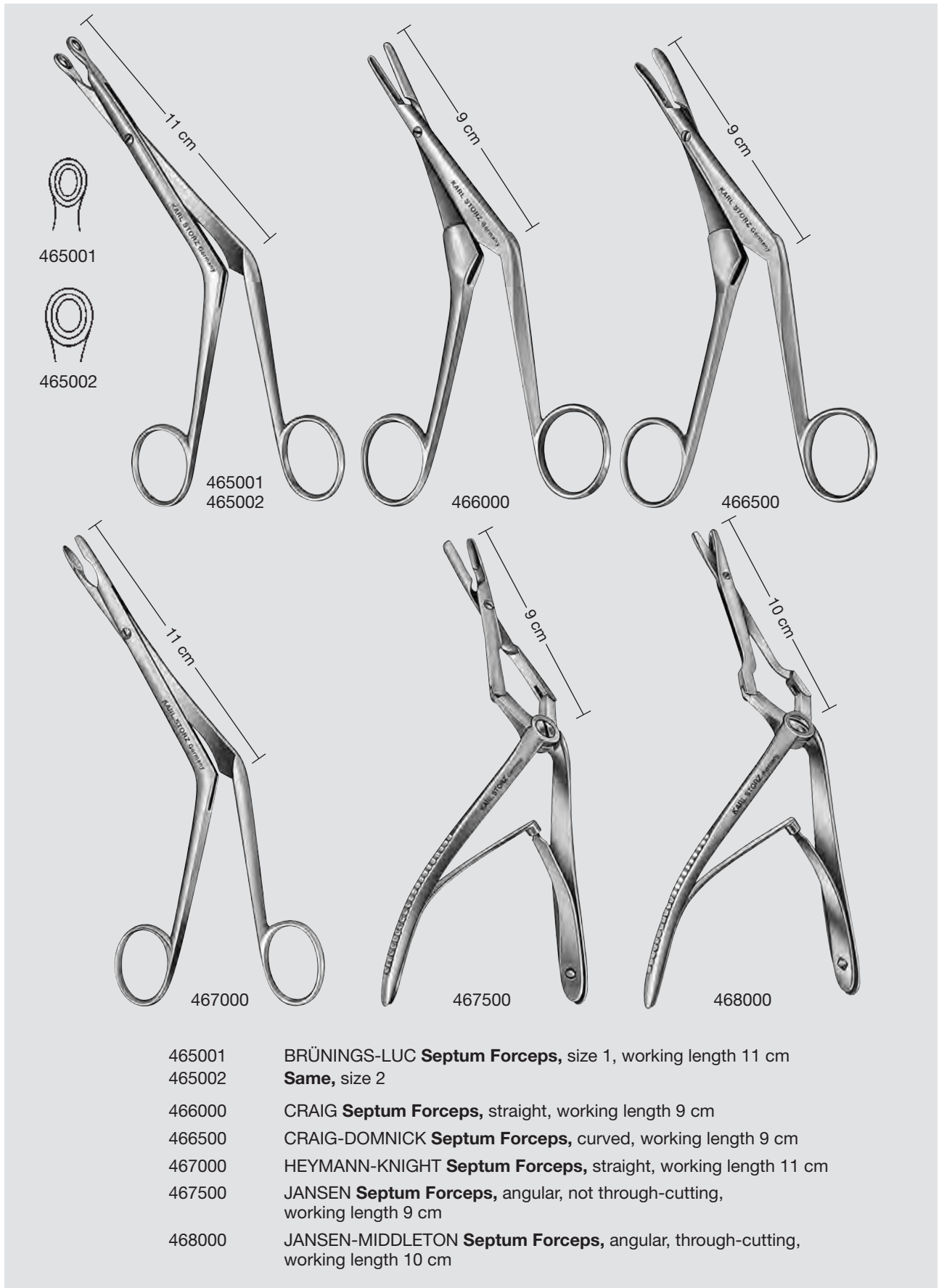
458000 WATSON-WILLIAMS **Nasal Forceps**, straight, with serrated jaws, working length 11 cm



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

# Nose

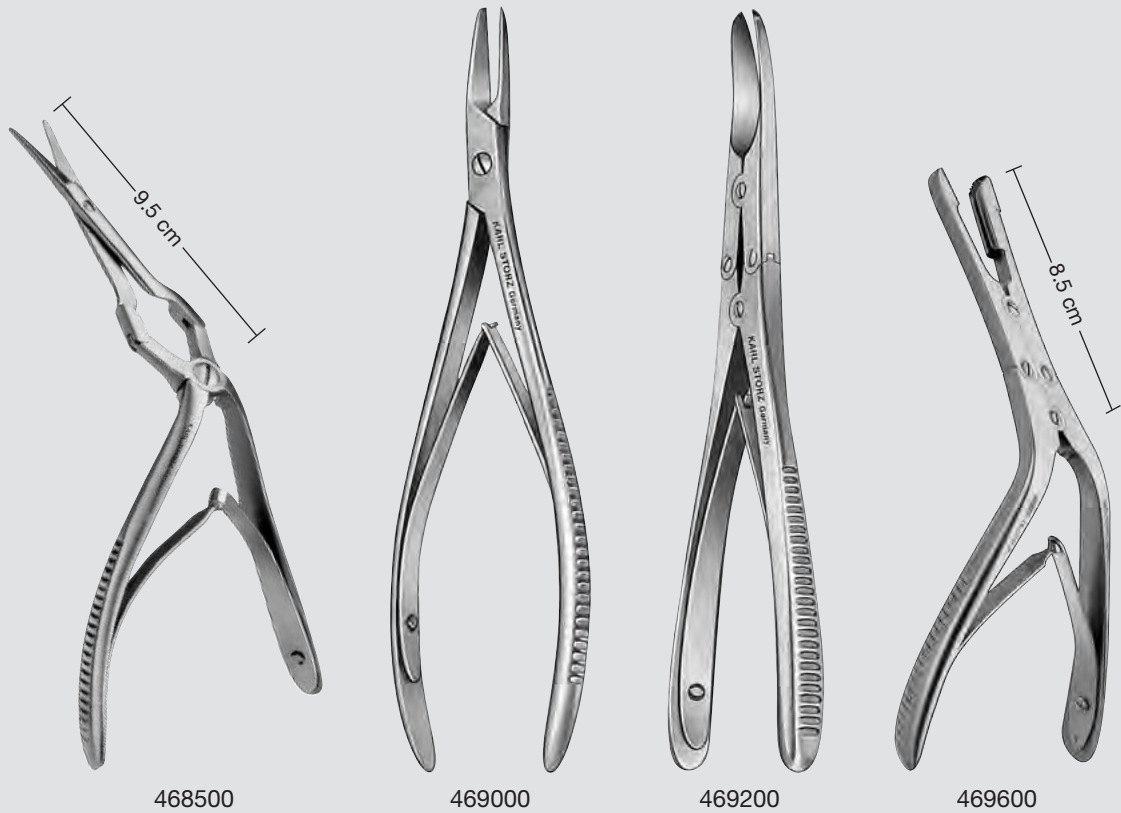
Instruments for Rhinology and Rhinoplasty



- 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

# Nose

Instruments for Rhinology and Rhinoplasty



468500

469000

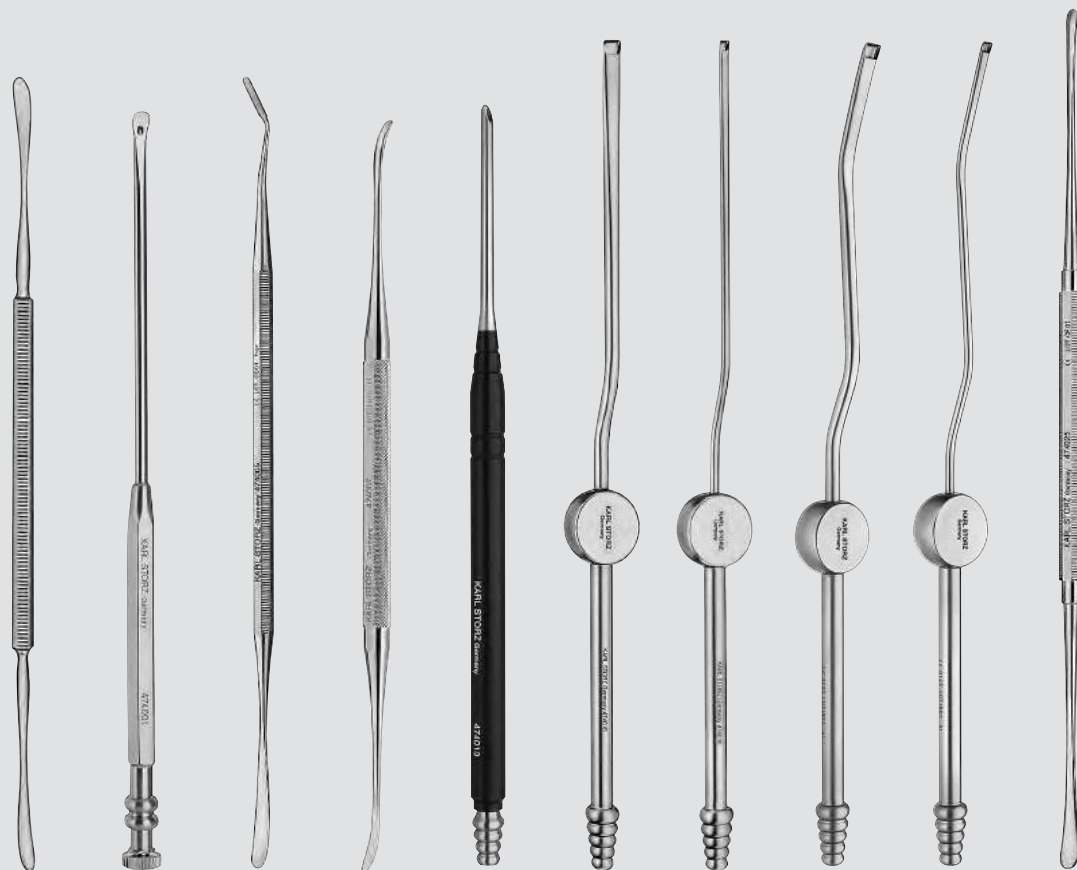
469200

469600

- 468500 BECKER-CAPLAN **Septum Scissors**, double action jaws, serrated, working length 9.5 cm
- 469000 KAZANJIAN **Nasal Hump 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

# Nose

Instruments for Rhinology and Rhinoplasty



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, with scale, 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



# Nose

Instruments for Rhinology and Rhinoplasty



474200



474205



474210

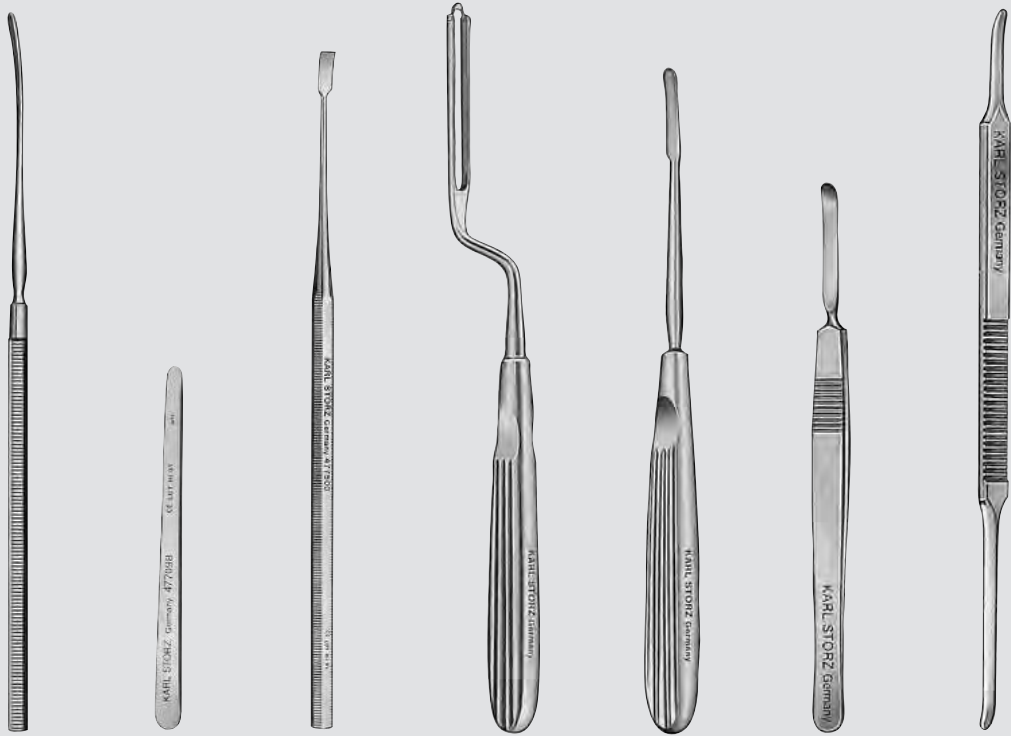


474519

- 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

# Nose

Instruments for Rhinology and Rhinoplasty



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 **Elevator**, slightly curved, length 17.5 cm
- 478303      McKENTY **Elevator**, 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

# 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 Elevator**, 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

# Nose

Instruments for Rhinology and Rhinoplasty

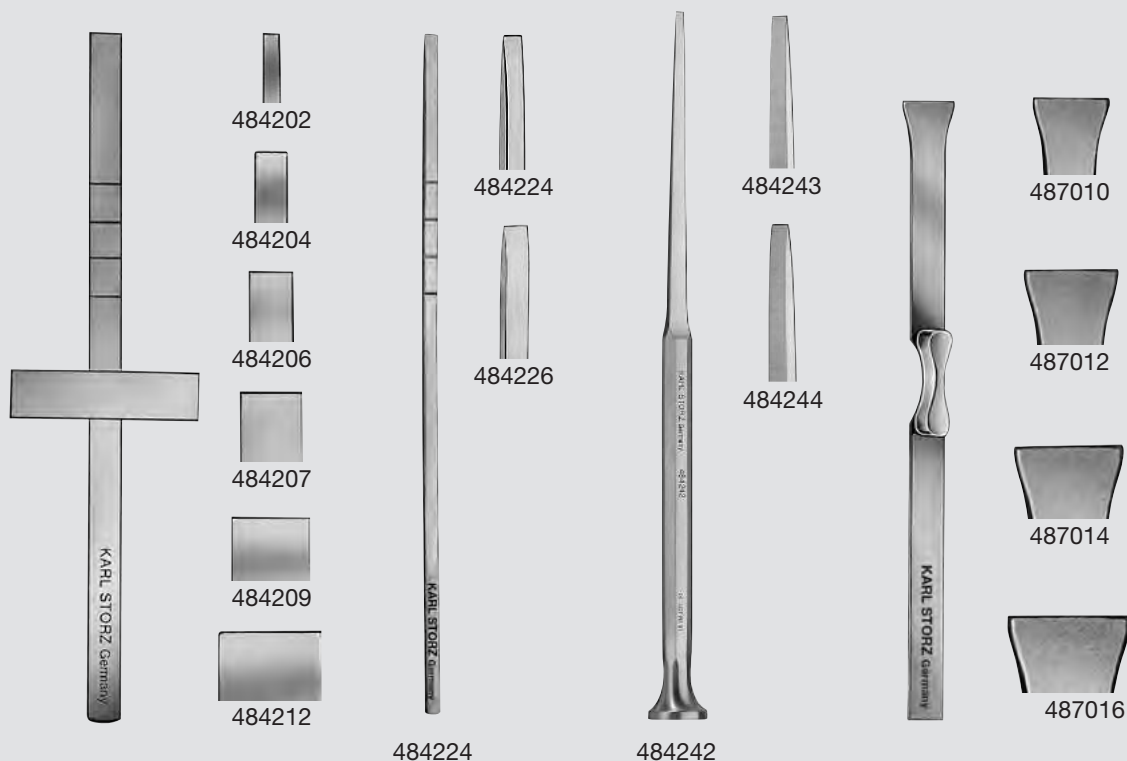


- 174200 COTTLE **Metal Mallet**, length 18 cm
- 174420 **Metal Mallet**, small model, diameter 20 mm, length 19.5 cm
- 174426 **Metal Mallet**, medium model, diameter 26 mm, length 19.5 cm
- 174430 **Metal Mallet**, large model, diameter 30 mm, length 19.5 cm
- 174700 **Metal Mallet**, with NYLON replacement,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

**Components/Spare Parts** see chapter 16

# Nose

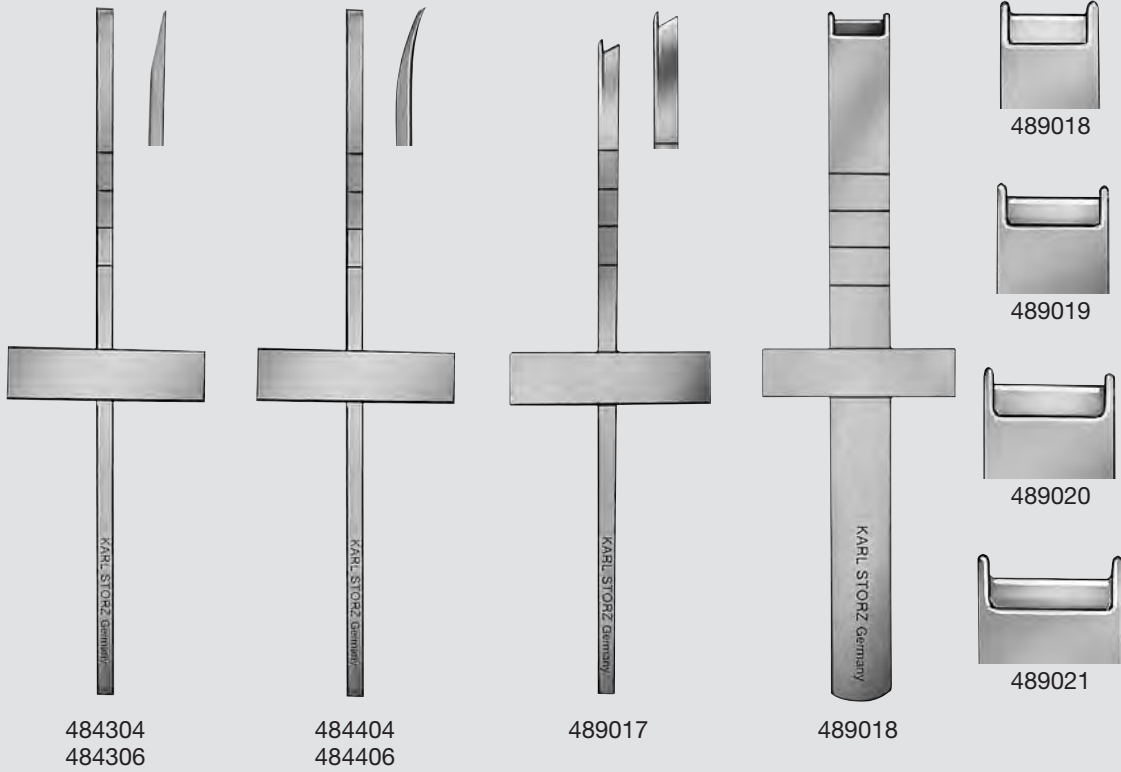
Instruments for Rhinology and Rhinoplasty



- 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**, double-edged grinding, straight, 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 10 mm, length 16.5 cm
- 487012 **Same**, width 12 mm
- 487014 **Same**, width 14 mm
- 487016 **Same**, width 16 mm

# Nose

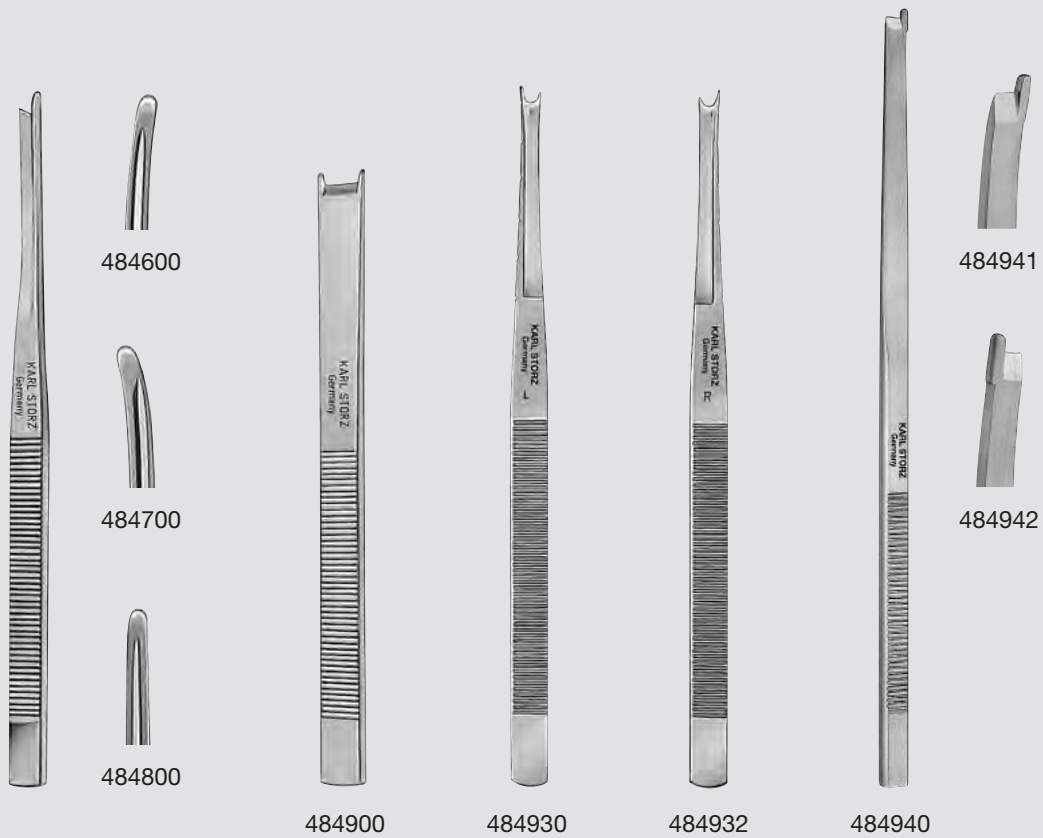
Instruments for Rhinology and Rhinoplasty



- 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

# Nose

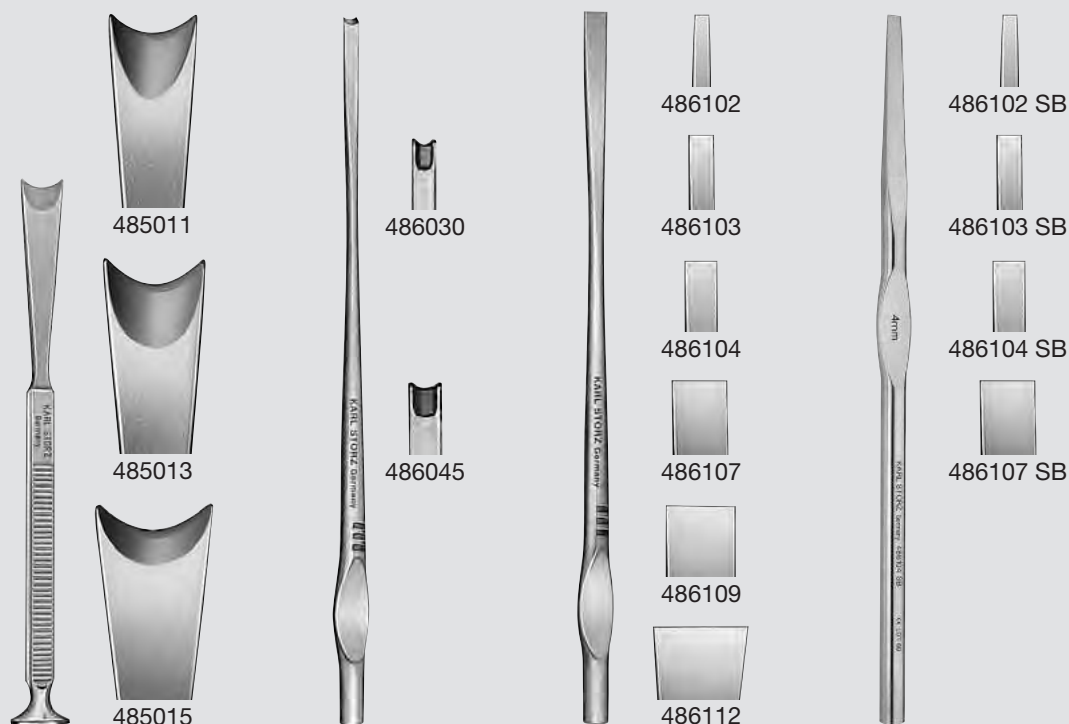
Instruments for Rhinology and Rhinoplasty



- 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

# Nose

Instruments for Rhinology and Rhinoplasty

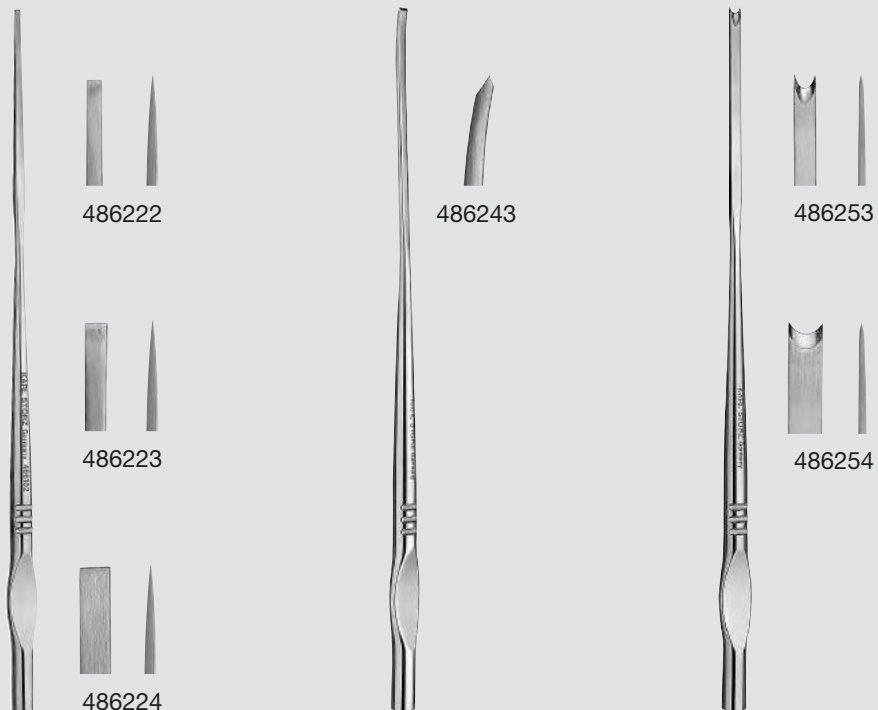


- 485011 McINDOE **Chisel**, hollow, width 11 mm, length 14.5 cm
- 485013 **Same**, width 13 mm
- 485015 **Same**, width 15 mm
- 486030 WALTER **Gouge**, hollow, width 3 mm, length 19 cm
- 486045 **Same**, width 4.5 mm
- 486102 WALTER **Osteotome**, flat, double-edged grinding, width 2 mm, length 19 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



# Nose

Instruments for Rhinology and Rhinoplasty



- 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

# Nose

Instruments for Rhinology and Rhinoplasty



492900



493000



494500



496800  
496801

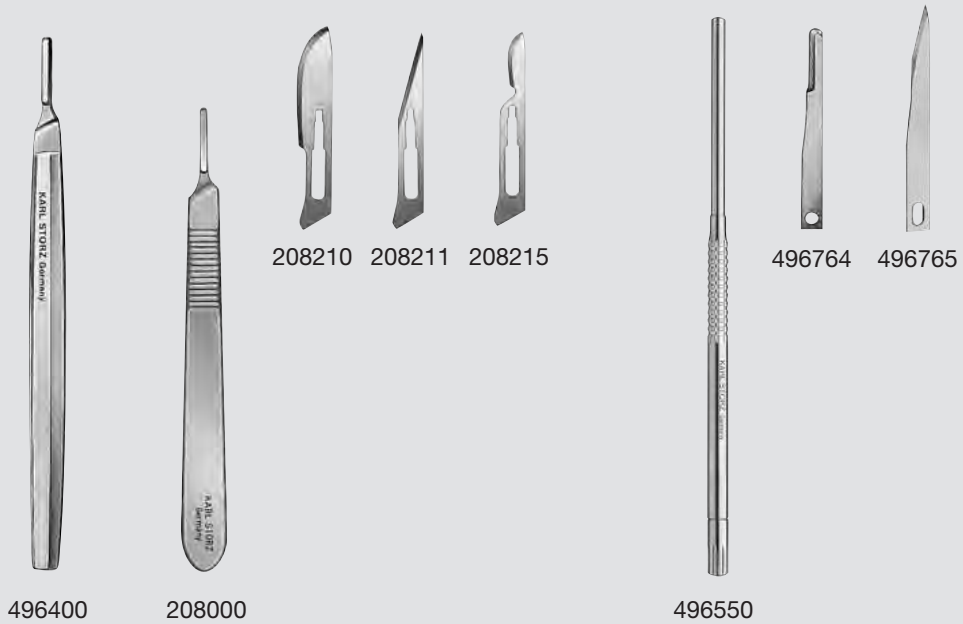


496900

- 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

# Nose

Instruments for Rhinology and Rhinoplasty



- 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 24
- 496765      **Same**, Fig. 65, pointed

# Nose

Instruments for Rhinology and Rhinoplasty

505200

499001 499101 499201 505100 505210

499111 499202 505211

499205 505213 505230

499207 499210 499212

489028 489033 498000 498400 498401 499001 499111 499101 499201 – 499212 505000 505100 505210 – 505213 505900

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**, 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-offs and scale, length 10 cm

# Nose

Instruments for Rhinology and Rhinoplasty

<p>505600</p> <p>505610</p> <p>505700</p> <p>505800</p> <p>505805</p> <p>505806</p>	<p>506000</p> <p>506010</p> <p>506020</p>	<p>505600 SENN <b>Retractor</b>, double-ended, blunt, length 15 cm</p> <p>505610 SENN-MÜLLER <b>Retractor</b>, double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm</p> <p>505700 COTTLE <b>Knife Guide and Retractor</b>, one side with two-pronged nostril retractor, other side with flat retractor, with duct for guide of cut, length 19 cm</p> <p>505800 NEIVERT <b>Knife Guide and Retractor</b>, made of wire, one side with nostril retractor, other side with flat retractor, length 18 cm</p> <p>505805 RETTINGER-NEIVERT <b>Knife Guide and Retractor</b>, made of wire, one side with nostril retractor, width 13 mm, other side with flat retractor, with duct for guide of cut, length 18 cm</p> <p>505806 <b>Same</b>, width 17 mm</p> <p>506000 WALTER <b>Nasal Retractor</b>, 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</p> <p>506010 FULEIHAN <b>Nasal Retractor</b>, blade oval fenestrated, width of retractor blade 12 mm, length of retractor blade 53 mm, length 10 cm</p> <p>506020 RETTINGER <b>Nasal Retractor</b>, width of retractor blade 11.5 mm, length of retractor blade 45 mm, with flat handle, length 10 cm</p> <p>506400 AUFRICHT <b>Nasal Retractor</b>, width of retractor blade 8 mm, length of retractor blade 40 mm, length 16.5 cm</p> <p>506496 <b>Same</b>, with fiber optic light carrier</p>
<p>506400</p> <p>506496</p>	<p>506496</p>	

**Components/Spare Parts** see chapter 16

3-99s

# Nose

Instruments for Rhinology and Rhinoplasty

## “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 HEYMANN **Nasal Scissors**, medium size (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

# Nose

Instruments for Rhinology and Rhinoplasty



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

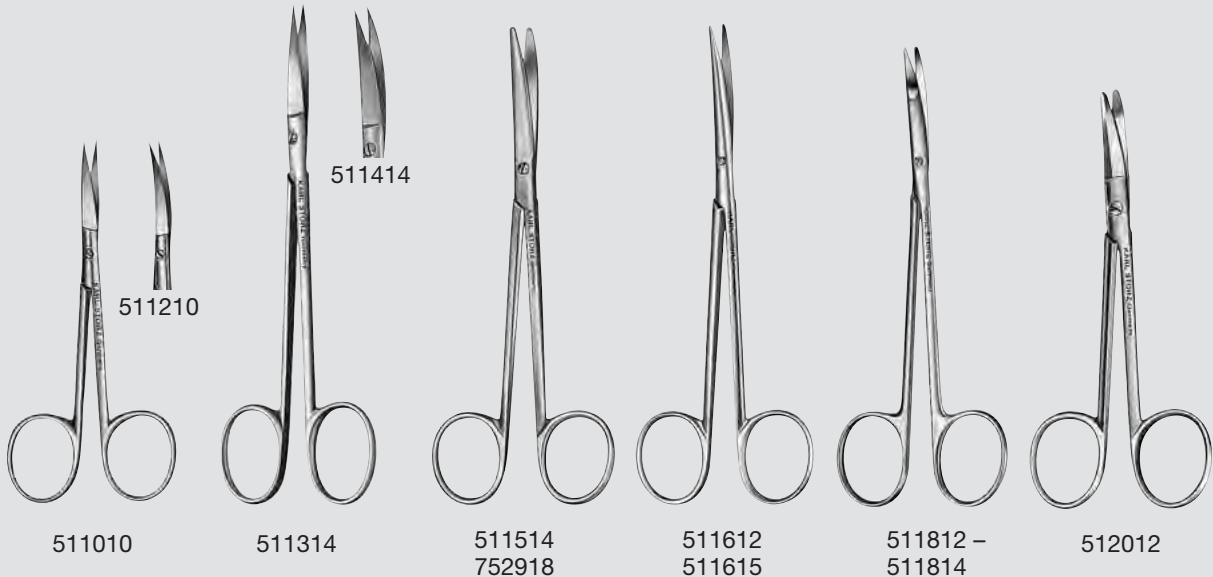
513410 DST **Same**, with titanium nitride coating, color code: copper

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

# Nose

Instruments for Rhinology and Rhinoplasty

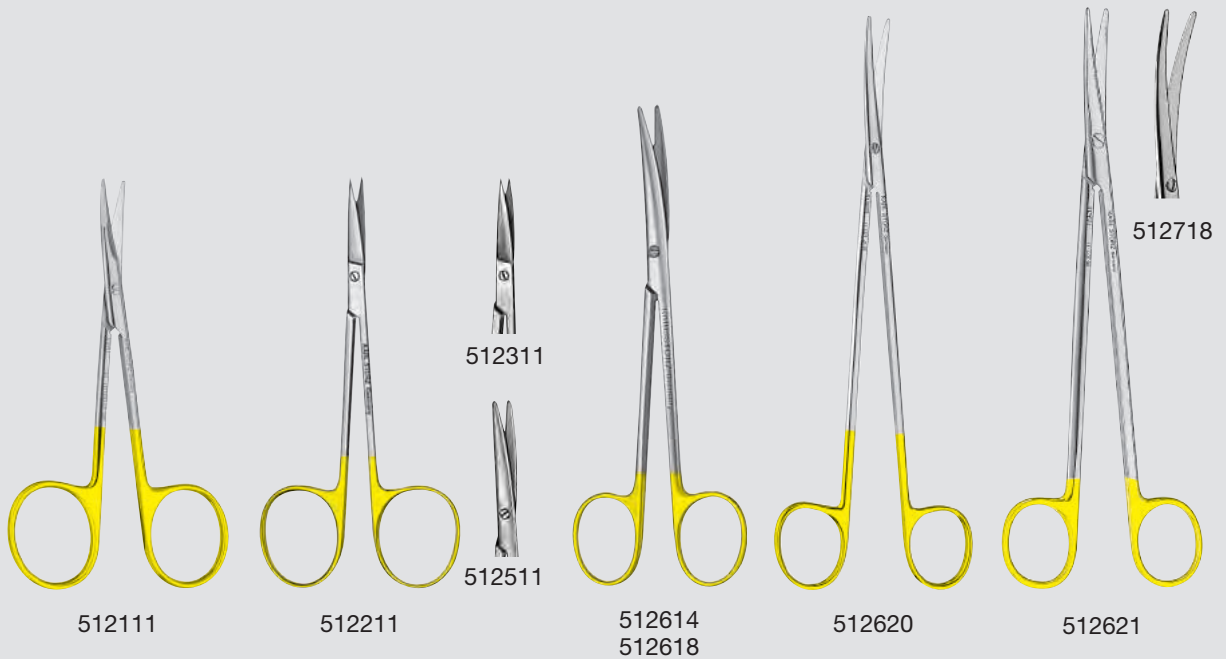


- |        |  |
|--------|--|
| 511010 | <b>Scissors</b> , extra delicate, straight, length 10 cm               |
| 511210 | <b>Same</b> , curved   |
| 511314 | <b>JOSEPH Scissors</b> , straight, length 14 cm                        |
| 511414 | <b>Same</b> , curved   |
| 511514 | <b>METZENBAUM Scissors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



# Nose

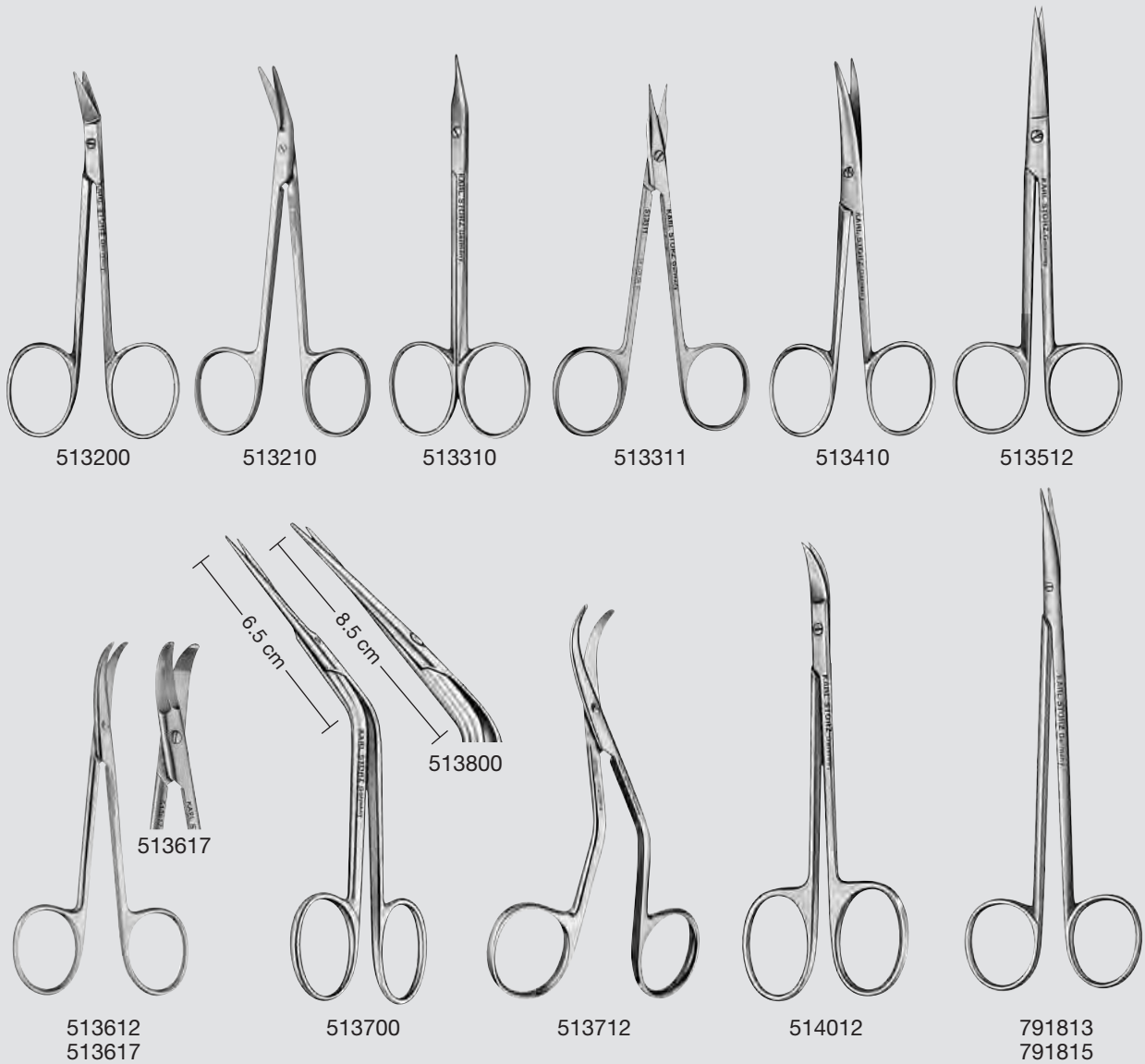
Instruments for Rhinology and Rhinoplasty



- 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, tungsten carbide inserts, curved, length 20 cm
- 512621 **Same**, robust model
- 512718 METZENBAUM **Scissors**, heavy model, with tungsten carbide inserts, curved, length 18 cm

# Nose

Instruments for Rhinology and Rhinoplasty

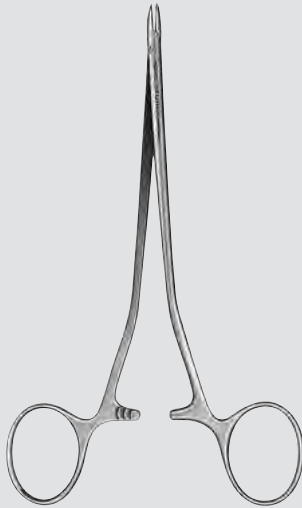


- 513200 **WALTER Scissors**, angled, length 10 cm
- 513210 **Scissors**, angled, blunt, length 10 cm
- 513310 **STEVENS Scissors**, curved, length 10.5 cm
- 513311 **Same**, straight
- 513410 **COTTLE Scissors**, curved, length 10.5 cm
- 513512 **Scissors**, straight, length 12 cm
- 513612 **FOMON Lower 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
- 513712 **FOMON Lower Lateral Scissors**, S-shaped, strongly curved blades, handles 45° angled downwards, length 11.5 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

# Nose

Instruments for Rhinology and Rhinoplasty



515017



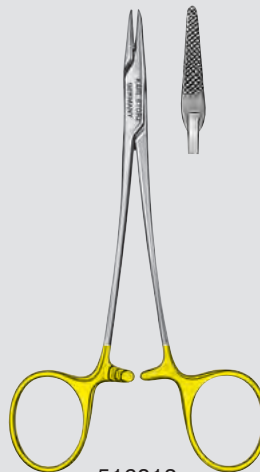
515217



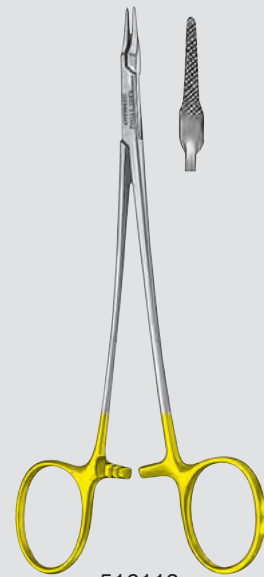
515515



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

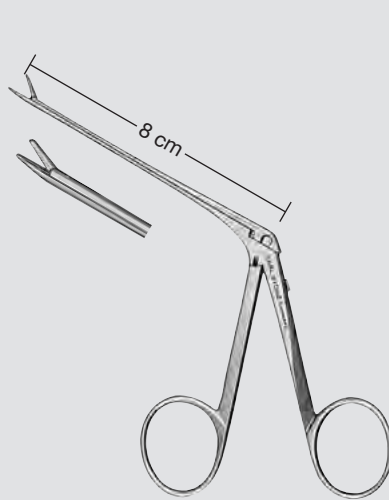
516113 **RYDER Needle Holder**, tungsten carbide inserts, extra delicate, length 13 cm

516115 **Same**, length 15 cm

516117 **Same**, length 17 cm

# Nose

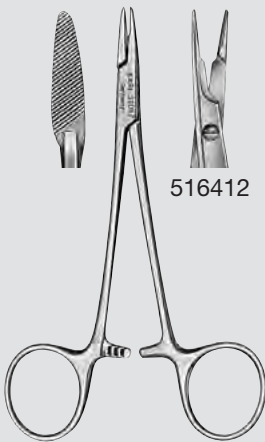
Instruments for Rhinology and Rhinoplasty



517000



517200



516513

516412



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

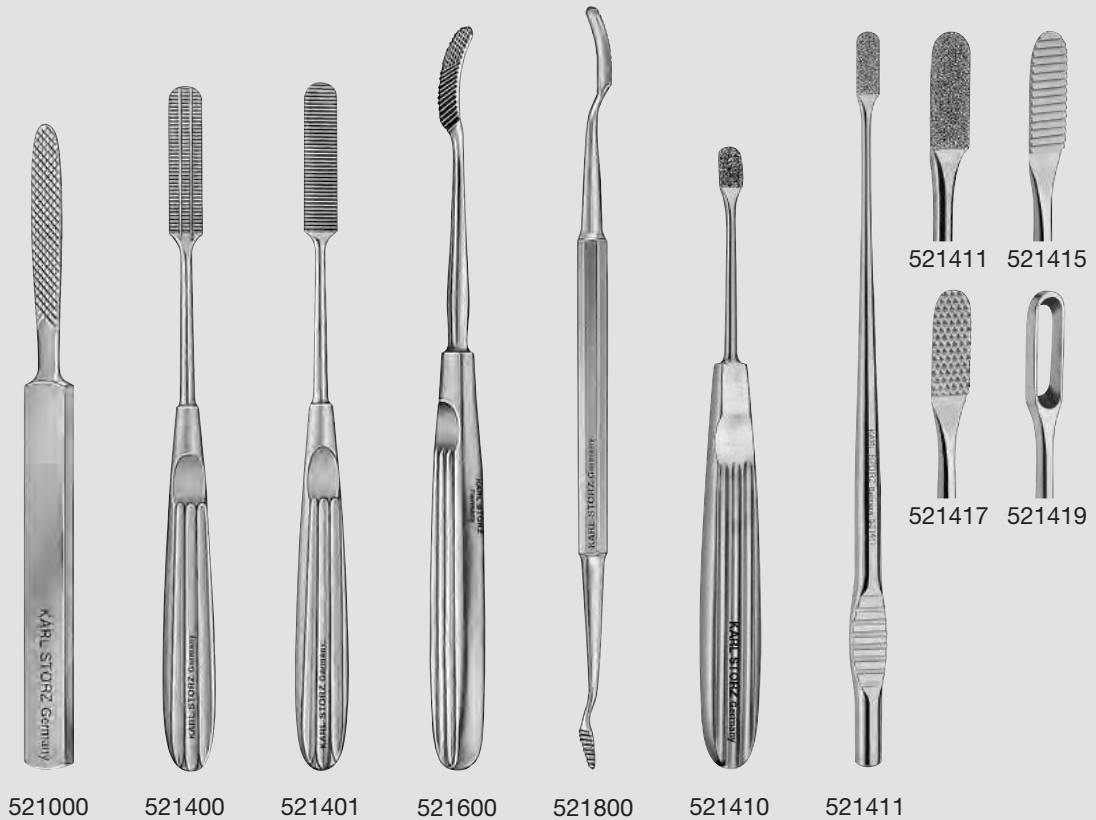
- 517200 **Needle Holder**, intranasal, handle angled 30°, tungsten carbide inserts, working length 12.5 cm

- 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

# Nose

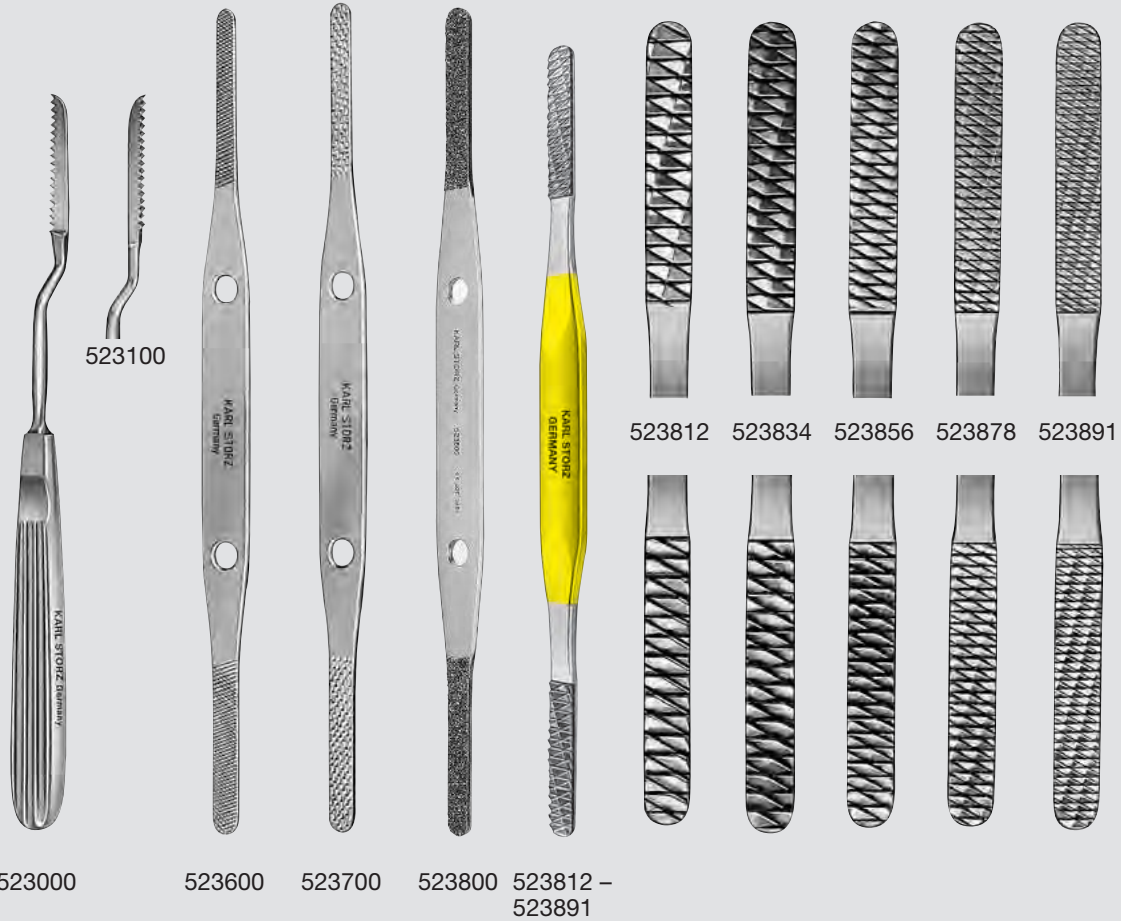
Instruments for Rhinology and Rhinoplasty



- 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 **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
- 521415 BEHRBOHM **Rasp**, coarse teeth, cuts with traction, 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
- 521419 BEHRBOHM **Curette**, 6 x 15 mm, length 18 cm

# Nose

Instruments for Rhinology and Rhinoplasty



- 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 **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

# Nose

Instruments for Rhinology and Rhinoplasty



523900



523905



523913



523910  
523920



524110 – 524310



524302

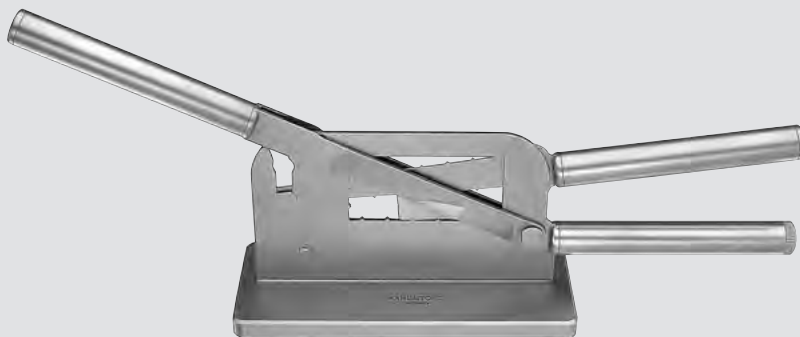
- 523900 COTTLE **Bone Crusher**, with clip, crusher size 5 x 1.5 cm
- NEW** 523905 **Bone Crusher**, large model, with clip, crusher size 5 x 3 cm
- 523910 TOLSDORFF **Bone and Cartilage Crusher**, round, to press pieces of bone up to 4 cm evenly extended in all directions
- 523920 RETTINGER-TOLSDORFF **Same**, with coarse surface
- 523913 **Metal Tray**, to prepare crushed pieces for reimplantation in the nose, 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

# SCHMÄL CartCut® Cartilage Cutter <sup>NEW</sup>

**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.

**Components/Spare Parts** see chapter 16

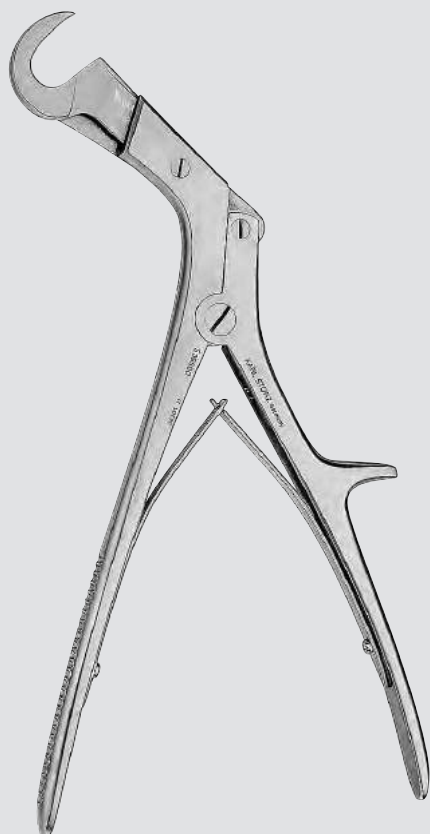
**For optimal storage and processing Tray 39502 ZH and Silicon Mat 39100 SH are recommended.**

**Further accessories for cleaning and sterilization see catalog ENDOPROTECT1**



# Nose

## Instruments for Cartilage Removal



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 **Elevator**, for adults, curved to right, length 17.5 cm
- 539521 **Same**, curved to left

# Nose

Instruments for Rhinology and Rhinoplasty



525500  
525505



525510



525520



525800

- 525500 **Rule**, stainless steel, flexible, length 20 cm
- 525505 **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

**Components/Spare Parts** see chapter 16

# Nose

Instruments for Rhinology and Rhinoplasty



528800



528860

528800 WALSHAM **Septum Straightening Forceps**,  
dismantling, length 21 cm

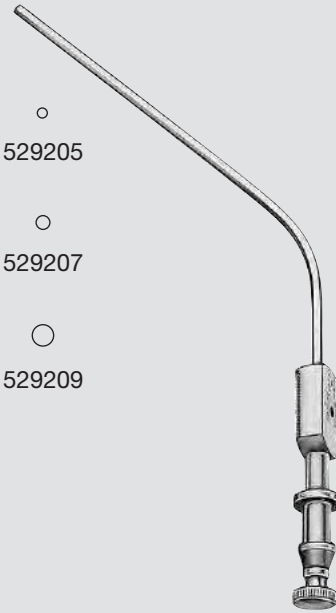
528860 ASCH **Septum Straightening Forceps**,  
angular, length 22 cm

# Nose

Instruments for Rhinology and Rhinoplasty



529105



529205

529207

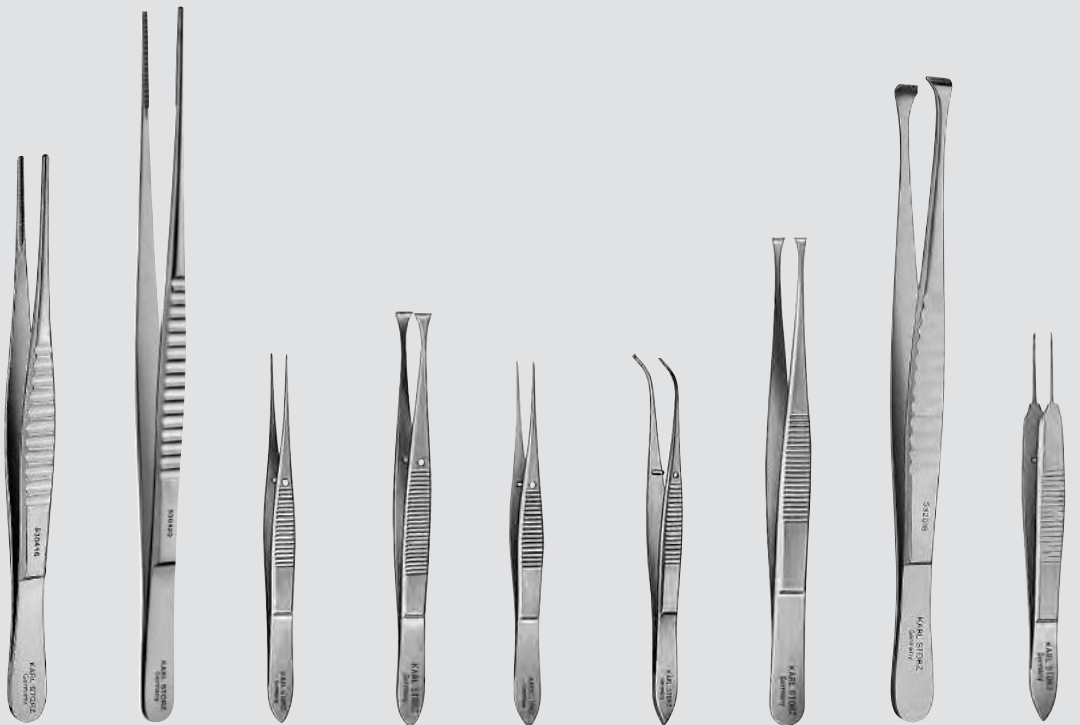
529209

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

# Nose

Instruments for Rhinology and Rhinoplasty



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

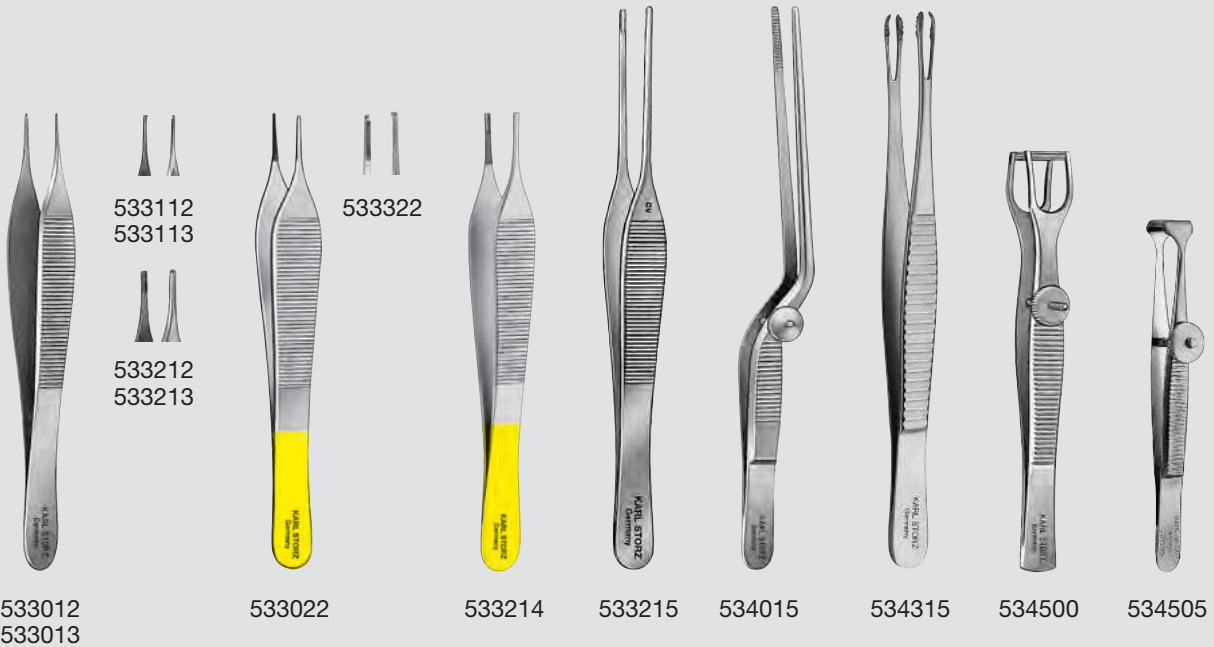
532013 **Tissue Forceps**, straight, with 7 x 8 fine teeth, length 13 cm

**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

# Nose

Instruments for Rhinology and Rhinoplasty



- 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

# Nose

Rhinoplasty – Aesthetic Nasal Plastic Surgery

## BERGHAUS Recommended Set



488002



488003



488004



488105



488010



488012



488014



488018



488022



488023



488024



174200



488030



231000

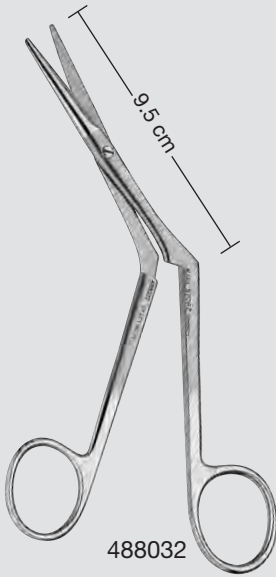
- 488002 COTTLE **Nasal Speculum**, extra slender, without set screw, blade length 35 mm, length 13 cm
- 488003 **Same**, blade length 55 mm
- 488004 **Same**, blade length 75 mm
- 488105 HALLE-TIECK **Nasal Speculum**, for infants, length 13 cm
- 488010 RUBIN **Osteotome**, flat, straight, double-edged 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

# Nose

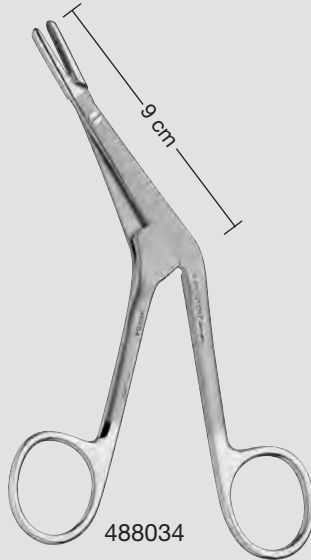
Rhinoplasty – Aesthetic Nasal Plastic Surgery

**BERGHAUS Recommended Set**

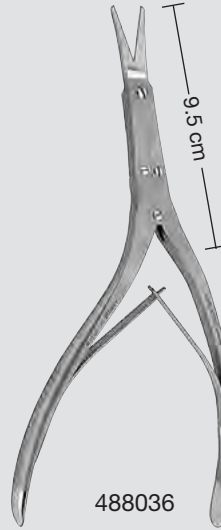
**Instruments with special matt finish and high-gloss polished working tips**



488032



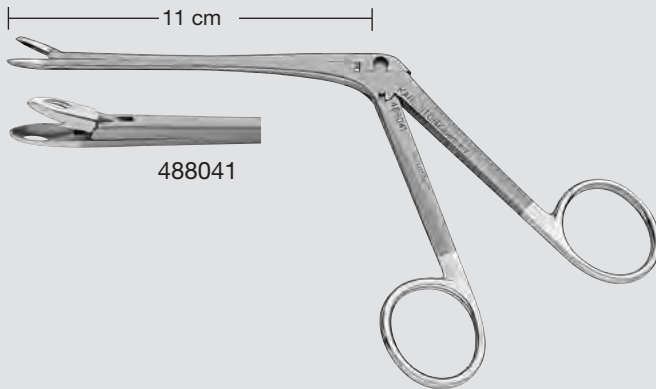
488034



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

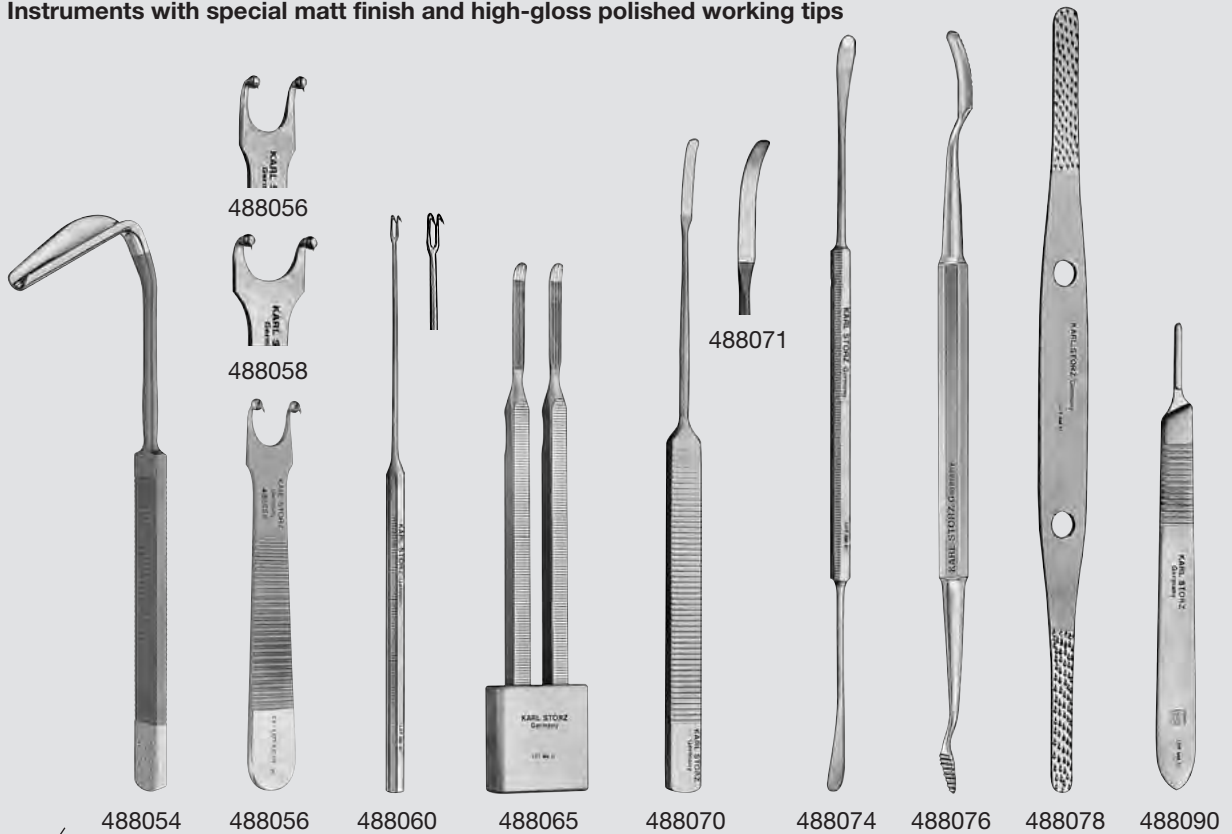


# Nose

Rhinoplasty – Aesthetic Nasal Plastic Surgery

## BERGHAUS Recommended Set

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

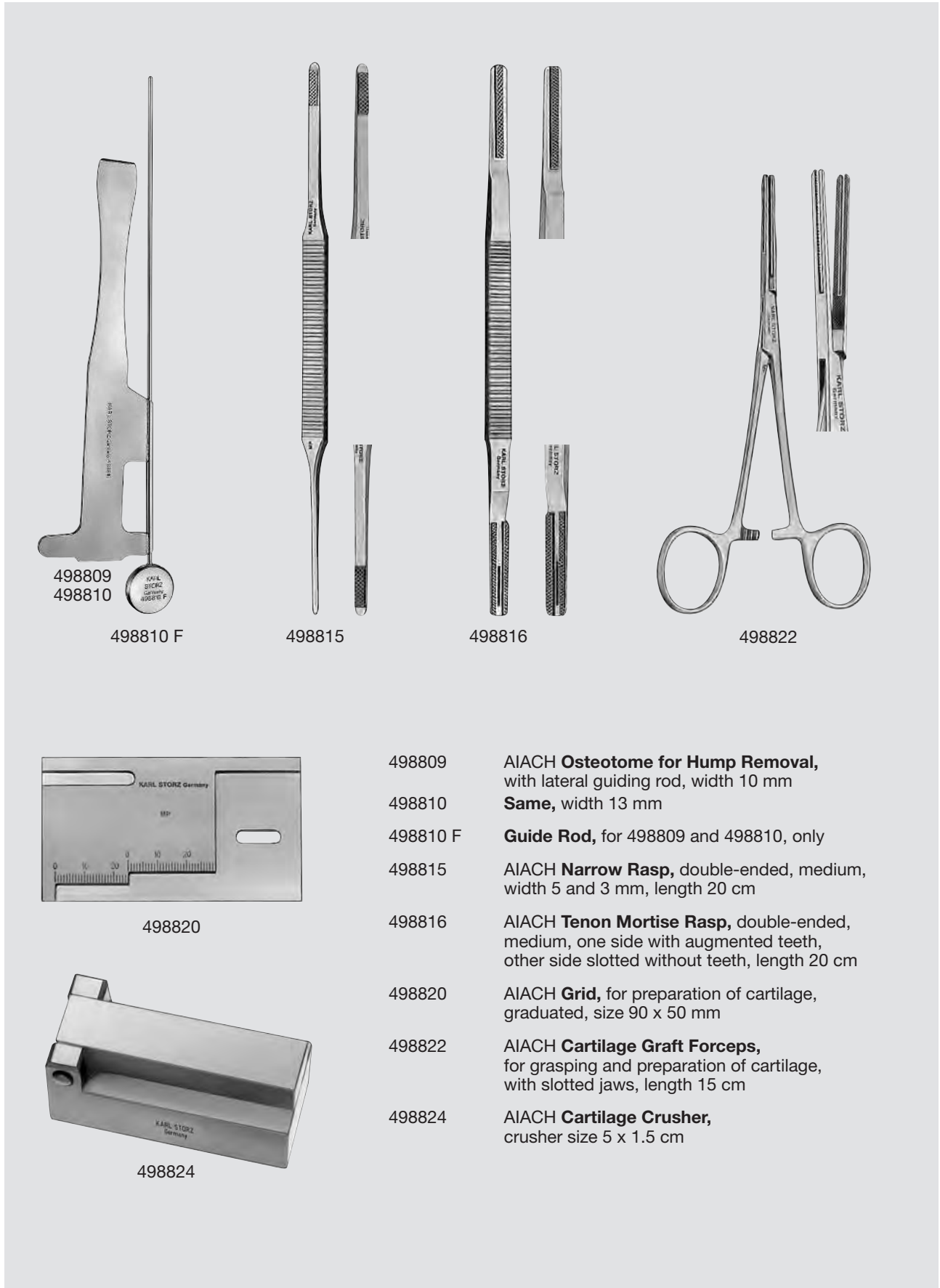


- 488054 AUFRICHT **Nasal Retractor**, with side protector, length 16.5 cm
- 488056 KILNER **Ala Retractor**, two sharp points with button, width 10 mm, length 8.5 cm
- 488058 **Same**, width 13 mm
- 488060 **Ala Double Hook**, with octagonal handle, with 2 sharp points, strongly curved, width 2 mm, 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 8 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

- 488084
- 488085
- 488086

# Nose

## Instruments for Cartilage Removal



498809  
498810  
498810 F

498815

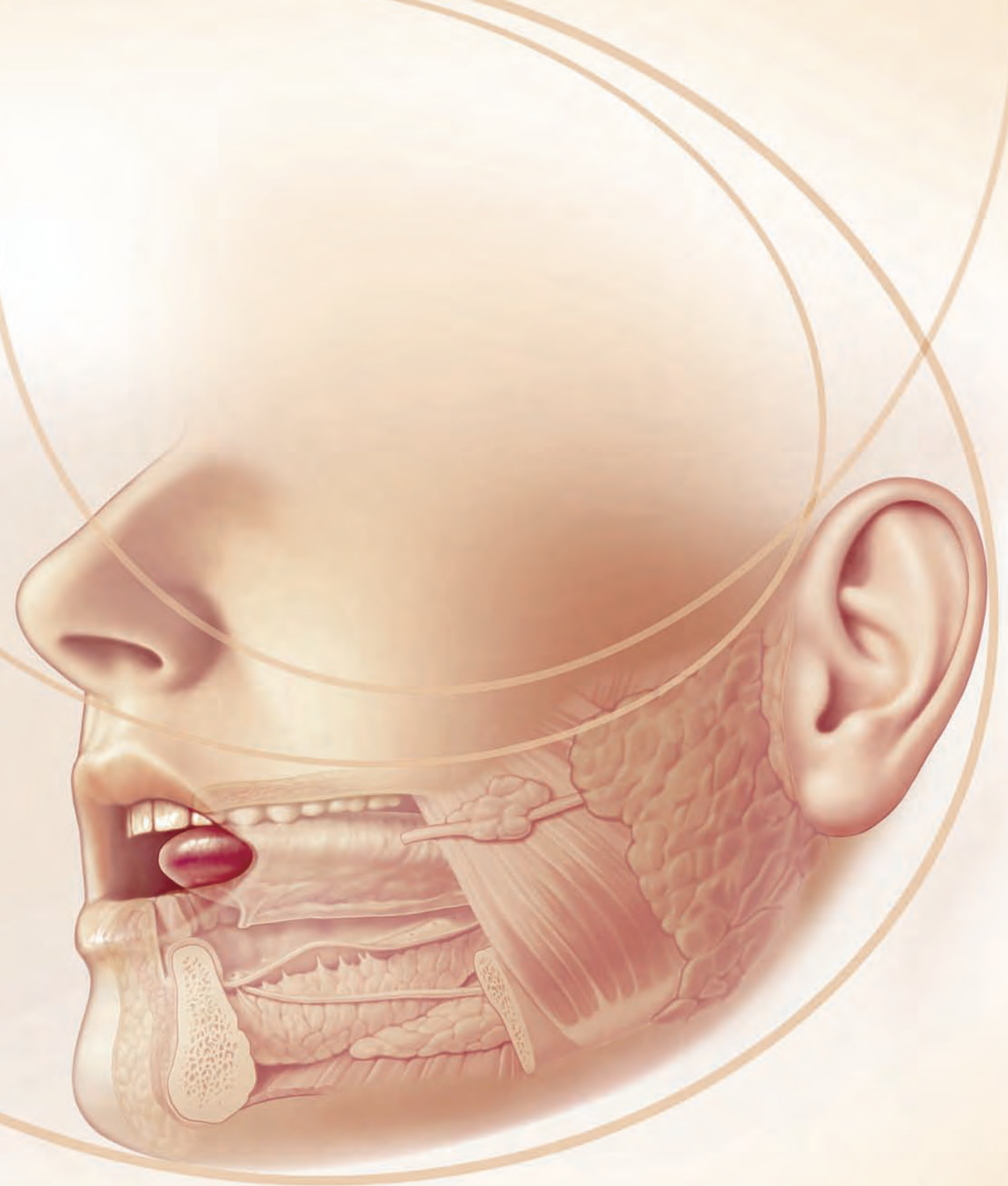
498816

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



**BIPOLAR AND UNIPOLAR  
COAGULATION**



# TAKE APART® Bipolar Forceps <sup>NEW</sup>

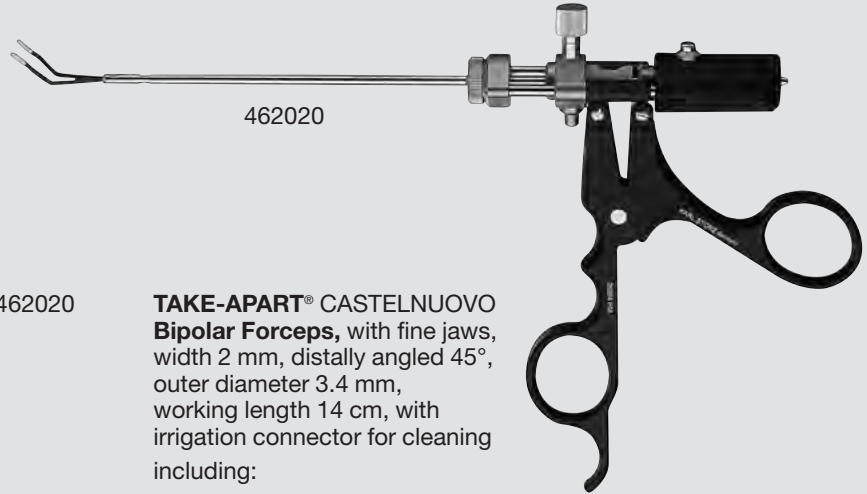
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



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

**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:

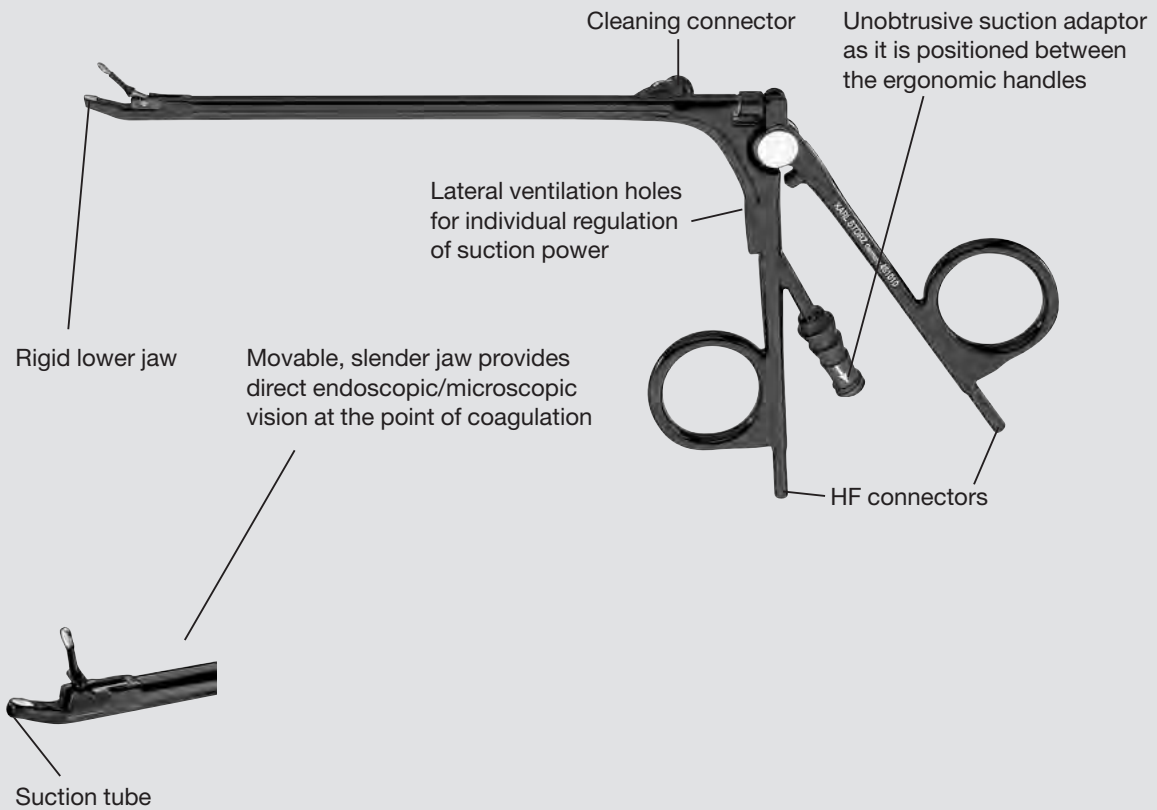
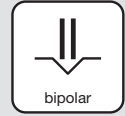
- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



# STAMMBERGER Bipolar Suction Forceps

## 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



# STAMMBERGER Bipolar Suction Forceps



**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

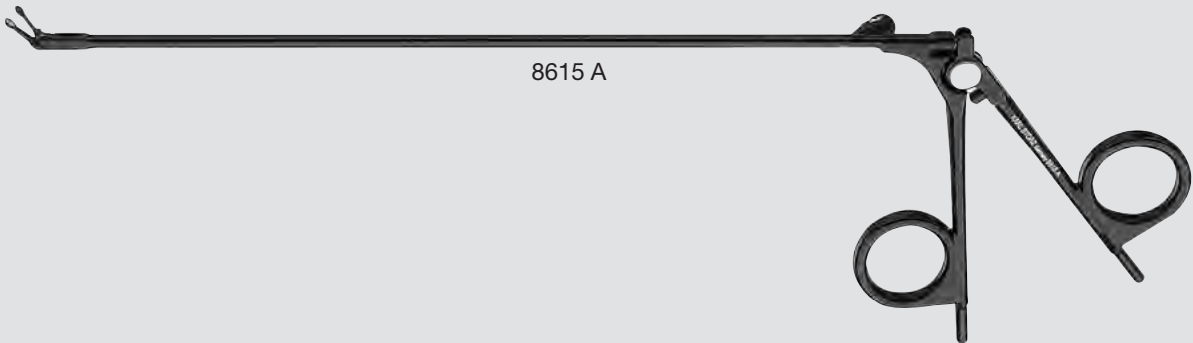
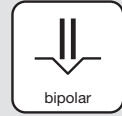
STAMMBERGER **Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

**Bipolar High Frequency Cords** see chapter 15, UNITS

# Bipolar Forceps

**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

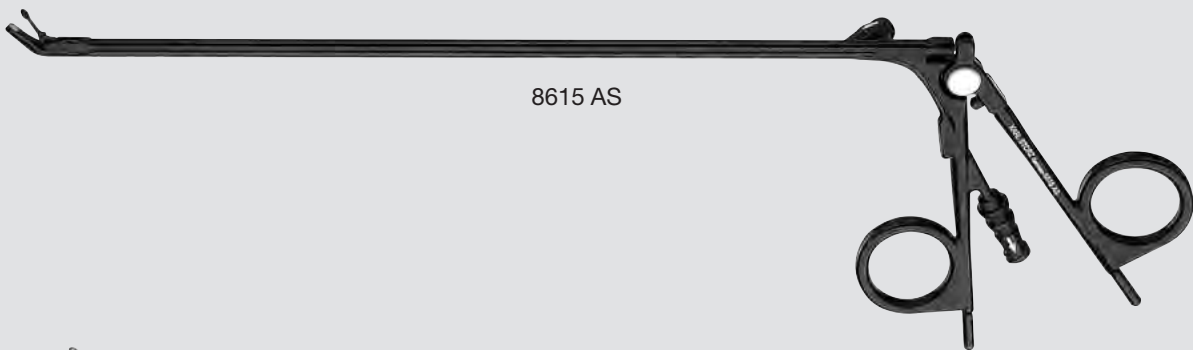


8615 A



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

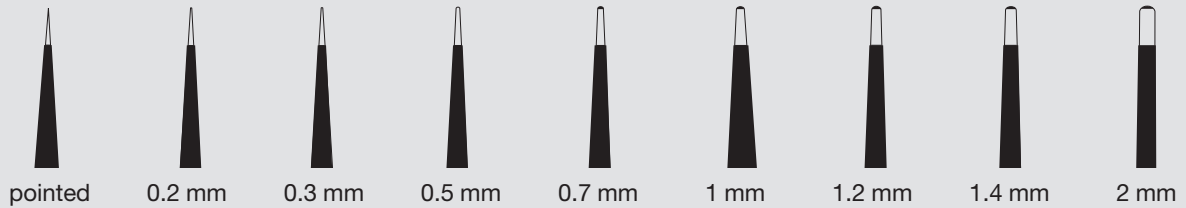
**Bipolar Suction Forceps**, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

**Bipolar High Frequency Cords** see chapter 15, UNITS



# Bipolar Coagulating Forceps

Bipolar Coagulating Forceps, insulated  
For use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V












	841116	<b>Bipolar Coagulating Forceps</b> , insulated, straight, pointed, length 16 cm
	841216	<b>Same</b> , blunt, tip 1 mm, length 16 cm
	841219	<b>Same</b> , blunt, tip 1 mm, length 19 cm
	842016	<b>Bipolar Coagulating Forceps</b> , insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm
	842116	<b>Bipolar Coagulating Forceps</b> , insulated, angled tip, tip 0.5 mm, length 16 cm
	842216	<b>Bipolar Coagulating Forceps</b> , insulated, angled tip, blunt, tip 1 mm, length 16 cm
	842219	<b>Same</b> , blunt, tip 2 mm, length 19 cm
	842319	<b>Same</b> , blunt, tip 1 mm, length 19 cm

7-071

# Bipolar Coagulating Forceps

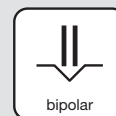
**Bipolar Coagulating Forceps, insulated**  
For use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V













	843016	<b>Bipolar Coagulating Forceps</b> , insulated, angular, very delicate, tip 0.2 mm, length 16 cm
	843016 F	<b>Same</b> , grip insulated, front part not insulated, pointed
	843116	<b>Bipolar Coagulating Forceps</b> , insulated, angular, pointed, length 16 cm
	843219	<b>Bipolar Coagulating Forceps</b> , insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm
	844116	<b>Bipolar Coagulating Forceps</b> , insulated, bayonet-shaped, pointed, length 16 cm
	844216	<b>Same</b> , blunt, tip 1 mm, length 16 cm
	844119	<b>Same</b> , blunt, tip 2 mm, length 19 cm
	844219	<b>Same</b> , blunt, tip 1 mm, length 19 cm
	844319	<b>Same</b> , slender, tip 0.5 mm, length 19 cm

# Bipolar Coagulating Forceps

**Bipolar Coagulating Forceps, insulated**  
For use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



	844320	<b>Bipolar Coagulating Forceps, insulated</b> , bayonet-shaped, blunt, with integrated suction channel and cut-off hole, tip 1.4 mm, length 20 cm
	844321	<b>Same</b> , tip 2 mm, length 20 cm
	844421	<b>Bipolar Coagulating Forceps, insulated</b> , bayonet-shaped, tip 0.3 mm, length 21 cm
	844423	<b>Same</b> , length 23 cm
	844521	<b>Same</b> , blunt, tip 0.7 mm, length 21 cm
	844523	<b>Same</b> , tip 0.7 mm, length 23 cm
	844621	<b>Same</b> , blunt, tip 1 mm, length 21 cm
	844623	<b>Same</b> , blunt, tip 1.2 mm, length 23 cm
	844721	<b>Same</b> , blunt, tip 2 mm, length 21 cm
	845219	<b>Bipolar Coagulating Forceps, insulated</b> , angled tip, bayonet-shaped, blunt, tip 2 mm, length 19 cm

# Bipolar Coagulating Forceps

## Bipolar Coagulating Forceps, insulated

For use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



845518

**Bipolar Coagulating Forceps**, insulated, for nasopharynx, tip curved 60°, blunt, tip 2 mm, length 18 cm



845721

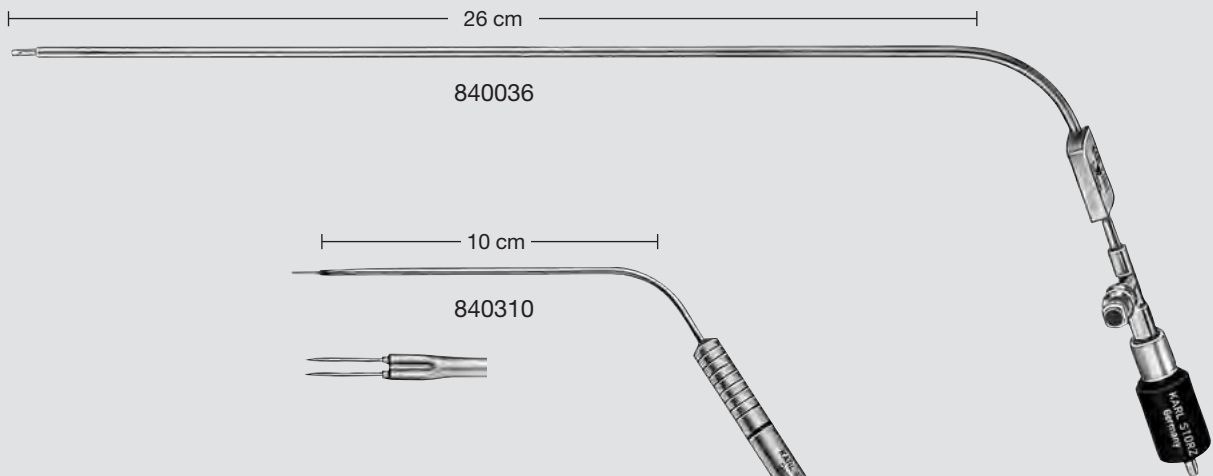
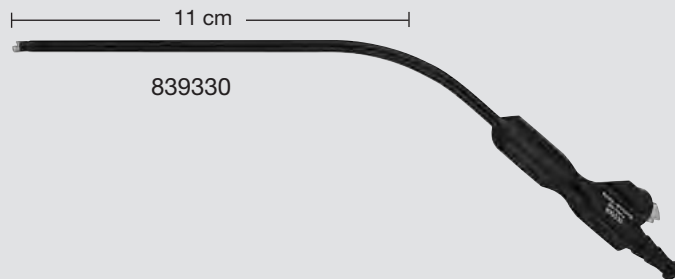
**Bipolar Coagulating Forceps**, insulated, for nasopharynx and adenoidectomy, tip with long 90° curve, with integrated suction channel, with cut-off hole, length 21 cm



845821

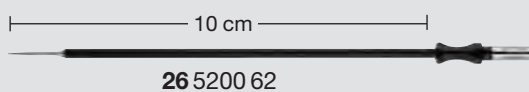
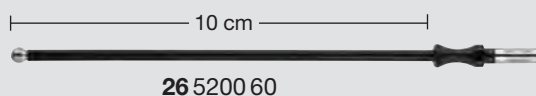
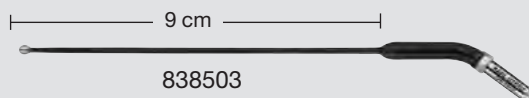
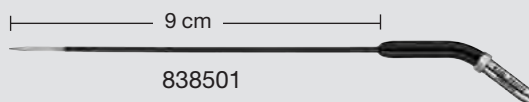
**Bipolar Coagulating Forceps**, insulated, for oral cavity and tonsillectomy, tip with short 45° curve, with integrated suction channel, with cut-off hole, length 21 cm

# Bipolar Coagulation



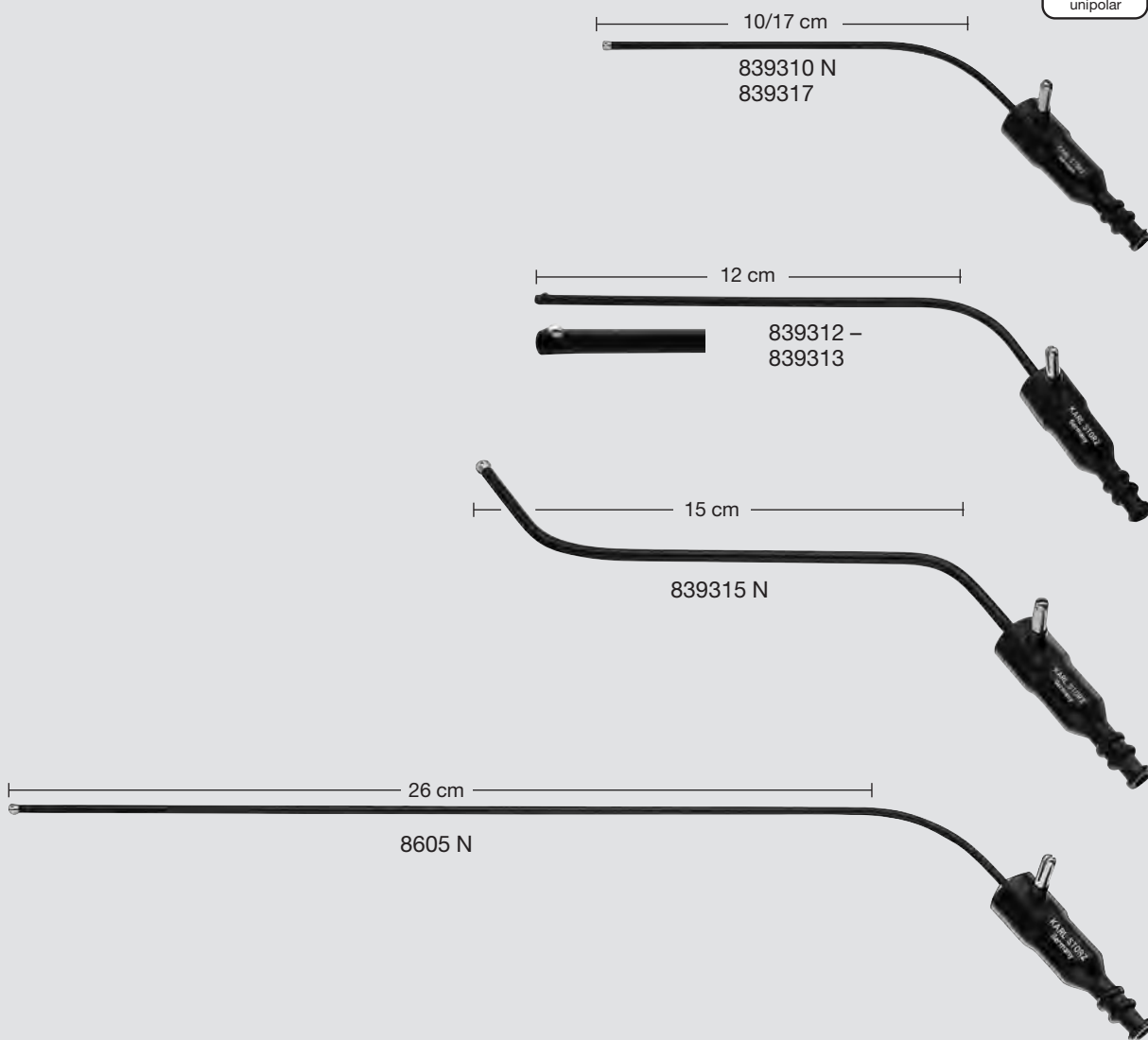
- NEW** 839330     **BRINER Bipolar Suction Cannula**, angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
- 840036     **Bipolar Coagulating Electrode**, straight, with suction 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

7-071



- 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

# Unipolar Coagulation

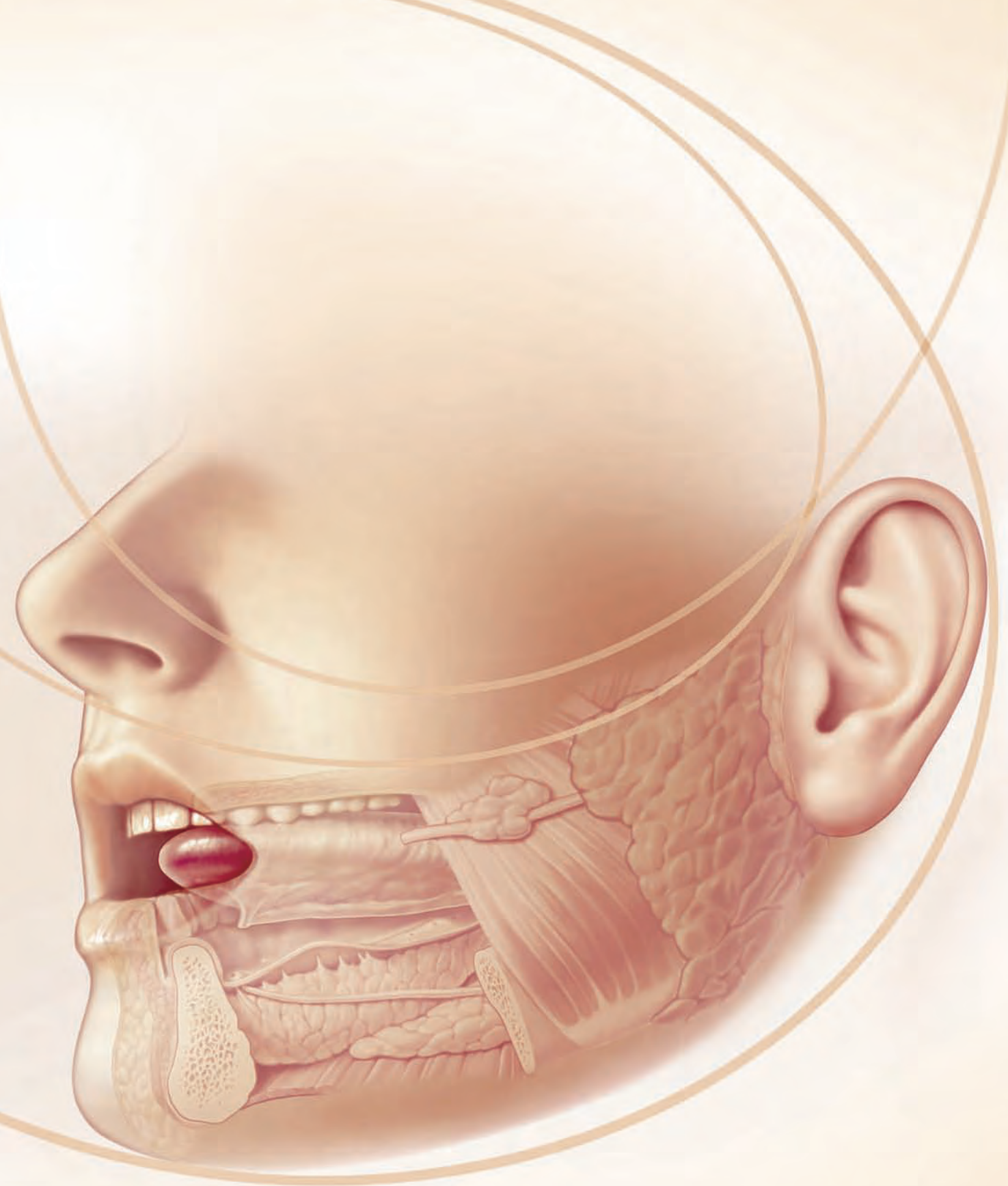


- 839310 N     **Insulated Suction Cannula**, for nose, straight, outer diameter 3 mm, working length 10 cm
- 839312     **SIMMEN Insulated Suction Cannula**, for nose and epistaxis, angular, malleable, distal with not insulated horn, outer diameter 3.5 mm, working length 12 cm, for use with Unipolar 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     **Insulated Suction Cannula**, for nasopharynx, curved upwards, malleable, outer diameter 4 mm, working length 15 cm
- 839317     **Insulated Suction Cannula**, angular, outer diameter 3 mm, working length 17 cm
- 8605 N     **KLEINSASSER Suction and Coagulation Cannula**, outer diameter 3 mm, working length 26 cm

11-11







**HEADMIRRORS - HEADLIGHTS**



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

**Components/Spare Parts** see chapter 16

# Headlight "CLAR 55"

with Lamp Illumination,  
Transformers



087200

**Headlight "CLAR 55",**  
including:  
**Headband, wide**  
**Headlight Cable**  
**Spare Lamp, 6 V**



102201 B

102201 B

**Transformer,** for light with one secondary circuit  
2 – 12 V, for use with Headlight 087200 and  
Nystagmus Spectacles 138805, 138815,  
power supply 230 VAC, 50/60 Hz, dimensions:  
175 x 100 x 125 mm (w x h x d), weight: 1.6 kg

# 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

## 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**

**Components/Spare Parts** see chapter 16

# Headlight KS60

with Cold Light Illumination

## 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
- Newly designed, 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, moveable 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

**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



**Components/Spare Parts** see chapter 16

## Headlights

with Cold Light Illumination

### 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

# Headlights

with Cold Light Illumination

## 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

**Components/Spare Parts** see chapter 16



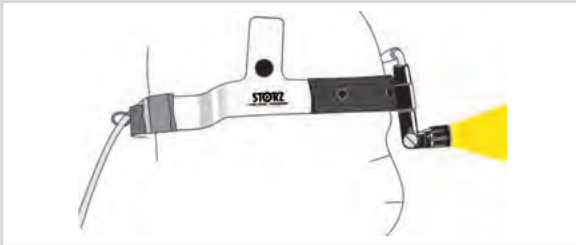
# Headlights

with Cold Light Illumination

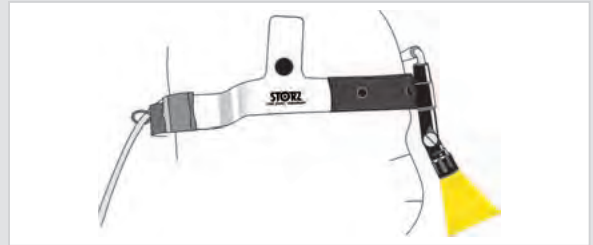
## Special Features:

- 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

# Headlights

with Cold Light Illumination

**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

**Components/Spare Parts** see chapter 16

# Headlight "CLAR 73"

with Cold Light Illumination

## 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

# Headbands

for Cold Light Illumination



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 094301, 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

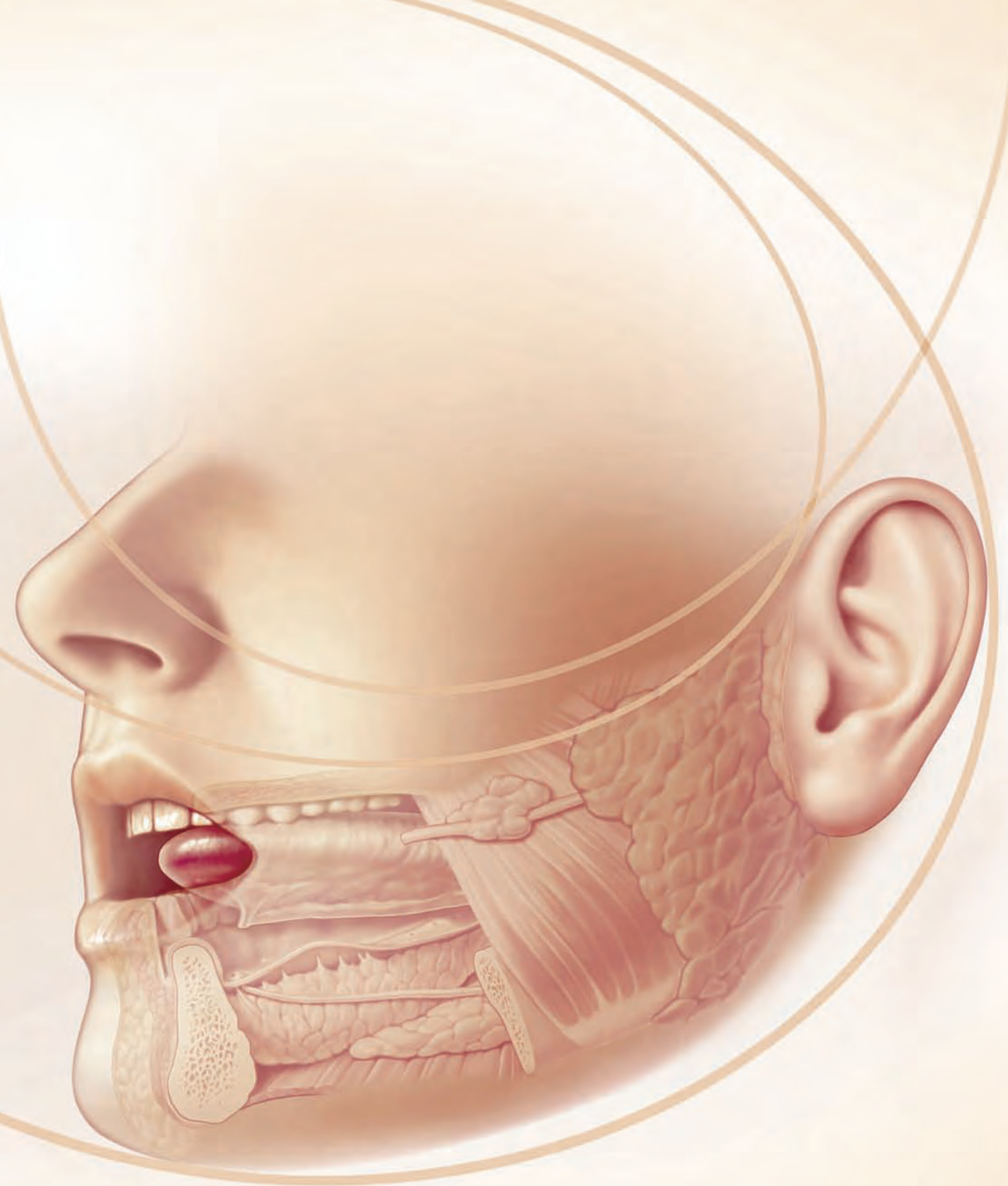


094105

094105

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

**Components/Spare Parts** see chapter 16



**AUTOFLUORESCENCE**

## Fluorescence Diagnosis for the Early Detection of Oral Cavity Tumors

The incidence of oropharyngeal malignant tumors is steadily rising, according to national and international statistics. The causes for this occurrence remain unexplained. However, it is well known that tumor genesis is due to multimodal factors. Excessive nicotine consumption in combination with chronic abuse of high-percentage alcohol often lead to a loss of social standing and are considered to be important cofactors in producing malignant tumours in the oral cavity. Although the oral cavity is easy to inspect and does not require much equipment, large tumors in several anatomical structures are often present at the time of diagnosis.

The fact that oral cavity carcinomas are often asymptomatic in the early stages almost certainly plays a role. Consequently, much time elapses until symptoms such as pain, bleeding, ulcers and difficulty chewing or swallowing occur at a later stage – when the metastasis of tumor cells has possibly already taken place in the regional lymph nodes.

Early diagnosis and treatment can significantly improve survival rates. Consequently, the early detection of oral cavity carcinoma is a decisive prognostic factor.

### Patient Management

Aminolevulinic acid (ALA) as a 0.4 % water solution with a pH-value of 2.6 is applied. Approx. an hour after professional hygienization, ALA is administered locally to the mucosa for 20 minutes by rinsing the oral cavity.

Fluorescence diagnosis is performed three hours after ALA administration. By means of a light cable, the excitation light can be conveniently directed at the oral cavity location to be examined. A color CCD video camera with the appropriate filter system records the intraoral fluorescence findings. Based on the video documentation of these findings, mucosa is removed for the purposes of biopsy. The histological results serve to confirm fluorescence findings.

### Discussion

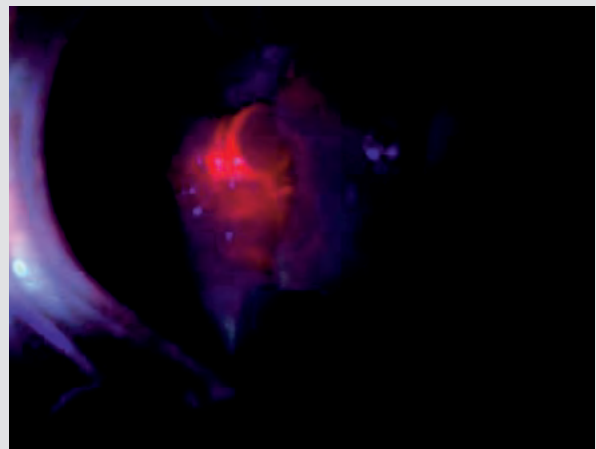
Early detection of an oral cavity carcinoma and its pre-stages is feasible with fluorescence diagnosis. Topical application of the natural cell metabolism substrate “5-amino-levulinic acid” offers decisive advantages over the systematic application of synthetic photosensitizers, especially in patient management. No significant side effects for patients due to the local administration of ALA are known at present.

We have reached the conclusion that, taking patient management into consideration, ALA-assisted fluorescence diagnosis allows precise detection of oral cavity carcinoma and its pre-stages. In addition to other routine examinations, fluorescence diagnosis provides an additional method for the detection, documentation and clinical control of oral cavity tumors or their pre-stages.

*P. SCHLEIER, M.D.  
Department of Oral and Maxillofacial Surgery,  
Stavanger University Hospital,  
Stavanger, Norway*



*Clinical image of a tumor in the right mandible. The tumor mass extends from the retromolar as far as tooth 45 and infiltrates the bone by 2 cm in length.*

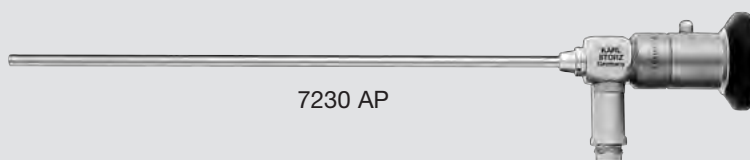


*The red fluorescence of PpIX highlights the tumor and contrast it to the surroundings which appear to be blue.*

# HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD) of the Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

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 Cables



495 FO

**Fluid Light Cable**, diameter 3 mm, length 180 cm

495 FP

**Same**, length 250 cm

495 FS

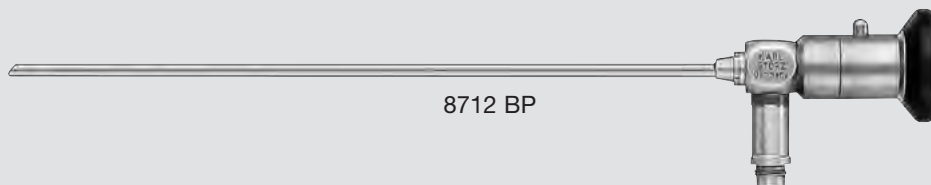
**Fluid Light Cable**, diameter 2 mm, length 220 cm

7-071

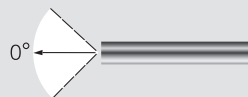
For the high performance D-LIGHT C/AF light system as well as ENDOVISION® TRICAM® SL II PDD Video Systems for use with HOPKINS® II Telescopes 7230 AP – FP for Autofluorescence/Photodynamic Diagnosis (PDD) see catalog TELEPRESENCE

# HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)  
during rigid direct laryngoscopy



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

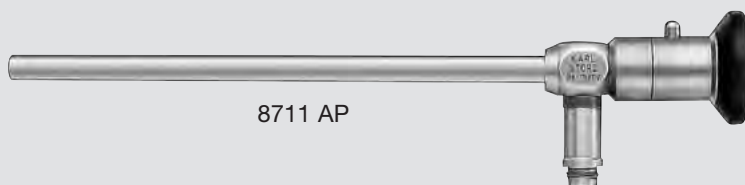


8712 CP

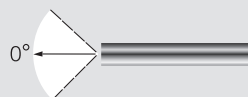
**HOPKINS® II Lateral Telescope 70°**, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP

**Fluid Light Cable**, diameter 3 mm, length 250 cm



8711 AP

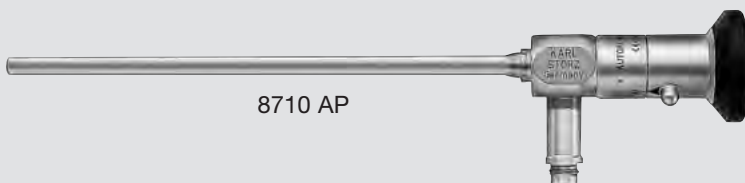


8711 AP

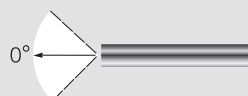
**HOPKINS® Straight Forward Telescope 0°**, for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

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

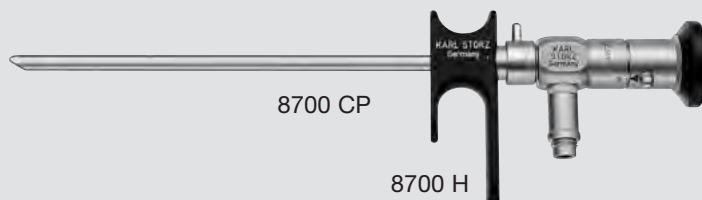
495 FR

**Fluid Light Cable**, diameter 5 mm, length 250 cm



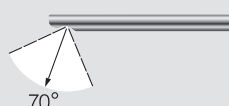
# HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)  
during rigid direct laryngoscopy



8700 CP

8700 H

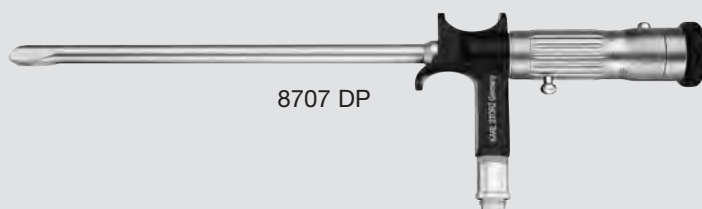


8700 CP

**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



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

# 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.

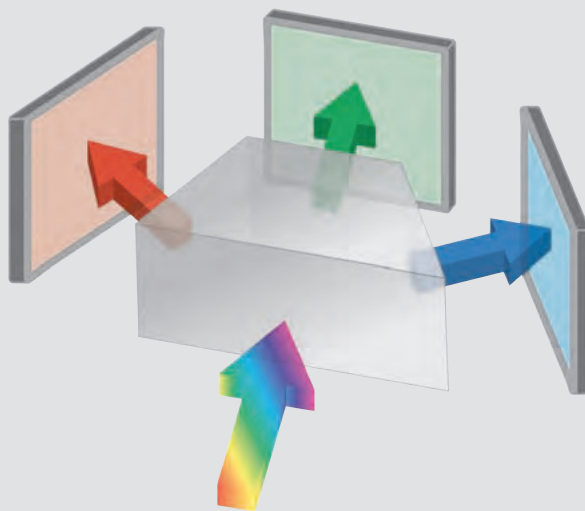
Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

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



# TRICAM® SL II

Camera Control Unit SCB



## 20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

**Mains Cord**

**Keyboard**, with US English character set

2x **Connecting Cable**, for controlling peripheral units

**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 to 4-pin mini-DIN socket (2x) - Composite signal to BNC socket - DV signal to 6-pin DV socket	Camera Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Input	Keyboard input for title generator and control functions to 6-pin mini-DIN socket	Weight	2.7 kg
Control output/input	KARL STORZ-SCB to 6-pin mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)	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

7-071

**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 Pendulum Three-Chip Camera Head



20 2210 39 / 20 2211 39

20 2210 39	<b>PAL</b>	<b>TRICAM® PDD Three-Chip</b>
20 2211 39	<b>NTSC</b>	<b>Pendulum Camera Head</b>

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	<b>PAL</b>	<b>TRICAM® PDD</b>
20 2211 37	<b>NTSC</b>	<b>Three-Chip Camera Head</b>

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
<b>PAL</b>	20 2210 39	20 2210 37
<b>NTSC</b>	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

## D-LIGHT C/AF System SCB

### 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 133601-133 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	Dimensions w x h x d	305 x 165 x 335 mm
Color temperature	6000 K	Weight	11 kg
Light outlets	1	Certified to	IEC 601-1 and UL 544, protection class 1/CF
Light intensity adjustment	continuously adjustable via a membrane keyboard or KARL STORZ Communication Bus Signal		

**Spare Lamps and Spare Lamp Modules for D-LIGHT Systems** see catalog TELEPRESENCE

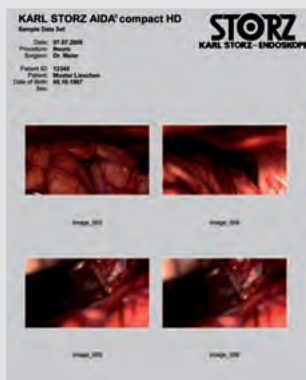
**Components/Spare Parts** see catalog TELEPRESENCE

## 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.

# Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

## 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



**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 (standard only) - SD-SDI (standard only) - HD-SDI (standard only) - DVI-D (standard only)
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 flash drive

\* Available in the following languages: DE, ES, FR, IT, PT, PL, RU, DK, SE, JP, CN  
**Components/Spare Parts** see catalog KARL STORZ OR1 NEO™



# Accessories

for AIDA compact NEO advanced/standard

## 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
<b>Inputs:</b>	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
SOG	●
DVI-D	●
Fibre Optic	—
VGA	●
<b>Outputs:</b>	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
DVI-D	●
<b>Signal Format Display:</b>	
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	●

**The following accessories are included:**

- 400 A      **Mains Cord**, length 300 cm
- 9419 PS    **Power Supply**
- 9526 SF    **Pedestal**, 19", 24" and 26" monitors

# Accessories

for AIDA compact NEO advanced/standard

## 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:

<b>KARL STORZ TFT Flat Screens</b>	<b>19"</b>
<b>Desktop with pedestal</b>	W29519 N
<b>Wall-mounted with 100 adaption</b>	W29519 NB
Brightness	300 cd/m <sup>2</sup>
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
Rel. humidity	5-85%, non-condensing
Dimensins 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

**Components/Spare Parts** see catalog KARL STORZ OR1 NEO™

# Accessories

for AIDA compact NEO advanced/standard

## KARL STORZ Touch Screens



20 0904 03/20 0904 06



20 0904 01/20 0904 05

KARL STORZ Touch Screens	15"	19"
<b>Desktop with pedestal</b>	20 0904 03	20 0904 06
<b>Wall-mounted with VESA 75/100 adaption</b>	20 0904 01	20 0904 05
<b>Inputs:</b>		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	-	●
<b>Screen Diagonal:</b>		
38 cm	●	-
48 cm	-	●
<b>Max. Screen Resolution:</b>		
1024 x 768	●	-
1280 x 1024	-	●

### Specifications:

KARL STORZ Touch Screens	15"	19"
<b>Desktop with pedestal</b>	20 0904 03	20 0904 06
<b>Wall-mounted with VESA 75/100 adaption</b>	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/m <sup>2</sup> (typ.)	250 cd/m <sup>2</sup> (typ.)
Viewing angle	Horizontal total 80° Vertical total 80°	Horizontal total 85° Vertical total 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 to	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

# Accessories

for AIDA compact NEO advanced/standard

## 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™

## Accessories

for AIDA compact NEO advanced/standard



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 34U

**PS/2 Compact Keyboard**, US version, with cover

20 0402 32

**PS/2 Silicone Keyboard**, German version, washable, disinfectable



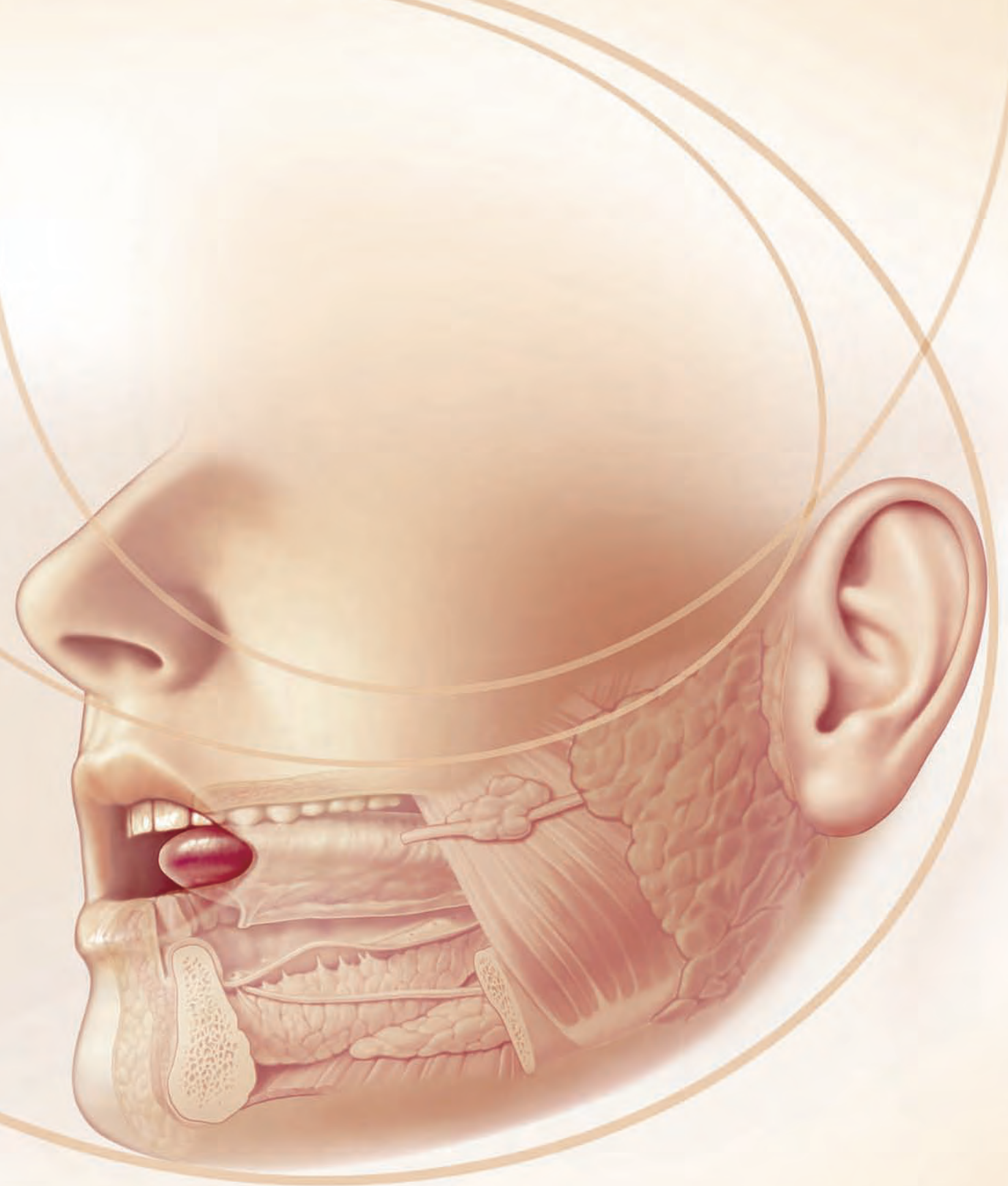
20 0104 30

**Two-Pedal Footswitch**, two-stage

# Accessories

for AIDA compact NEO advanced/standard

	<b>200402 72</b>	<b>SVGA Connecting Cable</b> , length 600 cm
	<b>200400 73</b>	<b>RS 232 Connecting Cable</b> , length 600 cm
	<b>200400 74</b>	<b>Printer Cable</b> , length 300 cm
	<b>200401 74</b>	<b>Printer Cable</b> , length 500 cm
	<b>200103 70</b>	<b>Potential Equipotential Cable</b> , length 200 cm
	<b>200102 70</b>	<b>Potential Equipotential Cable</b> , length 500 cm
	<b>W20475</b>	<b>OR1™ Network Isolator</b> , for galvanic decoupling of units with RJ45 network connection (100 Mbit)
	<b>200900 34</b>	<b>Ethernet Network Board</b> , 10/100 Mbit/s
	<b>200900 37</b>	<b>Fiber Optic Network Board</b> , 100 Base-FX (SC)
	<b>200901 71</b>	<b>Fiber Optic Network Cable</b> , LWL-patch cable with ST and SC plugs, configured, length 100 cm
	<b>200900 36</b>	<b>Media Converter</b> , converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply
	<b>200400 76</b>	<b>RJ45 Network Cable</b> , length 500 cm
	<b>202040 80</b>	<b>CD-R</b> , 700 MB, package of 10
	<b>202040 81</b>	<b>DVD+RW</b> , 4.7 GB, package of 5
	<b>202040 82</b>	<b>DVD+R</b> , 4.7 GB, package of 10
	<b>202040 83</b>	<b>DVD-R</b> , 4.7 GB, package of 10



**HOLDING SYSTEMS**

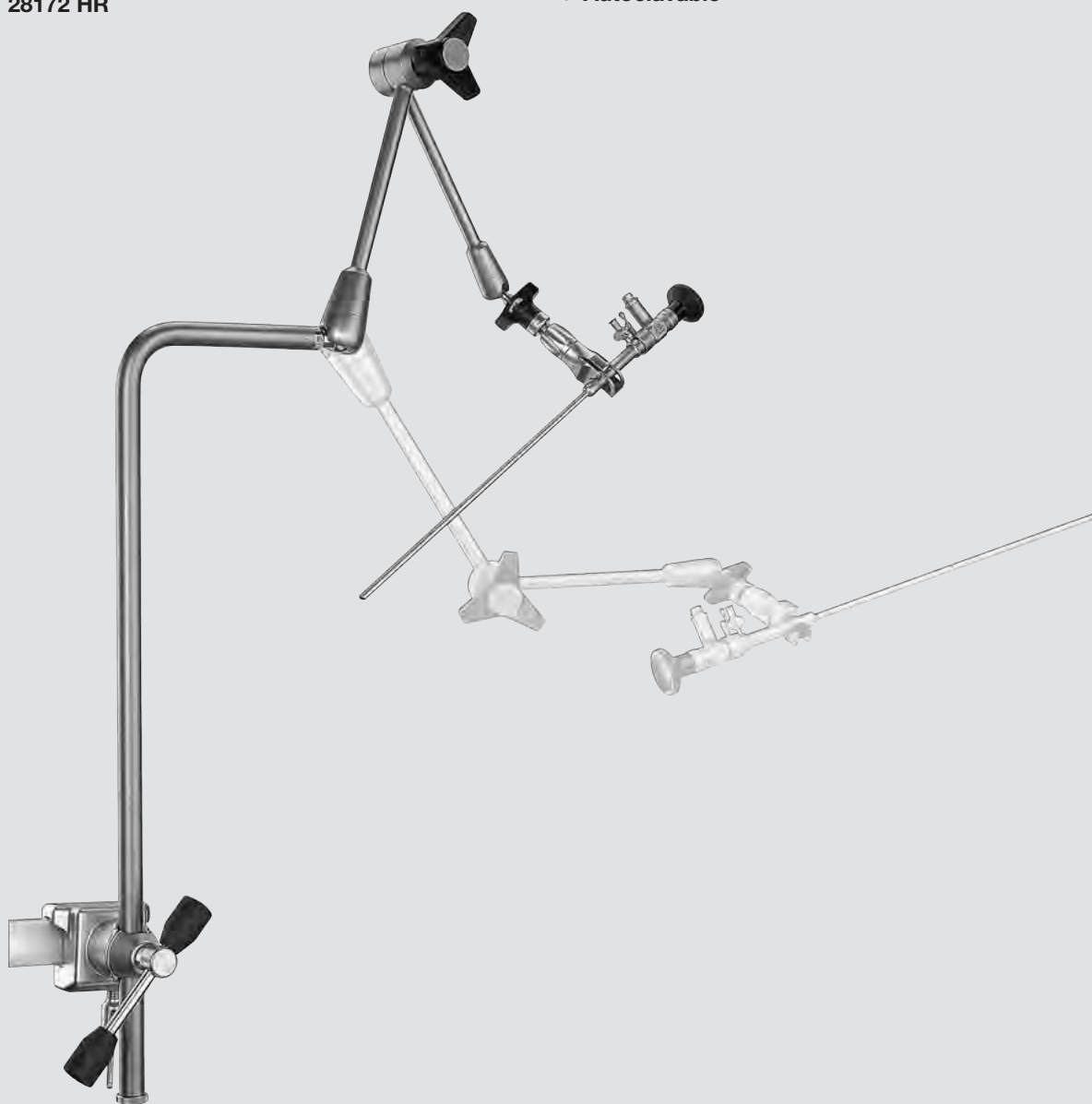
# Holding Systems

with KSLOCK



## Special Features:

- Simple, fast and accurate positioning
- New, reinforced versions of various articulated stands
- Five joint functions enable a large number of different positions
- All five joint functions can be fixed by means of a mechanical central clamp
- Additional height adjustment by using the socket
- Additional angle adjustment by using the socket 28172 HR
- Socket for use with European and United States standard rails
- Ergonomical positioning at the operating table
- Eases the work routine of the assistant
- Instruments and telescopes are clamped securely
- Steady imaging of the operation field
- Modular composition using individual elements
- Maintenance-free solid construction
- Autoclavable




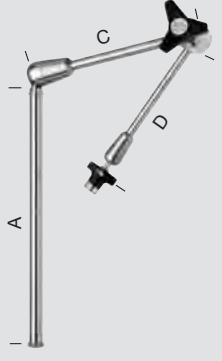
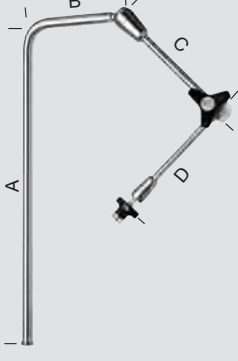
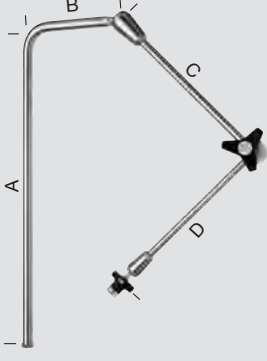
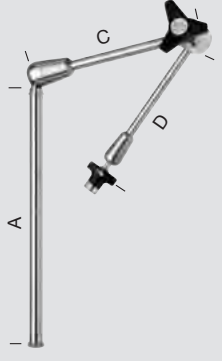
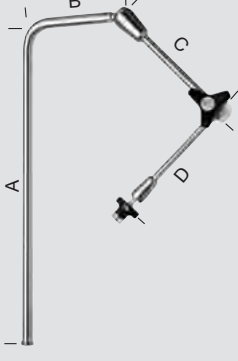
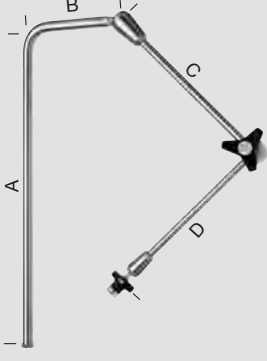

28272 RKB



# Mechanical Holding Systems

with KSLOCK



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 HOPKINS® 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



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

# 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

# ENDOCRANE™ Holding System <sup>NEW</sup>

## 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**

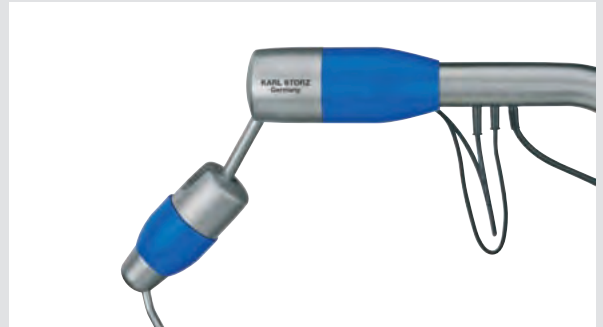
The ENDOCRANE™ system allows single-handed use via the handle.

- **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.

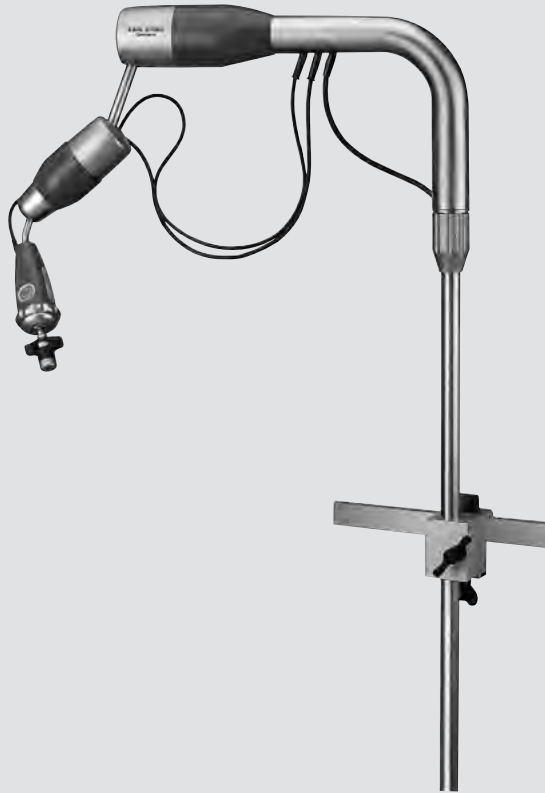
- **Hygiene**

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.



# ENDOCRANE™ Holding System *NEW*

**STORZ**  
KARL STORZ — ENDOSKOPE



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**



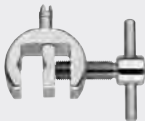





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**A clamping jaw is required to complete the ENDOCRANE™ holding system.**  
**Clamping jaws for the ENDOCRANE™ holding system** see page 349  
**Components/Spare Parts** see chapter 16


# ENDOCRANE™ Holding System <sup>NEW</sup>

Accessories

	28272 UGN	<b>Clamping Jaw</b> , metal, with axial intake, for use with all square-headed KARL STORZ HOPKINS® telescopes, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male)
	28272 UKN	<b>Clamping Jaw</b> , metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male)
	28272 UL	<b>Clamping Jaw</b> , universal, clamping range 0 to 18 mm, with quick release coupling KSLOCK (male)
	28272 UF	<b>Clamping Jaw</b> , for use with all KARL STORZ polymer housing fiberscopes, with quick release coupling KSLOCK (male)
	28272 C	<b>Clamping Cylinder</b> , for flexible mounting of 10 mm telescopes to telescope sheath, <b>autoclavable</b> . The clamping cylinder allows vertical movement and rotation of the telescope.
	040146-25*	<b>Cover</b> , 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 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		

10-11 \*  mtp medical technical promotion gmbh,  
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Specifications subject to change.

# POINT SETTER® Holding System <sup>NEW</sup>

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.

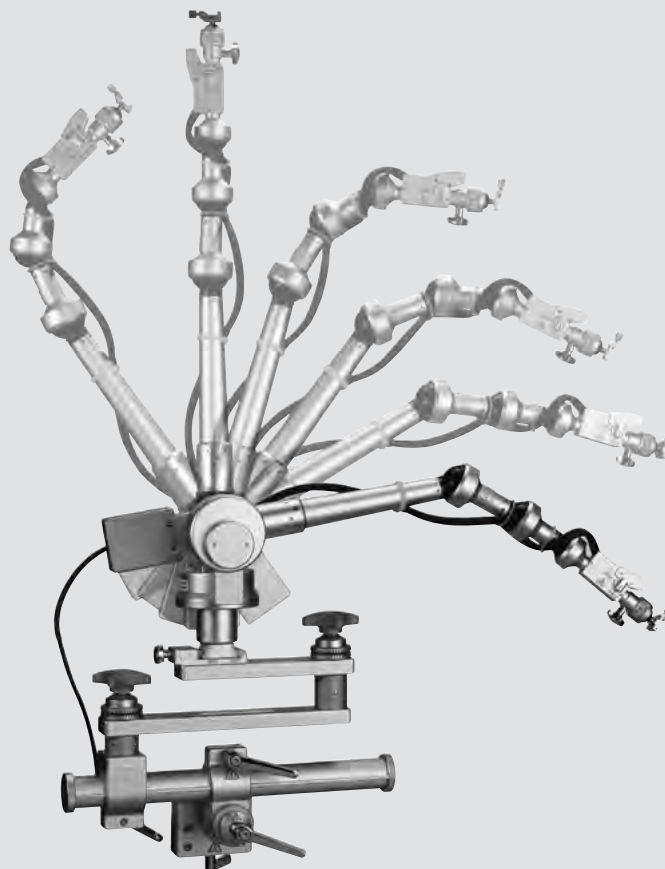
The patented self-locking pneumatic system ensures perfect safety, eliminating the need for additional error-prone electronics.

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.



# POINT SETTER® Holding System <sup>NEW</sup>

## 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

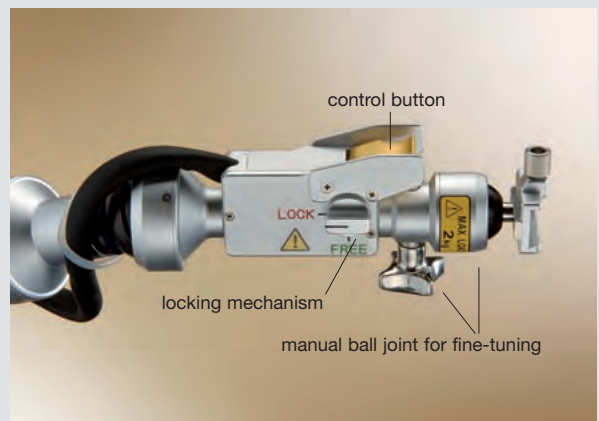
The connector joints of the POINT SETTER® arm have a special surface structure for uniform and smooth movement.

### ● Balanced System

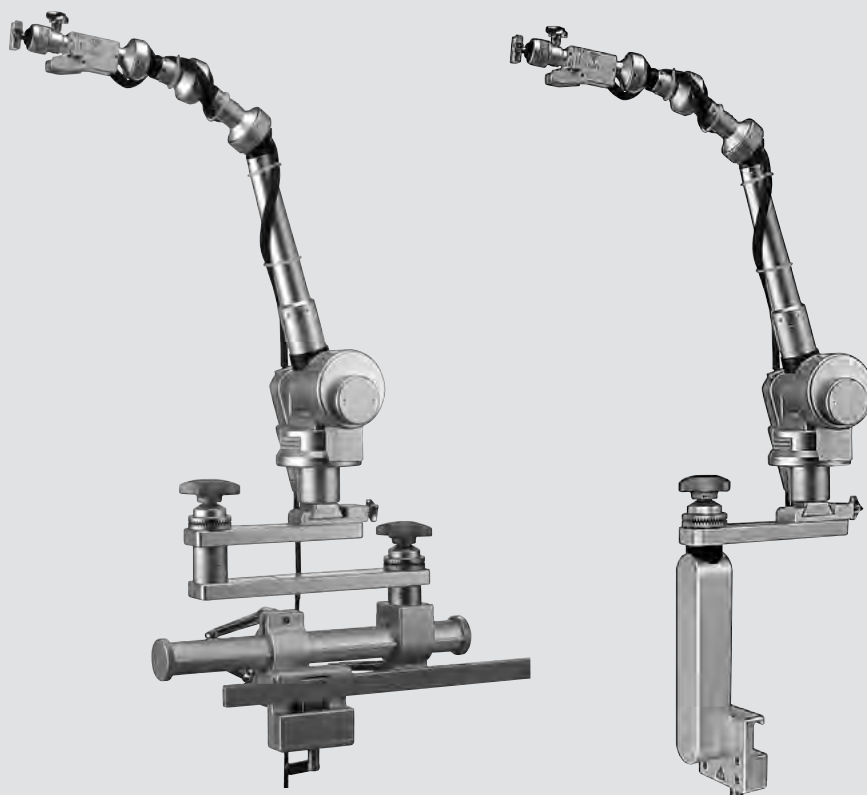
The POINT SETTER® arm is counterbalanced to ensure optimal movement. This is particularly important to ensure that the surgeon's fine-motor control remains unhindered during complex interventions.

### ● Robust Design

The POINT SETTER® arm is very robust and has high torsional stiffness for low oscillation and high reliability.



# POINT SETTER® Holding System <sup>NEW</sup>



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 easier OR table adaptor with less setting options than the standard OR table adaptor.

Specifications subject to change without notice.

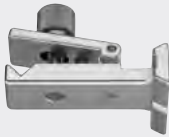


# POINT SETTER® Holding System <sup>NEW</sup>

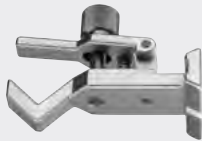
Spare Universal Adaptor, for complementing the POINT SETTER® system



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®

# POINT SETTER® Holding System <sup>NEW</sup>

## Alternative and Spare Connecting Tubes

	28172 WA	<b>Connecting Tube</b> , for POINT SETTER®, Dräger, length 600 cm
	28172 WB	<b>Connecting Tube</b> , for POINT SETTER®, Dräger air motor, length 600 cm
	28172 WC	<b>Connecting Tube</b> , for POINT SETTER®, compressor, length 600 cm
	28172 WN	<b>Connecting Tube</b> , for POINT SETTER®, Schrader, length 600 cm
	28172 WO	<b>Connecting Tube</b> , for POINT SETTER®, with open end, length 600 cm

## Accessories and Expendable Materials

	20 0310 02	<b>Air Compressor</b> , for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz including: <b>Fabric Reinforced Tube</b> , for CALCUSPLIT® SCB <b>Connecting Tube</b> , for POINT SETTER®, length 600 cm
	20 0310 02 C	<b>Air Compressor</b> , for POINT SETTER®, 0 – 8 bar, power supply 115 VAC, 50/60 Hz including: <b>Fabric Reinforced Tube</b> , for CALCUSPLIT® SCB <b>Connecting Tube</b> , for POINT SETTER®, length 600 cm
	2761291	<b>Pressure Regulator</b> , 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line
	28272 C	<b>Clamping Cylinder</b> , for flexible mounting of 10 mm telescopes to telescope sheath, <b>autoclavable</b> . 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	<b>Spring Balance</b> , loading capacity 25 N
	28172 WD	<b>Drape</b> , for single use, sterile, package of 10

Components/Spare Parts see chapter 16

# STOR-E™ Transport Cart <sup>NEW</sup>

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:

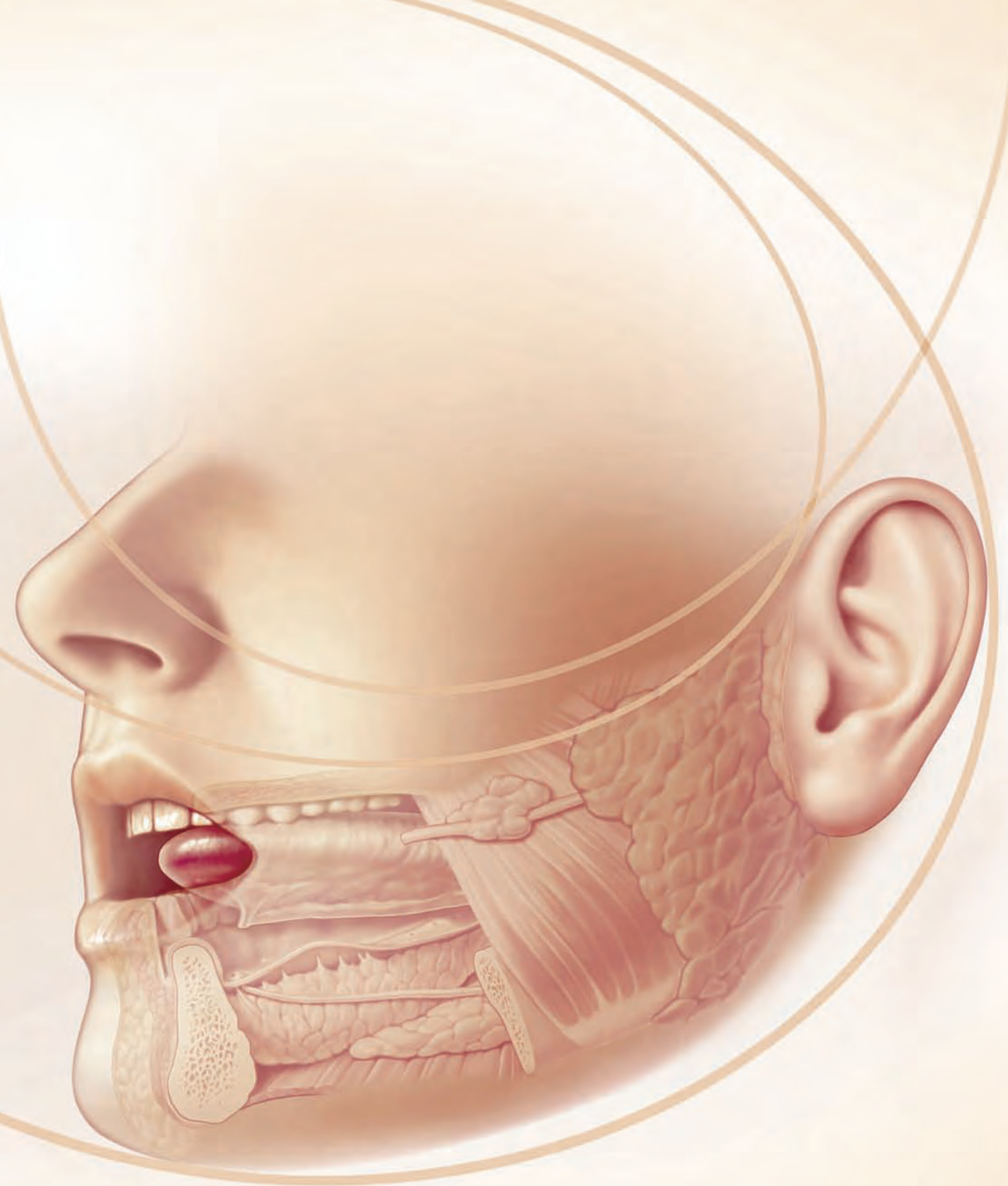
- Mobile and safe storage of the POINT SETTER® holding arm
- Faster installation and readiness of the POINT SETTER® for immediate use in the OR
- Offers space for the POINT SETTER® with standard OR table adaptor, connecting tube, sterile covers and small parts



20 0200 59

- 20 0200 59 **STOR-E™ Transport Cart**, for the POINT SETTER® holding arm including:  
**Attachment Set**, for POINT SETTER®  
**Wire Basket**  
**Manual**





**VISUALIZATION SYSTEMS  
FOR MICROSURGERY**



# HD Imaging with Operating Microscopes

Direct Adaptation



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.



*Direct adaption to the VARIO operating microscope from Carl Zeiss Meditec*

# HD Imaging with Operating Microscopes

System Overview

## Camera and Camera Control Unit



IMAGE 1 HUB™ HD Camera Control Unit

+



H3-M COVIEW® HD Microscope Camera Head

## TV Adaptors



QUINTUS® TV Adaptor,  
for CARL ZEISS MEDITEC

or



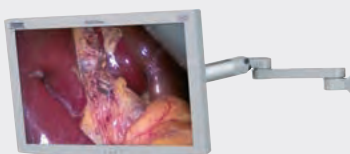
QUINTUS® TV Adaptor,  
for LEICA Microsystems

or



QUINTUS® TV Adaptor,  
for Möller-Wedel

## HD Monitor



FULL HD WIDEVIEW Monitor, see pages 377 and 378

## Documentation System



KARL STORZ AIDA® compact NEO advanced/standard  
(optional), see pages 344 – 360

## Accessories

Equipment Cart 29005 LAP



# HD Imaging with Operating Microscopes

System Components



## H3-M COVIEW® 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 22 2020 11U1xx



22 2200 54-3

**NEW** 22 2200 54-3 **50 Hz** **IMAGE1 H3-M COVIEW® Three-Chip**  
**60 Hz** **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**

### 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 1/8" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x l)	45 x 50 x 60 mm
Weight	240 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



### 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 integrated 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

**Components/Spare Parts** see catalog TELEPRESENCE

# HD Imaging with Operating Microscopes

System Components

**IMAGE 1**  
HD

## IMAGE 1 HUB™ HD Camera Control Unit



**NEW** 222010 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**

**Special RGBS 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 Flash Drive**, 4 GB



**NEW** 222020 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 Flash Drive**, 4 GB

**Components/Spare Parts** see catalog TELEPRESENCE

# HD Imaging with Operating Microscopes

## System Components



### IMAGE 1 HUB™ HD Camera Control Unit

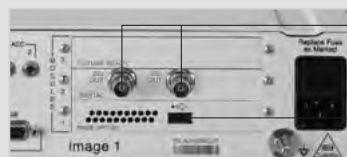
#### Specifications:

Signal-to-noise ratio	IMAGE 1 HUB™ HD, three-chip camera systems $\geq 60$ dB	Control output/input	- KARL STORZ-SCB to 6-pin socket Mini-DIN socket (2x) - 3.5 mm stereo jack plug (ACC 1, ACC 2), - Serial port at RJ-11 - USB port (only IMAGE 1 HUB™ HD with ICM) (2x)
AGC	Microprocessor-controlled	Dimensions w x h x d	305 x 89 x 335 mm
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	Weight	3.35 kg
Input	Keyboard for title generator, 5-pin DIN socket	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 acc. to MDD, protection class 1/CF defibrillation-safe

**ICM:** 2x USB outputs (1x printer output on rear panel, 1x storage medium on the front panel)

**SDI:** 2x outputs

#### Additional Modules:



**SDI: Serial Digital Interface**  
optimized for medical display on flat screens, routing with OR1™ and digital recording with AIDA-DVD-M

**ICM: ICM**  
USB connection for recording still images and video sequences on a USB storage medium or to connect to a USB printer for printing recorded still images directly.  
Compatible printers:  
KARL STORZ USB Printer 549 M

#### Recommended storage media:









KARL STORZ 4 GB USB Flash Drive 20 0402 81

# HD Imaging with Operating Microscopes

System Components

## Optional accessories for IMAGE 1 HUB™ HD Camera Control Unit and Camera Heads



	<p><b>20 2002 31</b> <b>Keyboard</b>, with German character set, PS/2 connector, including AT-adaptor and protective cover</p> <p><b>20 2002 31F</b> <b>Same</b>, with French character set</p> <p><b>20 2002 31I</b> <b>Same</b>, with Italian character set</p> <p><b>20 2002 31P</b> <b>Same</b>, with Portuguese character set</p> <p><b>20 2002 31S</b> <b>Same</b>, with Spanish character set</p> <p><b>20 2002 31U</b> <b>Same</b>, with US English character set</p>
	<p><b>NEW 20 0402 33</b> <b>Medical Silicone Keyboard CLINBOARD</b>, with German character set, PS/2 connector, with antibacterial coating, washable, disinfectable</p>
	<p><b>NEW 22 2200 72</b> <b>IMAGE 1 HUB™ HD Extension Cable</b>, length 520 cm, for use with IMAGE1 HD camera heads (except H3-M/H3-M COVIEW® FULL HD microscope camera heads)</p>
	<p><b>22 2001 70</b> <b>IMAGE1 SD Extension Cable</b>, length 760 cm, for use with IMAGE1 standard camera heads</p>
	<p><b>NEW 22 2200 70</b> <b>IMAGE1 HD Camera Head Cable</b>, length 300 cm, for use with H3-M/H3-M COVIEW® FULL HD Microscope Camera Heads <b>22 2200 54-3</b> and <b>22 2201 54-3</b> (spare part)</p>
	<p><b>NEW 22 2200 71</b> <b>IMAGE1 HD Camera Head Cable</b>, length 900 cm, for use with H3-M/H3-M COVIEW® FULL HD Microscope Camera Heads <b>22 2200 54-3</b> and <b>22 2201 54-3</b> (spare part)</p>
	<p><b>NEW 39301 Z3TS</b> <b>Plastic Container for Sterilization and Storage</b> of camera heads <b>IMAGE1 H3-Z, H3-ZA and H3-FA</b>, <b>autoclavable</b>, suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm</p> <p><b>Please note:</b> The instrument displayed is not included in the plastic container.</p> <p>Only camera heads marked “autoclave” can be placed in the tray for steam sterilization.</p>
	<p><b>20 0141 30</b> <b>One-Pedal Footswitch</b>, one-stage, for freeze frame or video recording in combination with IMAGE 1 HUB™ <b>22 2010 20-110/-112</b> and <b>22 2000 20-112</b></p> <p><b>20 2330 70</b> <b>Adaptor ACC 1</b>, for Footswitch <b>20 0141 30</b></p>

### 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:

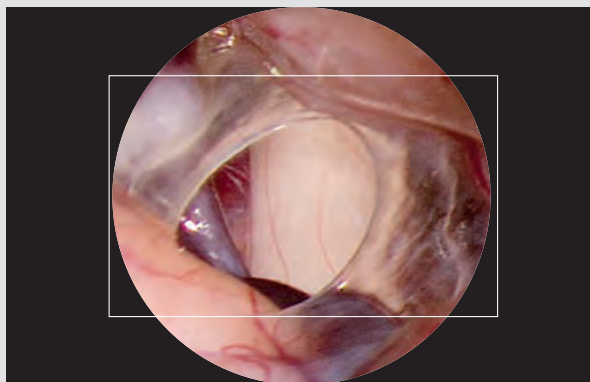
- A **rotating C-MOUNT connection** at the QUINTUS® TV adaptor allows immediate adaption of the camera orientation during mounting.
- The **focus control** makes it possible to easily achieve parfocality (perfectly sharp camera and microscope images).
- The **iris control** provides convenient and optimal adjustment of the depth of field
- **Pan (X) function** enables adjustment of the

horizontal position of the camera image.

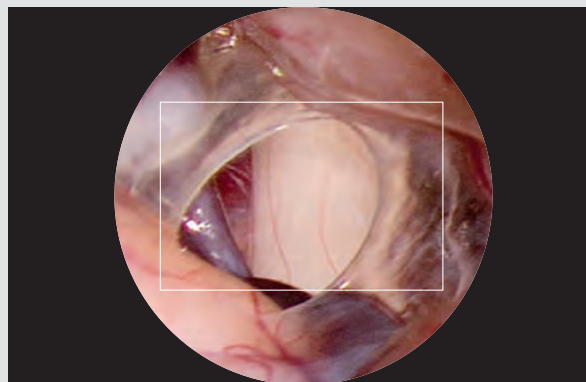
- **Tilt (Y) function** enables adjustment of the vertical position of the camera image. The pan and tilt functions helps the surgeon to adjust the position of the camera image according to his individual needs.

#### Focal length of the QUINTUS® TV adaptor:

The QUINTUS® TV adaptor for H3-M COVIEW® 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

# HD Imaging with Operating Microscopes

System Components

## 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

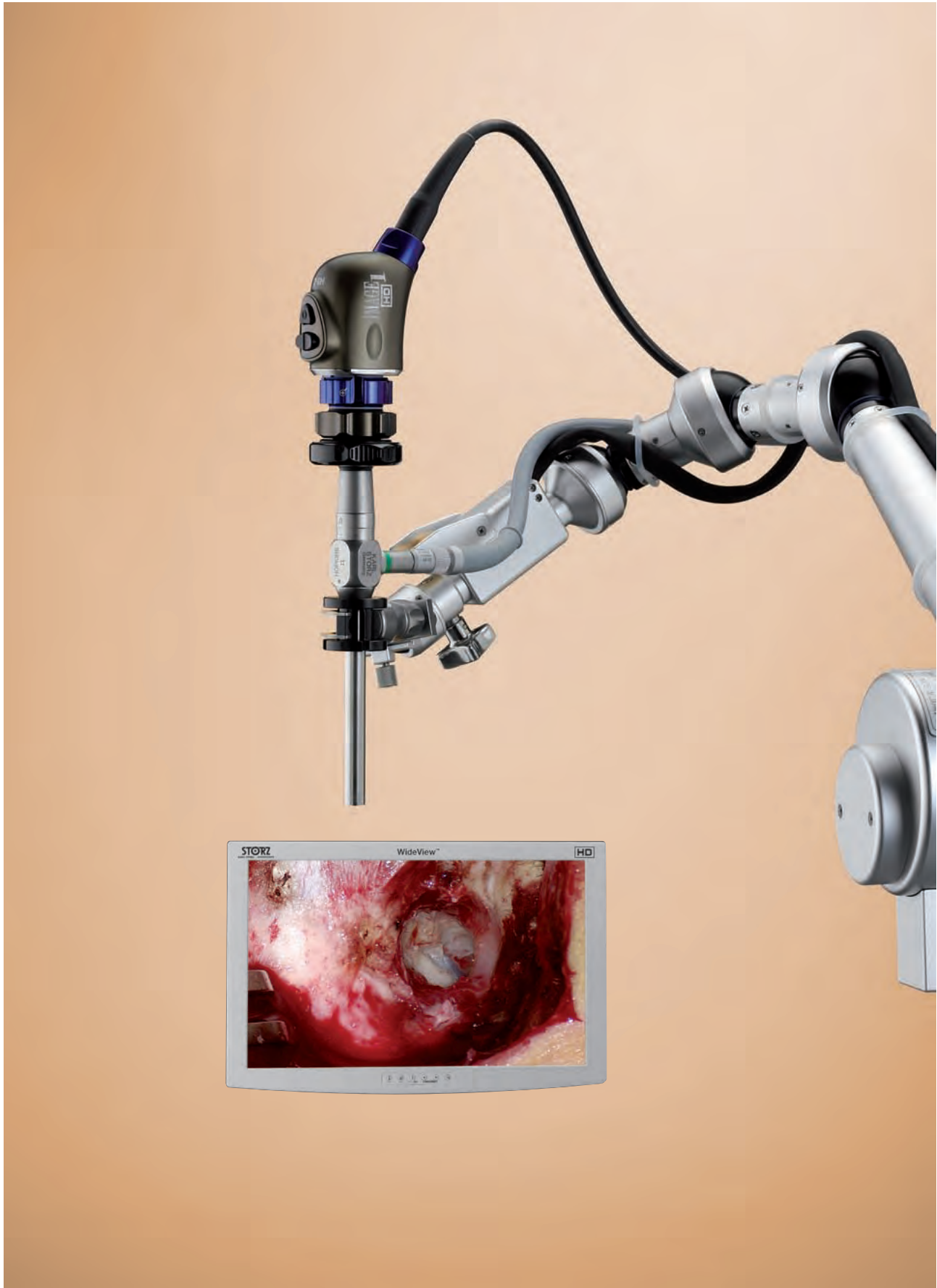
**301513** **Optical Beamsplitter 50/50**, for use with ZEISS operating microscope or colposcope

**Note:** Optical beamsplitters for other operating microscopes (e.g., LEICA or Möller-Wedel) are available directly from the manufacturers.

# VITOM® 25 <sup>NEW</sup>

Visualization System for Open Surgery with Minimal Access

**STORZ**  
KARL STORZ — ENDOSKOPE



12-11



# VITOM® 25 <sup>NEW</sup>

Visualization System for Open Surgery with Minimal Access

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 – 60 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 provides excellent depth of field, magnification, contrast and color reproduction, which are the requisites for FULL HD display and recording.

#### The VITOM® 25 system offers:

- Excellent FULL HD image quality
- Great depth of view
- Large working distance
- Ergonomic monitor work

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.

- Compact design requiring minimal space in the OR
- Use of existing KARL STORZ FULL HD endoscopy system possible



Prof. Dr. G. Strauß, IRDC, Leipzig

**Exoscope and Illumination**



**Camera System and Display**



**Holding Systems, see chapter 13, HOLDING SYSTEMS**



**Documentation System**

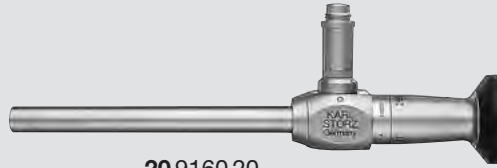


KARL STORZ AIDA® compact NEO advanced, see pages 344 – 360

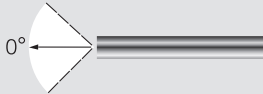
**Units and Transport Cart**

Equipment Cart 29005 LAP  
Transport Cart for POINT SETTER® 20 0200 59

**Exoscope and Illumination**  
Diameter 10 mm, length 11 cm



20 9160 20



20 9160 20

**VITOM® 25 HOPKINS® II Straight Forward Telescope 0°**, working distance 25 – 60 cm, diameter 10 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

**Fiber Optic Light Cables 495 NE, 495 NVB or 495 NVC recommended**



495 NE



495 NVB



495 NVC

495 NE

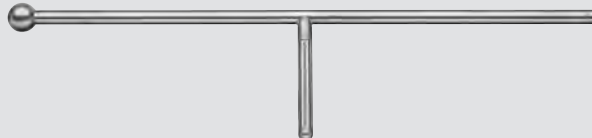
**Fiber Optic Light Cable**, diameter 4.8 mm, length 300 cm

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



20 9180 20

20 9180 20

**VITOM® 25 Distance Rod**, length 25 cm

optional:



20 9170 00

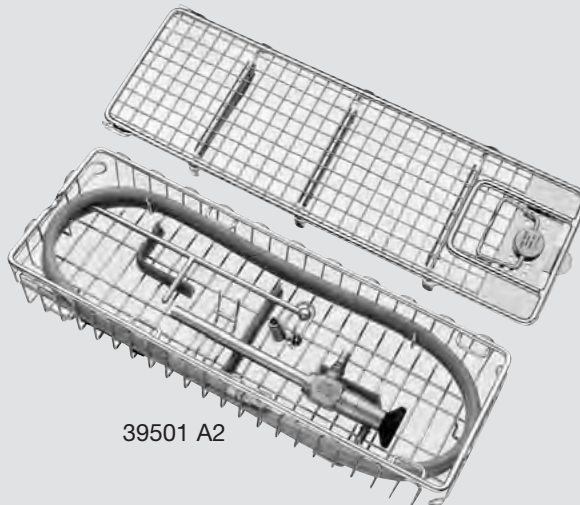
20 9170 00 **VITOM® 25 Illuminator**, for straight forward telescopes 0°, 2 adjustable lenses with holding device for VITOM® 25, **autoclavable**

**Y-Fiber Optic Light Cable 495 UV recommended**



495 UV

495 UV **Y-Fiber Optic Light Cable**, 2x diameter 3.5 mm, length 230 cm, for simultaneous connection of two instruments



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light guide 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

<b>Working distance:</b>	25 – 60 cm	
<b>Depth of view at working distance of:</b> <b>Depth of view:</b>	<b>25 cm</b> approx. 3.5 cm	<b>50 cm</b> approx. 7 cm
<b>Field of view at working distance of:</b> H3-Z camera zoom 1x H3-Z camera zoom 2x	25 cm 5 cm 3.5 cm	50 cm 10 cm 7 cm
<b>Reproduction scale at working distance of:</b>	25 cm	50 cm
<b>26" Monitor:</b> H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 8x approx. 16x	approx. 4x approx. 8x
<b>42" Monitor:</b> H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 14x approx. 28x	approx. 7x approx. 14x
<b>52" Monitor:</b> H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 17x approx. 34x	approx. 8x approx. 16x



Prof. Dr. G. Strauß, IRDC, Leipzig

**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

**Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON and Components/Spare Parts**  
see catalog TELEPRESENCE

**IMAGE1 FULL HD Camera Head for Endoscopy and Microscopy**

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 222010 11U102



222200 55-3

**NEW** 222200 55-3 **50 Hz** **IMAGE1 H3-Z**  
**60 Hz** **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, 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:**

<b>IMAGE1 FULL HD Camera Head</b>	<b>H3-Z</b>
50/60 Hz	222200 55-3
Image sensor	3x 1/3" 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

**IMAGE 1 HUB™ 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 integrated 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 with 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**



**KARL STORZ FULL HD Monitors**



9619 NB



9626 NB/NB-2

KARL STORZ HD and FULL HD Monitors	19"	26"	26"
Wall-mounted with VESA 100-adaption	9619 NB	9626 NB	9626 NB-2
<b>Inputs:</b>			
DVI-D	1x	1x	2x
Fiber Optic	optional	optional	optional
RGBS/VGA	1x	1x	2x
S-Video	1x	1x	2x
Composite	1x	1x	2x
<b>Outputs:</b>			
DVI-D	●	●	●
S-Video	●	●	●
Composite	●	●	●
<b>Displayable Signal Formats:</b>			
4:3	●	●	●
5:4	●	●	●
16:9	●	●	●
Picture-in-Picture	●	●	●
PAL/NTSC compatible	●	●	●

**The following accessories are included:**

- Mains Cord**
- External 24VDC Power Supply**
- Signal Cables:** DVI-D, VGA, S-Video, BNC

**Optional accessories:**

- 9626 SF      **Pedestal**, for 96xx monitor series

**Larger KARL STORZ FULL HD Monitors** see catalog KARL STORZ OR1 NEO™  
**Video Connecting Cables** see catalog TELEPRESENCE

**KARL STORZ WIDEVIEW™ HD Monitors**



9524 N/NO  
9526 N/NO



9524 NB/NBO  
9526 NB/NBO

KARL STORZ HD Flat Screens	24"		26"	
<b>Desktop with pedestal</b>	9524 N	9524 NO	9526 N	9526 NO
<b>Wall-mounted with VESA 100-adaption</b>	9524 NB	9524 NBO	9526 NB	9526 NBO
<b>Inputs:</b>				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
SOG	●	●	●	●
DVI-D	●	●	●	●
Fiber Optic	—	●	—	●
VGA	●	●	●	●
<b>Outputs:</b>				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
DVI-D	●	●	●	●
<b>Displayable Signal Formats:</b>				
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**

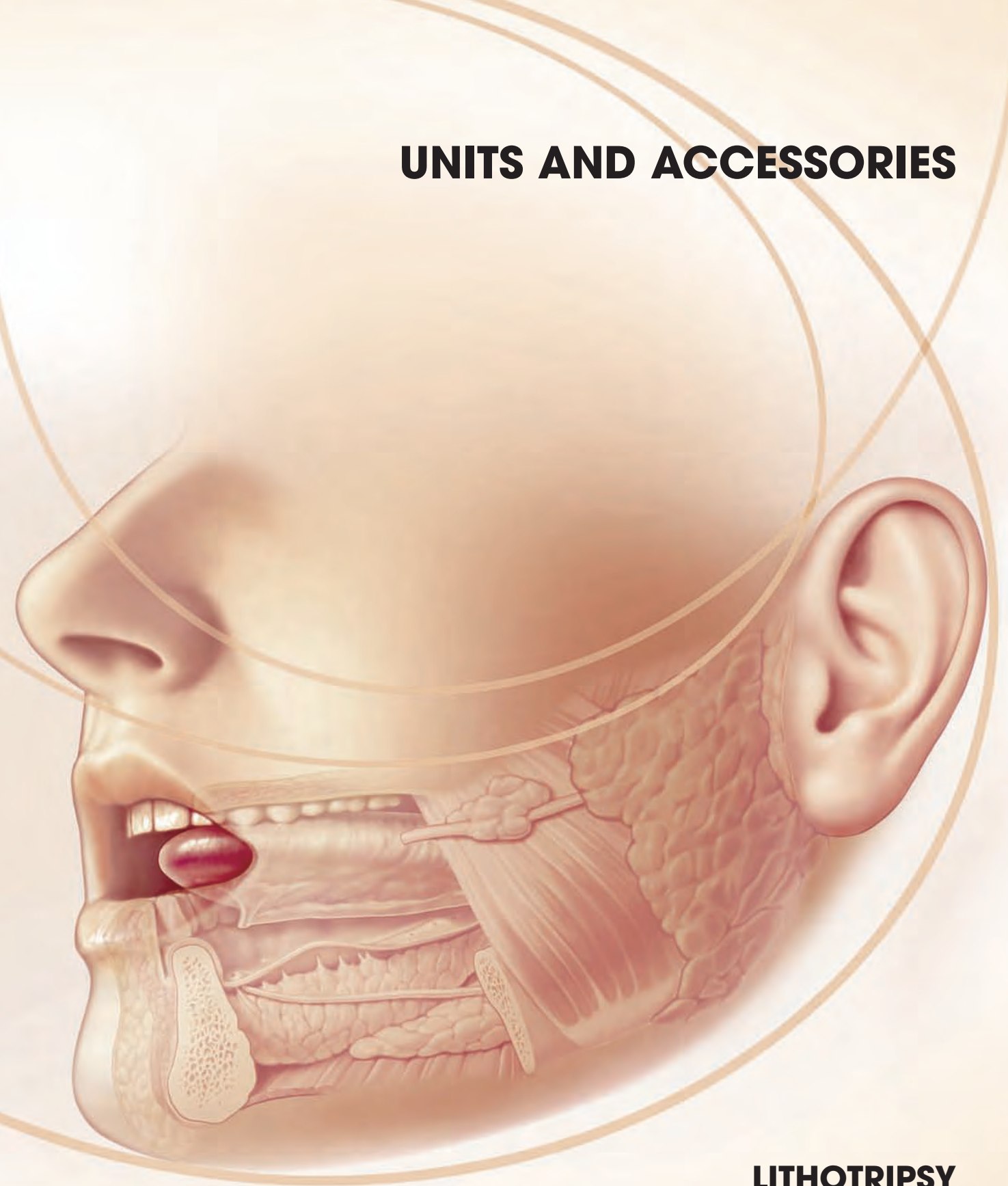
**Signal Cable**

**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

# **UNITS AND ACCESSORIES**



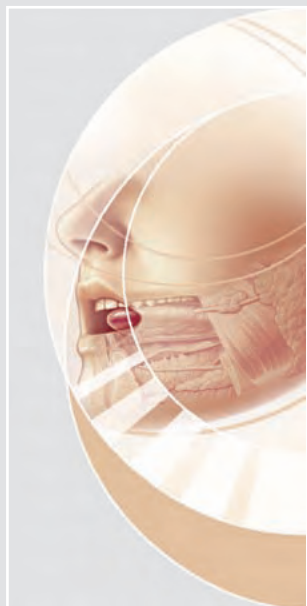
**LITHOTRIPSY**

**SUCTION AND IRRIGATION SYSTEMS**

**MOTOR SYSTEMS**

**HIGH FREQUENCY SURGERY UNITS**





- **LITHOTRIPSY**
- **SUCTION AND IRRIGATION SYSTEMS**
- **MOTOR SYSTEMS**
- **HIGH FREQUENCY SURGERY UNITS**

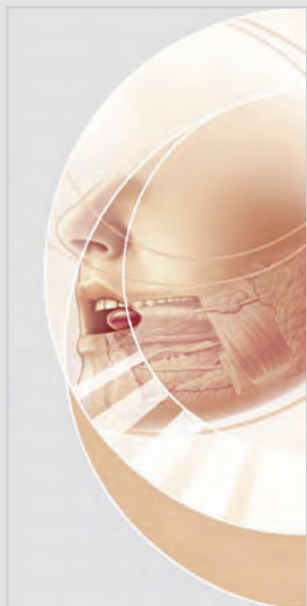
The units manufactured by KARL STORZ combine long-lasting precision mechanics with state-of-the-art micro-electronic programmable controls. At KARL STORZ, the greatest emphasis is placed on user and patient safety. The quality assurance system of KARL STORZ is certified in accordance with the requirements of ISO 9001/EN 46001. It guarantees constant quality testing in the selection of materials and components. At the end of each manufacturing process, tests are carried out with automatic measuring and testing systems developed specially for this purpose. The results are recorded and logged. That gives each device a distinct “fingerprint” that can be checked at any time before and after it is delivered to the customer.

The standardized, modular design of KARL STORZ units was developed based on extensive ergonomic studies and is conceived for ease of care and cleaning and user-friendly practice, as well as to meet the demands of the special hygienic standards required in surgery. Clearly laid out adjacent function keys and displays guarantee efficient operation and make it easier to constantly monitor actual and set parameters. Acoustic and visual warning signals also assist the user. The settings can be changed manually at any time. Automatic microelectronic control systems guarantee optimum operating conditions and therefore relieve the surgeon in his work who can then fully concentrate on medical procedures.

The entire KARL STORZ product line includes the following categories of units with accessories:

- **Insufflators**
- **Suction and Irrigation Systems**
- **Motor Systems**
- **Lithotripsy Systems**
- **Units for High Frequency Surgery**





## ■ LITHOTRIPSY

STORZ MINILITH SL 1

# STORZ MINILITH SL 1

Extracorporeal Lithotripsy of Salivary Stones



LITHOTRIPSY

## STORZ MINILITH SL 1

Extracorporeal Lithotripsy of Salivary Stones

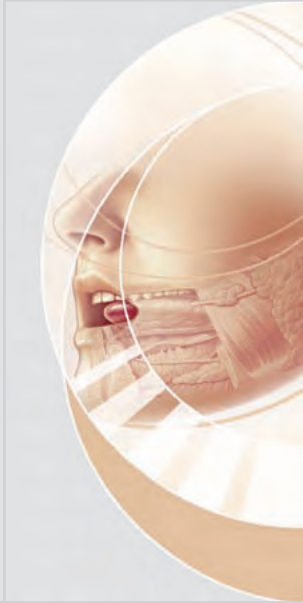
The MINILITH SL 1 from STORZ MEDICAL is the first lithotripter in the world which has been specially developed for the non-invasive therapy of salivary stones. Shock waves, which are generated outside the body, are linked to the body with the aid of a water cushion and are focused so that the stones are targeted precisely. The shock waves are spread over a large surface which prevents damage to tissue.

The MINILITH SL 1 with the well-proven STORZ cylinder source offers ideal conditions for successful treatment, i.e., fine regulation of the electromagnetic shock waves with a parabolic reflector, a specially adapted focus size of 7.5 MHz, inline ultrasound for the greatest possible precision in locating the stones and crushing control, as well as the flexible suspension of the shock wave from an articulated arm for optimum patient comfort and ease of treatment.

**For more information please contact:**

**STORZ MEDICAL AG**  
Lohstampfstrasse 8  
CH-8274 Tägerwilen/Switzerland  
Telefon: 0041/71/677 45 45  
Telefax: 0041/71/677 45 05  
Mail: [info@storzmedical.com](mailto:info@storzmedical.com)  
Home: [www.storzmedical.com](http://www.storzmedical.com)





## ■ SUCTION AND IRRIGATION SYSTEMS

ENDOMAT® LC SCB

DUOMAT®

CLEARVISION® II

# ENDOMAT® LC SCB

Roller Pumps – Irrigation System,  
Recommended System Configuration

## Special Features:

- Simple roller pump system, flow-regulated, for irrigation. To improve visibility during irrigation, the second level of Footswitch 20 0142 30 can be used to activate a flow between 500 and 1000 ml/min.
- SCB model with connections to the KARL STORZ Communication Bus (KARL STORZ-SCB)



**20 3303 01-1 ENDOMAT® LC SCB,**  
power supply 100 – 240 VAC, 50/60 Hz  
including:

### Mains Cord

**Silicone Tubing Set,** for irrigation, sterilizable

**Silicone Tubing Set,** for suction, sterilizable

**SCB Connecting Cable,** length 100 cm


## Recommended optional accessories:

**20 0142 30 One-Pedal Footswitch,** digital, two-stage, for activating a higher flow for improved visibility

**031119-10\* Tubing Set,** for irrigation, sterile, for single use, with two puncture cannulas, package of 10

## Specifications:

Flow, regulated	0-1000 ml/min	Dimensions w x h x d	305 x 110 x 260 mm
Pressure, non-regulated	max. 1125 mmHg (150 kPa)	Weight	4.5 kg
Suction pressure	non-regulated: -0.46 bar (-46 kPa)	Certified to	IEC 601-1, CE acc. to MDD
Power supply	100-240 VAC, 50/60 Hz		

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

**Optional Accessories for ENDOMAT® LC SCB** see pages U 16-17

**Components/Spare Parts** see chapter 16

# ENDOMAT® LC SCB

System Components

One-Pedal  
Footswitch  
(optional)



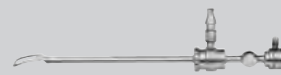
20014230

Silicone Tubing Set



20 3303 40

Optical Dissector



58200 ES

UNIT SIDE

PATIENT SIDE



SUCTION AND  
IRRIGATION SYSTEMS

# DUOMAT®

Suction and Irrigation System,  
Recommended System Configuration

### Special Features:


- Simple, powerful suction and irrigation system for universal use
- Suction bottle with overflow protection
- Low noise level



**20 3210 08** **DUOMAT®**,  
power supply 100 – 120, 230 – 240 VAC, 50/60 Hz  
including:  
**Mains Cord**  
**VACUsafe Promotion Pack Suction\*, 2 l**

### Specifications

Pressure, non-regulated	max. 400 mmHg (53.2 kPa)	Dimensions w x h x d	305 x 110 x 260 mm
Suction pressure	non-regulated: max. (-)0.75 bar (-75 kPa)	Weight	5 kg
Power supply	100-120, 230-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

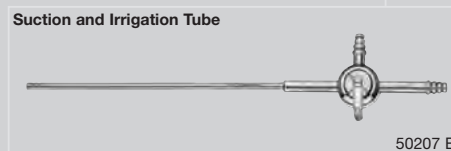
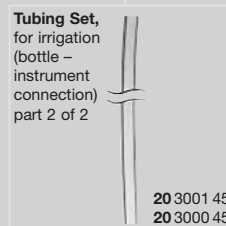
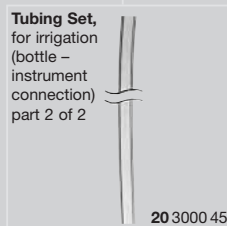
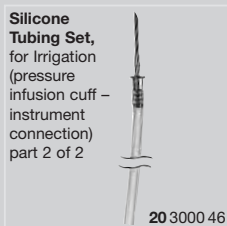
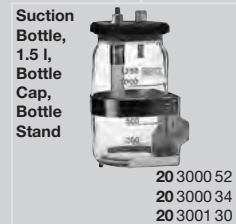
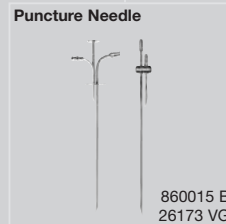
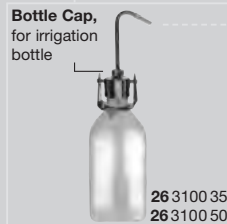
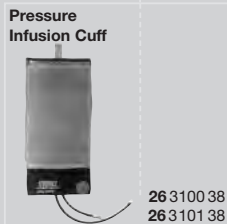
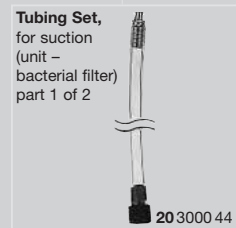
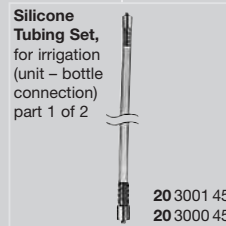
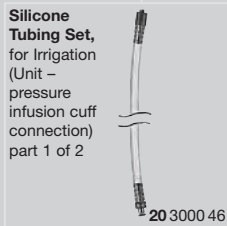
\*  mtp medical technical promotion gmbh,  
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**Optional accessories for DUOMAT®** see pages U 16-17

**Components/Spare Parts** see chapter 16


UNIT SIDE

PATIENT SIDE



SUCTION AND IRRIGATION SYSTEMS

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# CLEARVISION® II

for Intraoperative Cleaning of the Front Lens

## 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 7219 AA/BA/FA

and 7230 AA/BA/FA/CA. 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**

## Recommended System Configuration




- 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 Accessories:

- 031229-10\* **Tubing Set**, sterile, package of 10

### Specifications:

Irrigation	min. 30 min with 1 l irrigation liquid non-regulated flow (ml/min): 40	Dimensions w x h x d	100 x 180 x 70 mm
Power supply	100-240 VAC, 50/60 Hz	Weight	1.5 kg
		Certified to	IEC 601-1, CE acc. to MDD

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**Components/Spare Parts** see chapter 16

# CLEARVISION® II

System Components

One-Pedal  
Footswitch



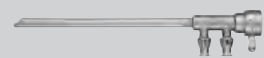
20 0142 30

Silicone Tubing Set



40 3341 40

Irrigation Sheath



7230 FS

UNIT SIDE

PATIENT SIDE

SUCTION AND  
IRRIGATION SYSTEMS

# CLEARVISION® II

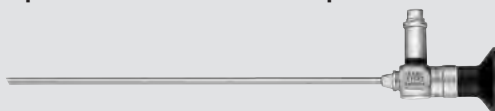
Suction-Irrigation Sheaths for use with CLEARVISION® II System

## Suction-Irrigation Sheaths, proximally reinforced for use with Holder 28272 RKB

Suction-Irrigation Sheath, proximally reinforced for use with Holder 28272 RKB



Compatible HOPKINS® Telescopes



Detail	Order No.	Outer Diameter	Working Length	Order No.	Direction of 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	0°	2.7 mm	18 cm
	7219 BS	3.5 x 4.7 mm	14 cm	7219 BA	30°	2.7 mm	18 cm
	7219 FS	3.5 x 4.7 mm	14 cm	7219 FA	45°	2.7 mm	18 cm
	7219 CS	3.5 x 4.7 mm	14 cm	7219 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



# Holder <sup>NEW</sup>

for use with Irrigation Sheaths for CLEARVISION® II System



28272 RKB

28272 RKB **Holding System, autoclavable**

including:

**Rotation Socket**, to clamp to the operating table, for use with European and United States standard rails, with lateral clamp for height/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

**Clamping Jaw**, metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm

SUCTION AND  
IRRIGATION SYSTEMS

9-05

**Components/Spare Parts** see chapter 16

# Optional Accessories









for Suction and Irrigation Systems

SUCTION AND IRRIGATION SYSTEMS

for use with






ENDOMAT® LC SCB  
20 3303 01-1

DUOMAT®  
20 3210 08

	<b>26 3100 38</b>	<b>Pressure Infusion Cuff, 1.5 l,</b> max. 400 mmHg, sterilizable	-	●
	<b>26 3101 38</b>	<b>Pressure Infusion Cuff, 3 l,</b> max. 400 mmHg, sterilizable	-	●
	<b>26 3100 35</b>	<b>Bottle Cap,</b> sterilizable, for use with irrigation bottles 1 l and 1.5 l, sterile (cylindrical and square) type Abbott and Baxter Laboratories	-	●
	<b>26 3102 35</b>	<b>Bottle Cap,</b> sterilizable, for use with irrigation bottle 1 l, sterile (round), type Fresenius and B. Braun (old type), Delta Pharma (round)	-	●
	<b>26 3103 35</b>	<b>Bottle Cap,</b> sterilizable, for use with irrigation bottle 1 l, sterile (round or square), type B. Braun (old type) and Delta Pharma	-	●
	<b>20 3000 52</b>	<b>Suction Bottle, 1.5 l,</b> sterilizable	-	●
	<b>20 3000 34</b>	<b>Bottle Cap,</b> for suction bottles 1.5 l and 5 l, sterilizable	-	●
	<b>20 3001 30</b>	<b>Bottle Stand,</b> for suction bottle 1.5 l or irrigation bottle 1 l	-	●
	<b>26 3100 50</b>	<b>Irrigation Liquid Bottle, 1 l,</b> sterilizable	-	●
	<b>20 3000 50</b>	<b>Suction Bottle, 5 l,</b> sterilizable	-	●
	<b>20 3000 34</b>	<b>Bottle Cap,</b> for suction bottles 1.5 l and 5 l, sterilizable	-	●
	<b>20 3000 32</b>	<b>Bottle Stand,</b> for suction bottle 5 l	-	●
	<b>20 3000 33</b>	<b>Bottle Stand Holder,</b> for Bottle Stand 20 3000 32	-	●

# Optional Accessories

for Suction and Irrigation Systems

			for use with	
			ENDOMAT® LC SCB 20 3303 01-1	DUOMAT® 20 3210 08
	20 0142 30	<b>One-Pedal Footswitch</b> , digital, two-stage, for activating a higher flow for improved visibility	●	-
	20 0141 30	<b>One-Pedal Footswitch</b> , digital, one-stage, for irrigation	●	-
	20 3000 42	<b>Silicone Tubing Set</b> , for suction, sterilizable	-	●
	20 3000 44	<b>Silicone Tubing Set</b> , for suction, sterilizable, short	-	●
	20 3000 46	<b>Silicone Tubing Set</b> , sterilizable, for use with Pressure Infusion Cuff 26 3100 38, 26 3101 38	-	●
	20 3000 45	<b>Silicone Tubing Set</b> , for irrigation, sterilizable, for use with Bottle Caps 26 3100 35, 26 3102 35, 26 3103 35 and Puncture Needle 26173 VG	-	●
	031124-10*	<b>Bacterial Filter</b> , for single use, package of 10	-	●
	mtp*	<b>Receptacle</b> , reusable, 2 l suction bag, with filter, for single use	-	●
	mtp*	<b>Tubing Set</b> , for suction, sterile, for single use	-	●

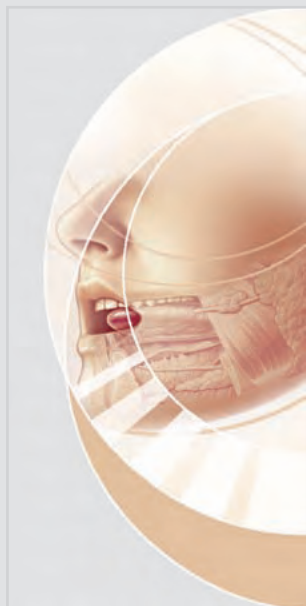
SUCTION AND IRRIGATION SYSTEMS

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## ■ MOTOR SYSTEMS

**UNIDRIVE® OMFS**

**INTRA Drill Handpieces**

**Burrs**

**Micro Saws, Osseo Scalpels**

**Dermatomes**

## UNIDRIVE® OMFS

The Multifunctional Unit for ENT and Oral and Maxillofacial Surgery



- One unit – six functions:
  - Shaver system for surgery of the paranasal sinuses and anterior skull base
  - INTRA Drill
  - Sinus Shaver
  - Micro Saw
  - STAMMBERGER-SACHSE Intranasal Drill
  - Dermatomy
- Two outputs:

Two motor outputs enable the simultaneous connection of two motors, for example, an intranasal drill and a paranasal sinus shaver or two INTRA drill handpieces may be connected in parallel.
- New 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.
- Touch Screen:

Straightforward function selection via touch screen. The unit stores the parameter values of the function selected during the last operation session.
- Optimized user control via touch screen
- Operating elements are simple and clear to read due to color display
- Irrigator rod included
- Continuously variable revolution range
- Maximum number of revolutions and motor torque:

Microprocessor-controlled motor 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®)

### Special Features UNIDRIVE® OMFS

<b>Drilling mode</b> Operation mode: Maximum rev. (min <sup>-1</sup> ):	Counter-clockwise or clockwise Combined with EC Micro Motor 20 7110 32	40,000
<b>Microsaw mode</b> Maximum rev. (min <sup>-1</sup> ):	Combined with EC Micro Motor 20 7110 32	20,000
<b>Bone drill mode</b> Maximum rev. (min <sup>-1</sup> ):	Combined with EC Micro Motor 20 7110 32	60,000
<b>Dermatome mode</b> Maximum rev. (min <sup>-1</sup> ):	Combined with EC Micro Motor 20 7110 32	8,000
<b>Touch Screen:</b> (new for UNIDRIVE® OMFS)	6.4"/300 cd/m <sup>2</sup>	
<b>Power supply:</b>	100 – 120, 230 – 240 VAC, 50/60 Hz	
<b>Dimensions</b> (w x h x d):	304 x 164 x 263 mm	
<b>Weight:</b>	6.1 kg	
<b>Flow:</b>	15 – 125 ml/min.	
<b>Available languages:</b> (for UNIDRIVE® OMFS only)	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish	
<b>Certified to:</b>	IEC 601-1 CE acc. to MDD	

Two outputs for parallel connection of two motors

Integrated irrigation pump

### Special Features EC Micro Motor with INTRA Joint



20 7110 32/20 7111 72

- Self-cooling, brushless high performance EC micro motor
- Smallest possible dimensions
- Autoclavable
- Can be processed in a cleaning machine
- Removable connection cable
- INTRA coupling enables a wide variety of applications
- Maximum torque 4 Ncm
- Number of revolutions can be continuously adjusted from 0 – 40,000 rpm

# UNIDRIVE® OMFS

Recommended System Configuration



20 7118 20-1

40 7118 01-1 **UNIDRIVE® OMFS**, 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 Tubing Set 20 7116 40


**SCB Connecting Cable**

#### Recommended optional accessories:

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

#### Specifications:

Touch screen	6.4"/300 cd/m <sup>2</sup>	Dimensions w x h x d	304 x 164 x 263 mm
Flow	15-125 ml/min.	Weight	6.1 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

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#### Please note:

Care and maintenance of additional motor driven components (high-performance motors, drill handpieces, shaver handpieces) should always be carried out using the universal spray 280052 B+C (not included in delivery). Please place a separate order.



Two-Pedal Footswitch



200166 30

Silicone Tubing Set



207116 40

UNIT SIDE

PATIENT SIDE



EC Micro Motor, with connecting cable



207110 32  
207110 72

INTRA Drill Handpiece



252475 – 252495

Micro Saw



254000 – 254300





Dermatome



253000 – 253300

## Optional Accessories

for UNIDRIVE® OMFS

	<b>20 7110 32</b>	<b>High Performance EC Micro Motor</b>
	<b>20 7111 72</b>	<b>Connecting Cable</b> , for connecting EC Motor <b>20 7110 32</b> to control unit
	<b>280052</b>	<b>Universal Spray</b> , 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
	<b>280052 C</b>	<b>Spray Diffuser</b> , for use with Universal Spray 280052
	<b>031131-10*</b>	<b>Tubing Set</b> , for irrigation, for single use, sterile, package of 10



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# INTRA Drill Handpieces

**Special Features:**

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 rpm
- Detachable irrigation channels
- Light construction
- Operates with little vibrations
- Low maintenance
- Can be processed in a cleaning machine
- Safe grip



252475



252490



252495



20 7110 32/20 7111 72



280052

252475

**INTRA Drill Handpiece**, angled, length 12.5 cm, for use with straight shaft burs, transmission 1:1 (40,000 rpm)

252490

**INTRA Drill Handpiece**, straight, length 8.7 cm, for use with straight shaft burs, transmission 1:1 (40,000 rpm)

252495

**INTRA Drill Handpiece**, straight, long shape, length 10.4 cm, for use with straight shaft burs, transmission 1:1 (40,000 rpm)

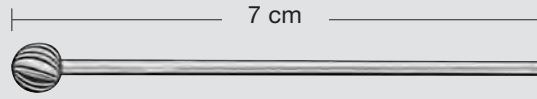
280052

**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

High-Performance EC Micro Motor 20 7110 32 and Connecting Cable 20 7111 72 see page U 24  
Components/Spare Parts see chapter 16

# Burrs

**Straight Shaft Burrs,  
length 7 cm**

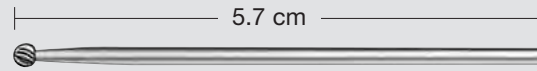


Detail	Size	Dia. mm	Standard	Tungsten Carbide	Transverse Tungst. Carb.	Diamond	Diamond, coarse
	006	0.6	260006	261006	–	262006	–
	007	0.7	260007	261007	–	262007	–
	008	0.8	260008	261008	–	262008	–
	010	1	260010	261010	–	262010	–
	014	1.4	260014	261014	261114	262014	–
	018	1.8	260018	261018	–	262018	–
	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
- 262000 **Diamond 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
- 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

## Burrs

### Straight Shaft Burrs, length 5.7 cm



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

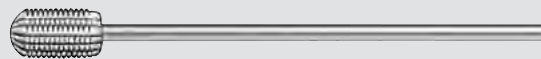
649600 K **Standard Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11

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



265050 – 265070



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

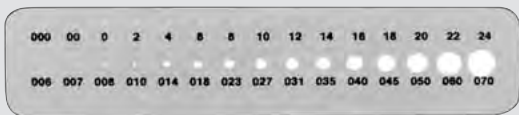
## Burrs and Burr Accessories

LINDEMANN Burrs, conical, stainless, length 7 cm



Size	Dia. mm	conical
		sterilizable
014	1.4	263514
021	2.1	263521
023	2.3	263523

### Burr Accessories



280090



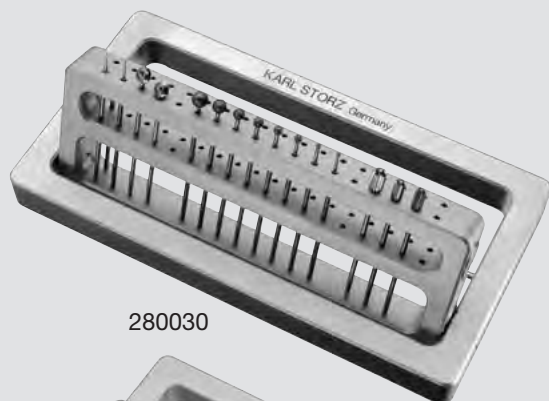
280080



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

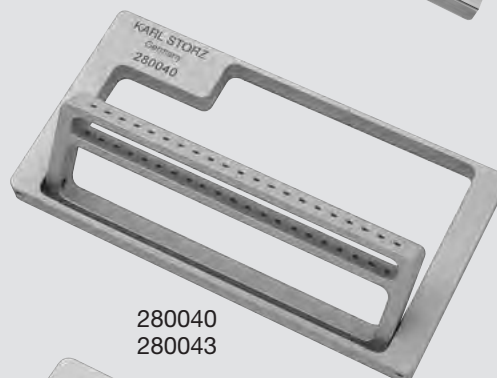
## Burr Accessories



280030



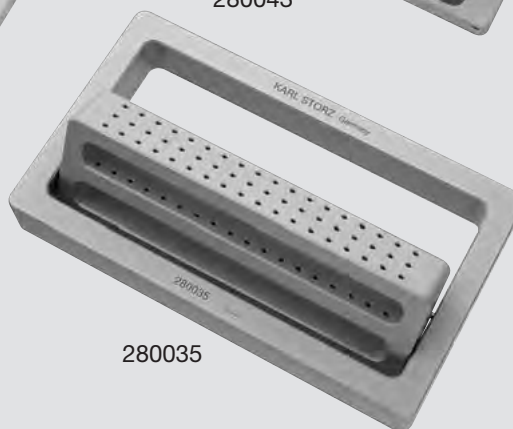
280030 K



280040  
280043



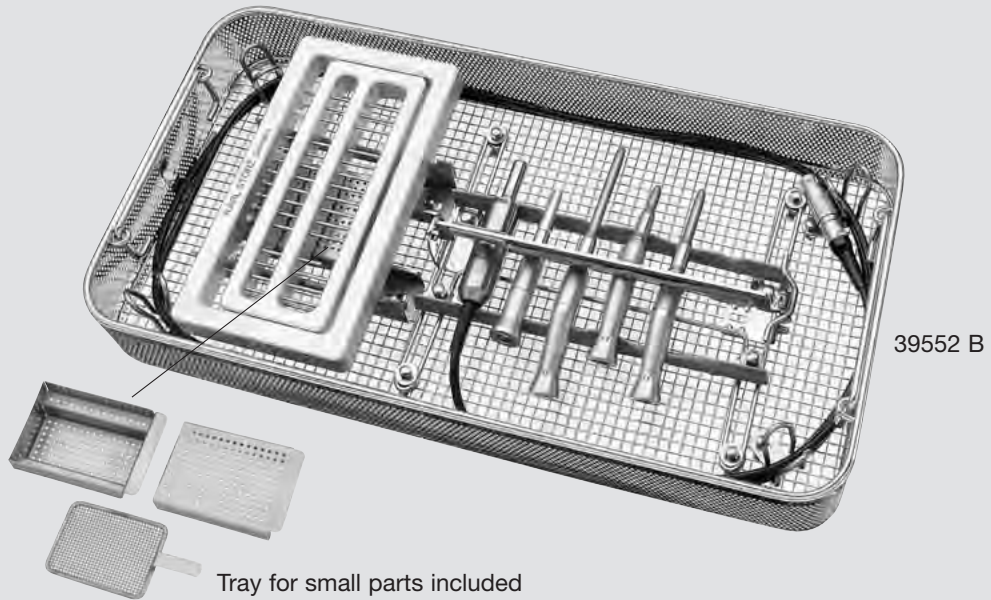
280033  
280034



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 pieces) and 7 cm (18 pieces), 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 instruments displayed are not included in the rack.



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

**Please note:** The instruments displayed are not included in the trays.



## Micro Saws, Osseo Scalpels



254100



20 7110 32/20 7110 72

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 32/20 7110 72

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

High Performance EC Micro Motor 20 7110 32 and Connecting Cable 20 7110 72 see page U 24

# Micro Compass Saws



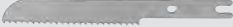

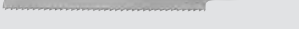


254300

20 7110 32/20 7110 72

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	<b>Saw Blade</b> , blade thickness 0.25 mm, working length 11 mm, package of 12, for use with 254300
	254313	<b>Same</b> , working length 14 mm
	254314	<b>Same</b> , working length 18 mm
	254315	<b>Same</b> , working length 22 mm
	254316	<b>Same</b> , working length 26 mm

## Oscillating Micro Saws



254000



20 7110 32/20 7110 72

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



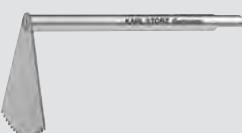
254024

**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

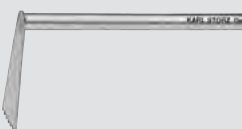
**Same**, width of blade 15 mm



254030

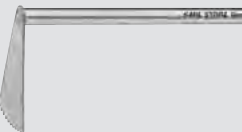
**Same**, blade thickness 0.15 mm, width of blade 6 mm

### Saw Blades, long shaft, for use with 254000



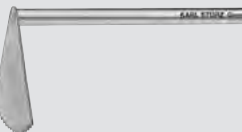
254027

**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

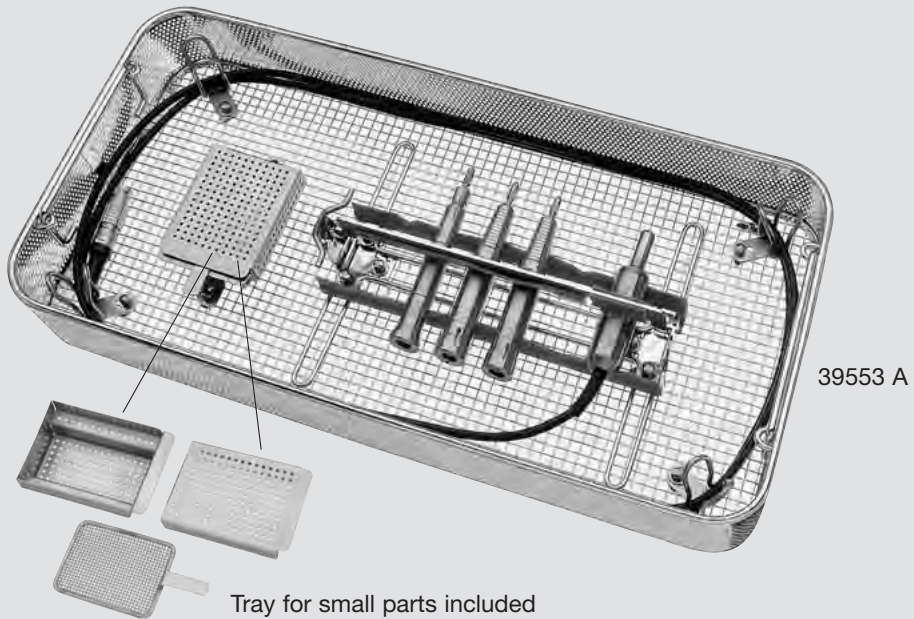
**Same**, width of blade 15 mm



254031

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

High Performance EC Micro Motor 20 7110 32 and Connecting Cable 20 7110 72 see page U 24



- 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

**Please note:** The instruments displayed are not included in the 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 32/20 7110 72



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

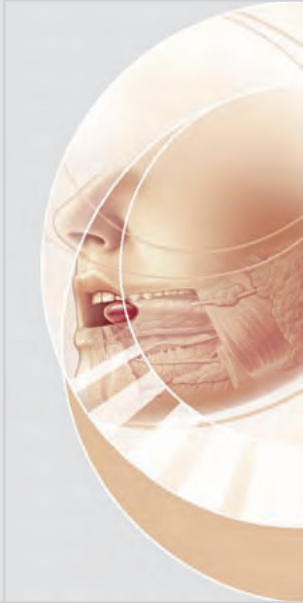
High Performance EC Micro Motor 20 7110 32 and Connecting Cable 20 7110 72 see page U 24



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

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



## ■ HIGH FREQUENCY SURGERY UNITS

**NEW** AUTOCON® II 400 SCB

**NEW** AUTOCON® II 200

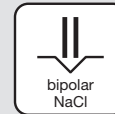
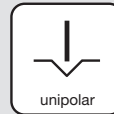
**NEW** AUTOCON® II 80





## Special Features:

- For interdisciplinary use
- Cutting-edge next-generation unit with a convenient, easy-to-disinfect touch screen
- Bi-Vascular-Safe mode for bipolar coagulation and thermofusion of large-lumen vessels
- Equipped with 2 bipolar or 2 unipolar HF outputs depending on unit
- Defibrillator-safe CF outputs for maximum patient and user safety
- Permanent safety due to continuous monitoring of the contact between the neutral electrode and the patient during unipolar use
- 2 freely programmable foot pedals can be connected simultaneously
- Automatic activation of HF energy or via handswitch or footswitch depending on mode used
- Self-test for maximum patient and user safety
- Unit versions for standard use, bipolar resection and thermofusion of large-lumen vessels according to individual user requirements
- Up to 28 pre-programmed procedures for a wide range of disciplines make the unit extremely simple to operate. 100 program memories are available for individual programming.



### **Integrated voltage stability control or arc control**

The two state-of-the-art generators both guarantee optimal surgical cutting and coagulation power that adapts continuously to the particular indication, especially when there are wide variations in the tissue structures and tissue impedances. At the press of a button, the operator can switch between arc control (TOP Cut mode) and voltage stability control (POWER Cut mode).

### **TOP Cut mode**

In this mode, the HF energy required for a cutting effect is automatically reduced to the necessary physical minimum in each individual case. The electric arc always remains at a constant level, thus ensuring a uniform surgical effect. Such precise work offers a clear safety advantage and produces a cut that conserves tissue and reduces stress for the patient.

This increased safety with the AUTOCON®II 400 SCB unit is achieved by using the latest and fastest micro-processor and sensor technology, which enables the unit to capture all the important parameters, such as variable incision speed, geometry of the active electrode, different impedance behavior of biological tissue types and fluids, and transition and contact resistances. This data is then used to adjust the HF power output and HF voltage. This means that the operator is not restricted in his work or obliged to adapt to the HF unit. On the contrary, the HF unit adapts optimally to all the user's application and operating techniques.

### **POWER Cut mode with constant HF voltage and power**

This mode ensures a uniform surgical effect and consistent cutting efficiency over a wide impedance range and many different tissue types.

### **RAM system – return electrode application monitoring**

This safety system continuously monitors the contact quality between the neutral electrode and the patient's skin, and additionally indicates it with symbols. If the contact surface area decreases, the safety system gives an early visual and acoustic alarm, thus preventing a burn under the application site of the patient electrode. To increase the contact reliability of the neutral electrode, the user can prevent the application of single-faced electrodes.

### **Gastro Cut and Papillo Cut**

These two new resection modes, which were specially developed by KARL STORZ for use in flexible endoscopy, permit a fractionated and controlled cut with no bleeding. The special HF generator technology allows controlled output of cutting and coagulation pulse current. Both the pulse sequence and the pulse speed can be set separately and specifically for each mode.

### **LF/HF leakage currents**

Stray currents and the associated risk of burns are minimized by design measures.

### **SCB- and OR1™-compatible**

The units are designed for integration in the KARL STORZ Communication Bus (SCB). Full integratability of the HF unit in the networked, and even speech-controlled, operating room of the future is already a standard feature (system requirement: RUI software release 2009001-26 or later).

### **C-Cut® mode and LAP-C-Cut mode – the intermittent coagulation-cutting mode with AUTOCON®II 400 SCB**

Designed for blood-free cutting during laparoscopy and when using irrigation liquids, the electric current is specially modulated and offers a reproducible coagulation current with high cutting efficiency. This makes time-consuming subsequent coagulation a thing of the past. Using the C-Cut® mode thus reduces the need for blood transfusions and saves surgery time. The result is an overall reduction in operating costs, and for the patient it means additional protection.

### **Bipolar generator with 370 W HF power**

This outstanding performance range allows the unit to be used in conjunction with the newly developed bipolar special and standard accessories. This high-end unit is even suitable for indications using irrigation liquids, which in the past could only be performed with special-purpose HF systems. The safety of the bipolar technology from KARL STORZ eliminates the need for applying a neutral electrode, including for interventions which used to be standard unipolar procedures.

### **Unipolar generator with 300 W HF power**

With a peak power of 300 watts, the AUTOCON®II 400 SCB is ideally equipped for interventions in all areas of use.

# AUTOCON® II 400 SCB <sup>NEW</sup>

Safety and Special Features

## Precise power setting and power limitation

Exact fine tuning in 1 W steps is provided for interventions requiring maximum precision with very low power.

## Up to 8 hemostatic effects

Individual selection of up to 8 hemostatic effects for unipolar and bipolar cutting, each with up to 370 W output, permits optimal control of coagulation and the surgical effect in every situation.

## Forceps auto-start function

When the forceps tips contact the tissue, bipolar coagulation is activated automatically after a freely adjustable delay of up to 9.9 seconds.

## 6.5" touch screen

The color touch screen makes the AUTOCON®II 400 SCB the world's first HF unit with this new, user-friendly operating technology. It also offers the important advantage of very easy cleaning and wipe-down disinfection.

## 100 program memories

Simple programming of the indication-related unit parameters makes the AUTOCON®II 400 SCB easy and intuitive to operate because all the programs can be stored in numeric order or text-based with user name and indication. The stored programs can be called up in the indication list at the touch of a button.

## Bipolar coagulation auto-stop function

Automatic power shutdown when the coagulation procedure has been ended.

## Self-test program

A comprehensive software safety concept ensures smooth, safe use after switching on. Detected component faults are indicated by an error code display, enabling rapid troubleshooting. The self-test also includes the connected accessories for the specific purpose of minimizing waiting times in preoperative work-up.

## Software upgrade

The service port on the back of the unit allows the HF functions of the AUTOCON®II 400 SCB to be expanded economically for future forms of HF treatment. This means that the AUTOCON®II 400 SCB is always up-to-date.



# AUTOCON® II 400 SCB, <sup>NEW</sup> AUTOCON® II 200/80

Special Features

**STORZ**  
KARL STORZ — ENDOSKOPE

Special Features:	AUTOCON® II 400 SCB	AUTOCON® II 200	AUTOCON® II 80
Degree of coagulation (effect) can be preselected in several steps: The degree of coagulation measures extent of coagulation depth	●	●	-
Bi-Vascular-Safe mode for bipolar coagulation and thermofusion of large-lumen vessels	●	-	-
Easy to use due to automatic mode selection thanks to recognition of instrument-cable connection	●	-	-
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	●	-	-
Autostart function: Manual adjustment of operating time limit for bipolar coagulation	●	●	-
Voltage-regulated cutting	●	●	-
Arc-controlled cutting, unipolar	●	-	-
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 for unipolar or bipolar	●	●	-
Bipolar resection with KARL STORZ bipolar electrotomes	●	-	-
Bipolar application with NaCl irrigation solution	●	-	-
Modular 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)	●	-	-
Service port for software updates and HF functionality upgrades	●	-	-

# AUTOCON® II 400 SCB <sup>NEW</sup>

Specifications

HF Modes	Effects	P max. at 500 Ohm	V <sub>p</sub> max. at 500 Ohm	Crest Factor	Arc Control	Voltage Control
<b>Unipolar</b>						
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	–	●
<b>Bipolar</b>						
Bipolar-Cut	8	100	740	1.4	–	●
Saline-C-Cut	8	370	770	1.4	–	●
Saline-C-Cut ++*	8	300 (at 750 Ohm)	490	1.4	–	●
Saline-Time-C-Cut	8 time 0.1-1 sec.	370	770	1.4	–	●
Saline-Time-C-Cut ++*	8	300 (at 750 Ohm)	490	1.4	–	●
Saline Coag	8	200 (at 50 Ohm)	190	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	–	●
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	300 (at 25 Ohm)	220	1.4	–	●

\*Only for units with additional resection module

\*\*with software package "Bi-Vascular-Safe"

**Specifications:**

Safety systems	<ul style="list-style-type: none"> <li>- Automatic self-test</li> <li>- Maldosage</li> <li>- Neutral electrode safety system (dynamic, two-part, one- and two-part NE)</li> <li>- LF/HF leakage current monitor</li> <li>- Activation time</li> <li>- Deactivable HF</li> </ul>	Power supply	<b>20 5352 2x-12x:</b> 220-240 VAC, 50/60 Hz <b>20 5352 2xU12x:</b> 100-120 VAC, 50/60 Hz
		Dimensions w x h x d	448 x 164 x 345 mm
		Weight	10 kg
		Certified to	IEC 60601-1, CE acc. to MDD

# AUTOCON® II 400 SCB <sup>NEW</sup>

High Frequency Surgery Unit,  
Recommended System Configurations



**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,**  
power supply 100 – 120 VAC, 50/60 Hz  
including:  
**Mains Cord**  
**SCB Connecting Cable,** length 100 cm

Application	Standard: Unipolar/Bipolar	High-End
Unit version	-122 (220 – 240 VAC) U122 (100 – 120 VAC)	-125 (220 – 240 VAC) U125 (100 – 120 VAC)
Product No.	<b>20 5352 01-122</b> <b>20 5352 01U122</b>	<b>20 5352 01-125</b> <b>20 5352 01U125</b> basic unit
	–	<b>20 5352 02-125</b> <b>20 5352 02U125</b> basic unit, incl. additional resection module
	–	<b>20 5352 03-125</b> <b>20 5352 03U125</b> basic unit, incl. Bi-Vascular-Safe mode
	–	<b>20 5352 04-125</b> <b>20 5352 04U125</b> basic unit, incl. additional resection module + Bi-Vascular-Safe mode

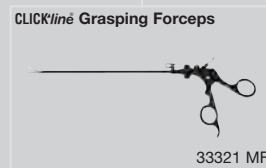
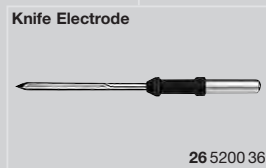
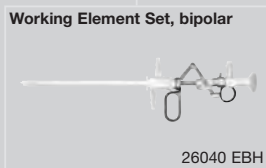
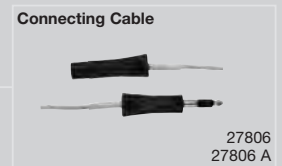
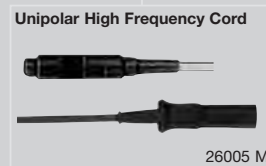
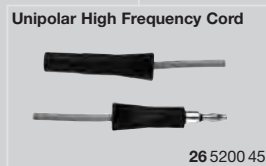
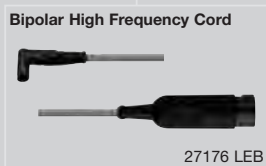
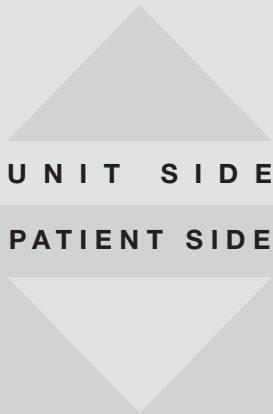
### Socket Position

1	Bipolar Combination 	Bipolar Combination 
2	Bipolar Combination 	Bipolar Multifunction 
3	Unipolar 3-pin and Erbe 	Unipolar 3-pin and Erbe 
4	NE 6.3 mm jack and 2-pin 	NE 6.3 mm jack and 2-pin 

Optional Accessories for AUTOCON® II 400 SCB see page U 50  
Components/Spare Parts see chapter 16

# AUTOCON® II 400 SCB <sup>NEW</sup>

System Components



1-12

HIGH FREQUENCY SURGERY UNITS

# AUTOCON® II 200 <sup>NEW</sup>

High Frequency Surgery Unit,  
Recommended System Configurations



- 20 5322 01 **AUTOCON® II 200**, power supply  
200 – 240 VAC, 50/60 Hz  
including:  
**Mains Cord**
- 20 5322 01 C **AUTOCON® II 200**, power supply  
100 – 120 VAC, 50/60 Hz  
including:  
**Mains Cord, US version**
- 20 5322 01-010 **AUTOCON® II 200**, with GASTRO-Cut,  
power supply 200 – 240 VAC, 50/60 Hz  
including:  
**Mains Cord**
- 20 5322 01C010 **AUTOCON® II 200**, with GASTRO-Cut,  
power supply 100 –120 VAC, 50/60 Hz  
including:  
**Mains Cord, US version**

**Specifications:**

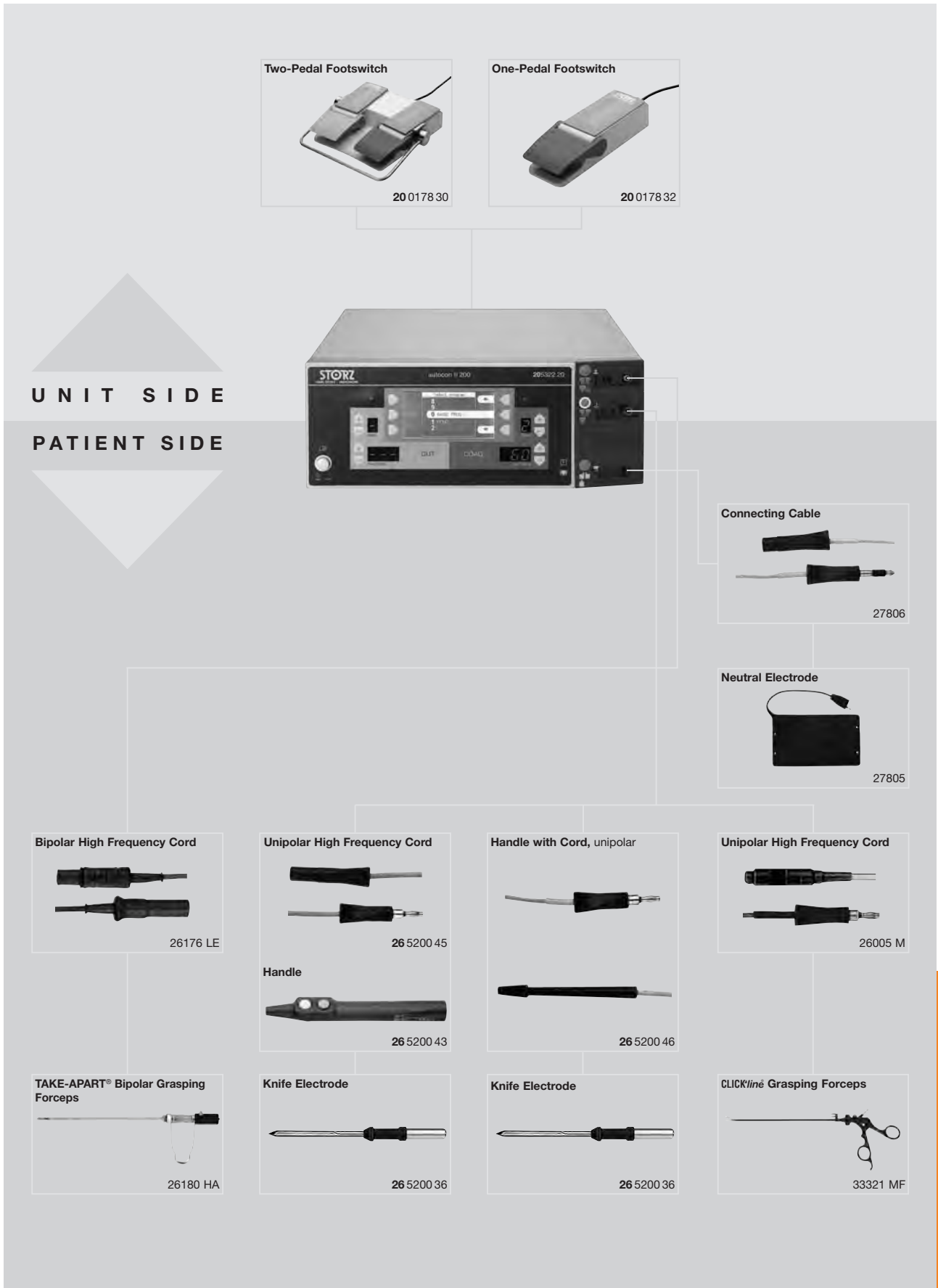
HF rated power	<p><b>- Cutting</b> Power-Cut (unipolar): 220 Watt/500 Ohm GASTRO-Cut (unipolar): 200 Watt/75 Ohm</p> <p><b>- Coagulation</b> Standard-Coag (unipolar): 120 Watt/50 Ohm Forced-Coag (unipolar): 120 Watt/500 Ohm Standard-Coag (bipolar): 120 Watt/75 Ohm</p>
Max. voltage	<p><b>- Cutting</b> Power-Cut (unipolar): 740Vp GASTRO-Cut (unipolar): 550Vp</p> <p><b>- Coagulation</b> Standard-Coag (unipolar): 190Vp Forced-Coag (unipolar): 1800Vp Standard-Coag (bipolar): 190Vp</p>
Degree of coagulation	<p>Power-Cut: 8 GASTRO-Cut: 4 Standard-Coag: 8 Forced-Coag: 4 Bipolar Standard-Coag: 8</p>

Autostart	<b>Coagulation</b> bipolar
Autostop	<b>Coagulation</b> unipolar standard
Safety systems	<ul style="list-style-type: none"> <li>- permanent power control</li> <li>- maldosage</li> <li>- neutral electrode safety system</li> <li>- automatic Self-Test</li> </ul>
Power supply	100-120 VAC or 200-240 VAC, 50/60 Hz
Dimensions w x h x d	410 x 165 x 385 mm
Weight	10 kg
Certified to	IEC 60601-1, CE acc. to MDD

**Optional Accessories for AUTOCON® 200** see page U 50  
**Components/Spare Parts** see chapter 16



**AUTOCON® II 200** *NEW*  
System Components



1-12

HIGH FREQUENCY SURGERY UNITS

**AUTOCON® II 80** <sup>NEW</sup>  
 High Frequency Surgery Unit,  
 Recommended System Configurations



**20 5308 01**    **AUTOCON® II 80,**  
 power supply 100 – 240 VAC,  
 50/60 Hz  
 including:  
**Mains Cord**

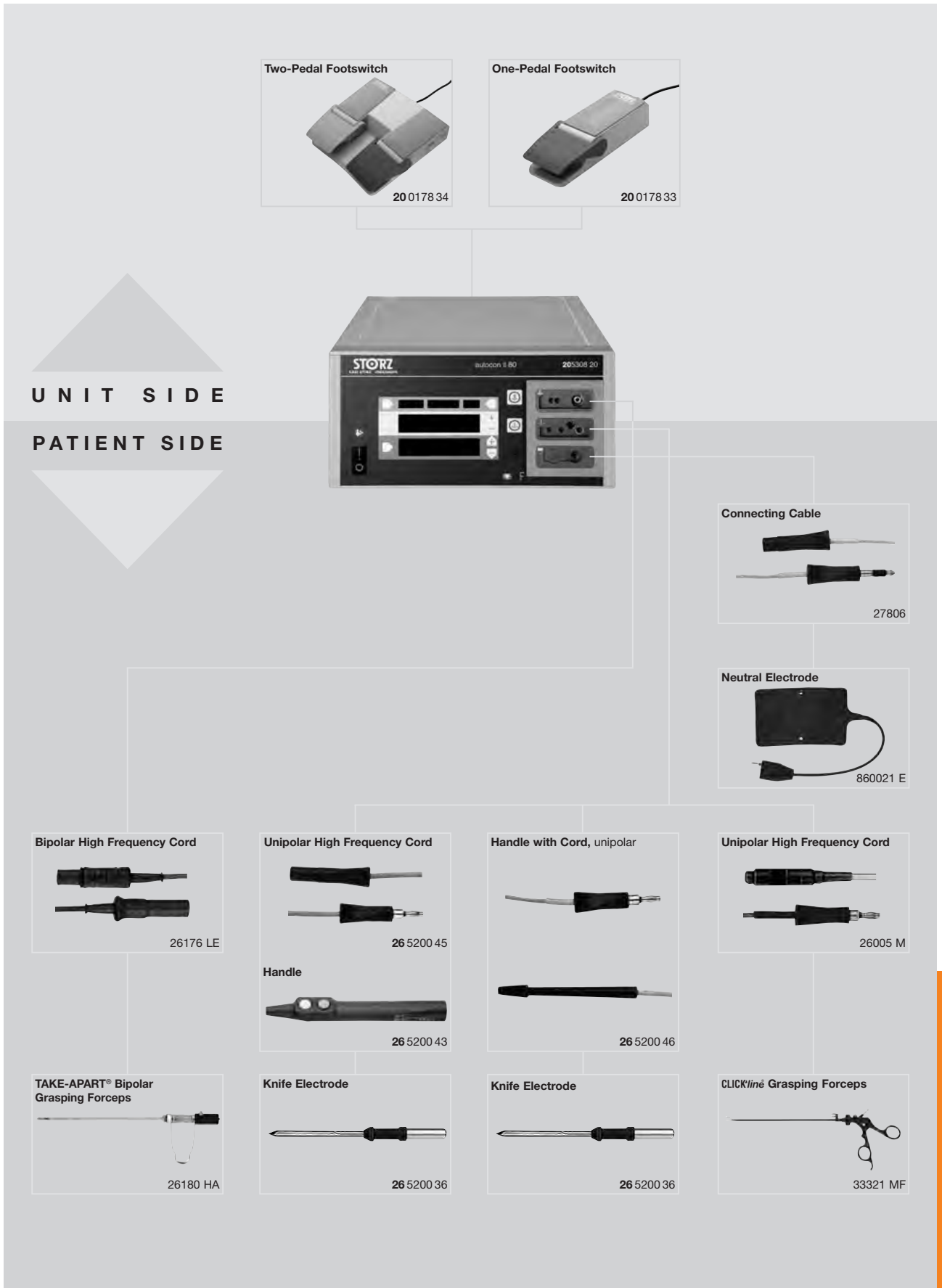
**Specifications:**

HF rated power	<ul style="list-style-type: none"> <li>- Dry Cut: 80 Watt/500 Ohm</li> <li>- Forced Coag: 50 Watt/500 Ohm</li> <li>- Soft Coag: 80 Watt/100 Ohm</li> <li>- Auto Cut: 80 Watt/500 Ohm</li> <li>- Bipolar Soft: 80 Watt/100 Ohm</li> </ul>	Safety systems	<ul style="list-style-type: none"> <li>- permanent power control</li> <li>- maldosage</li> <li>- neutral electrode safety system</li> <li>- automatic self-test</li> </ul>
Max. voltage	<ul style="list-style-type: none"> <li>- Dry Cut: 830Vp</li> <li>- Forced Coag: 1200Vp</li> <li>- Soft Coag: 180Vp</li> <li>- Auto Cut: 500Vp</li> <li>- Bipolar Soft: 180Vp</li> </ul>	Power supply	100-240 VAC, 50/60 Hz
		Dimensions w x h x d	280 x 135 x 300 mm
		Weight	4 kg
		Certified to	IEC 60601-1, CE acc. to MDD

**Optional accessories for AUTOCON® 80** see page U 50  
**Components/Spare Parts** see chapter 16

# AUTOCON® II 80 <sup>NEW</sup>

System Components



1-12

HIGH FREQUENCY SURGERY UNITS

# Optional Accessories

for AUTOCON® II 400 SCB and AUTOCON® II 200/80

			for use with		
			AUTOCON® II 400 SCB	AUTOCON® II 200	AUTOCON® II 80
	20017831	<b>Three-Pedal Footswitch</b> , with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB	●	-	-
	20017830	<b>Two-Pedal Footswitch</b> , for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	-
	20017832	<b>One-Pedal Footswitch</b> , for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	-
	20017834	<b>Two-Pedal Footswitch</b> , digital, one-stage	-	-	●
	20017833	<b>One-Pedal Footswitch</b> , digital, one-stage	-	-	●
	27805	<b>Neutral Electrode</b> , of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm <sup>2</sup> , for use with Connecting Cable 27806	●	●	●
	860021 E	<b>Neutral Electrode</b> , of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm <sup>2</sup> , for use with Connecting Cable 27806	-	-	●
	27806	<b>Neutral Electrode Connecting Cable</b> , for Neutral Electrodes 27805 and 860021 E, length 400 cm	-111 -115 -122 -125	●	●
	27806 UR	<b>Neutral Electrode Connecting Cable</b> , for Neutral Electrode 27805	-112 -116 -122 -125	●	●
	27806 US	<b>Neutral Electrode Connecting Cable</b> , for Neutral Electrode 27802	-112 -116 -122 -125	●	●
	27802	<b>Neutral Electrode</b> , for single use, contact surface divided into two, A = 169 cm <sup>2</sup> , package of 50, Connecting Cable 27801 required	●	●	●
	27801	<b>Connecting Cable</b> , for connecting Neutral Electrode 27802, length 500 cm	-111 -115 -122 -125	●	●
	26520043	<b>Electrode Handle</b> , with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable 26520045 required)	●	●	●
	26520045	<b>High Frequency Cable</b> , for Electrode Handle 26520043, length 400 cm	-111 -115 -122 -125	●	●
	26520046	<b>Electrode Handle</b> , without buttons, with integrated connecting cable, length 300 cm	-111 -115 -122 -125	●	●

# Surgery Electrodes Set

Accessories



20 5300 08

**Surgery Electrodes Set**  
including:

**Container with Lid and  
Sterilizing 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**



**Same, lancet-shaped**



**Ball Electrode, 2 mm**



**Same, 4 mm**



**Same, 6 mm**



**Needle Electrode**



**Flat Electrode, 8 x 10 mm**



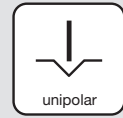
**Same, 10 x 15 mm**

1-12

For use with Electrode Handles 26 5200 43 and 26 5200 46  
Components/Spare Parts see chapter 16

# Accessories

## Unipolar High Frequency Cords



### Unipolar High Frequency Cords

KARL STORZ High Frequency  
Instruments Surgery Units

	26002 M	<b>Unipolar High Frequency Cord</b> , with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
	26004 M	<b>Unipolar High Frequency Cord</b> , with 4 mm plug for models Berchtold and Martin, length 300 cm
	26005 M	<b>Unipolar High Frequency Cord</b> , with 5 mm plug 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, length 300 cm
	26006 M	<b>Unipolar High Frequency Cord</b> , with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

**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 **ML**, 26176 **LVL**.





# Accessories

## Bipolar High Frequency Cords


### Bipolar High Frequency Cords



KARL STORZ High Frequency  
Instruments Surgery Units

	<p>26176 LE <b>Bipolar High Frequency Cord</b>, 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</p>
	<p>26176 LM <b>Bipolar High Frequency Cord</b>, for Martin and Berchtold coagulators, length 300 cm</p>
	<p>26176 L <b>Bipolar High Frequency Cord</b>, with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm</p>
	<p>26176 LA <b>Bipolar High Frequency Cord</b>, with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm</p>
	<p>26176 LV <b>Bipolar High Frequency Cord</b>, for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm</p>



	<p>205400 21 <b>BiVascularClamp</b>, total length 20 cm, with thermoinsulation, for open surgery, integrated MF cable length 4 m</p>
	<p>205400 22 <b>Same</b>, total length 21 cm, with corrugated jaws</p>
	<p>205400 23 <b>Same</b>, total length 27 cm</p>

# Compatibility

High Frequency Cords to AUTOCON® HF Surgical Units

<b>AUTOCON® II 80</b>	20 5308 20	–	20 5308 20	–	–
<b>AUTOCON® II 200</b>	20 5225 20 20 5225 20C 20 5225 20-010 20 5225 20C010	–	20 5225 20 20 5225 20C 20 5225 20-010 20 5225 20C010	–	–
<b>AUTOCON® II 400 SCB</b>	20 5352 20-111 20 5352 20-115	20 5352 20-112 20 5352 20-116	20 5352 20-122	20 5352 20-125 20 5352 21-125	20 5352 22-125 20 5352 23-125

## Unipolar High Frequency Cords

27806	●	–	●	●	●
27801	●	–	●	●	●
27806 UR	–	●	●	●	●
27806 US	–	●	●	●	●
26 5200 45	●	–	●	●	●
26 5200 46	●	–	●	●	●
26002 M	●	●	●	●	●
26005 M	●	–	●	●	●
26006 M	–	●	–	–	–

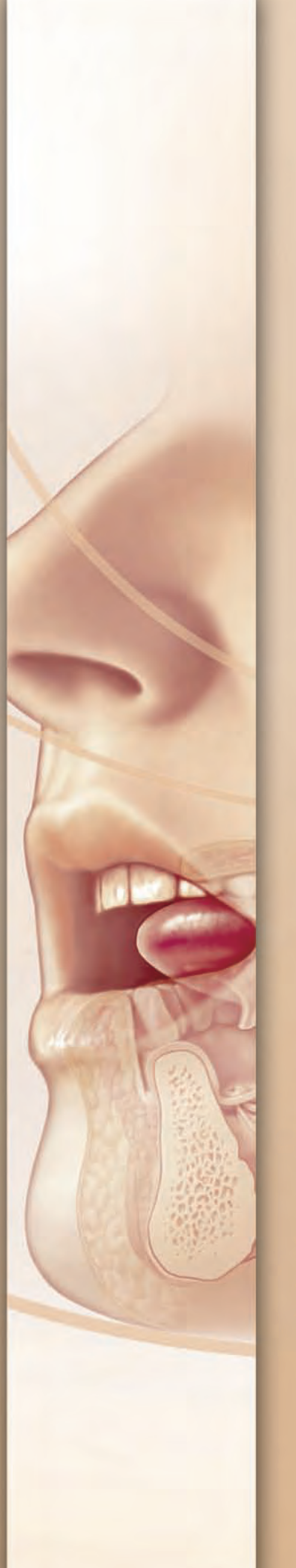
## Bipolar High Frequency Cords

26176 LE	●	–	●	●	●
26176 LV	–	●	●	●	●

## Bipolar High Frequency Cords/Instruments to Multifunction Socket

<b>AUTOCON® II 400</b>	20 5352 20-115	20 5352 20-116	–	20 5352 20-125 20 5352 21-125	20 5352 22-125 20 5352 23-125
20 5400 21	–	–	–	–	●
20 5400 22	–	–	–	–	●
20 5400 23	–	–	–	–	●





## **COMPONENTS SPARE PARTS**

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

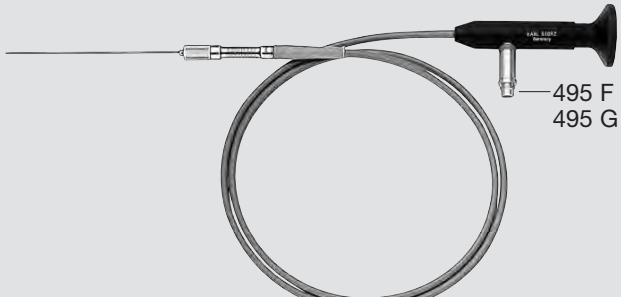
For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.



### 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.

### Example:

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<b>11577 A</b>	<b>Miniature Straight Forward Telescope 0°</b>	126

Spare Parts	
	<b>495 F Receptacle,</b> diameter 9 mm, for Wolf fiber optic light cable
	<b>495 G Screw Base,</b> for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

*Spare parts assigned to instrument with catalog page reference and order numbers for individual components/spare parts*

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Optical Dissectors, Telescope Sheaths	SP 8

### RHINO-FIBERSCOPES

SP 9

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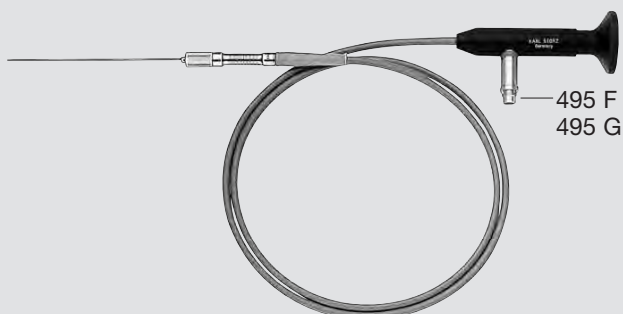
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# Telescopes

## Miniature Telescopes

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### Spare Parts

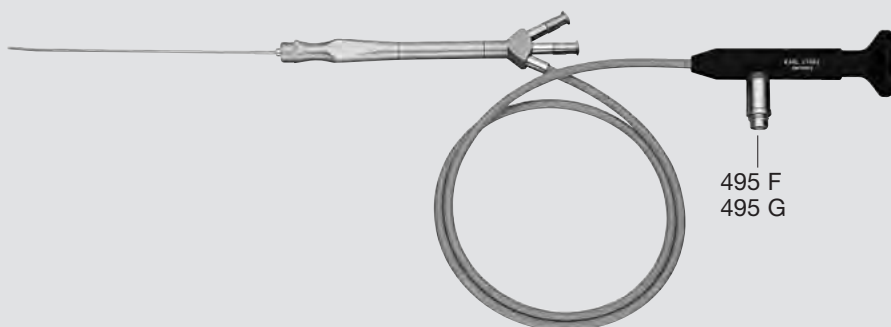


495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable



495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
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11578 A	Miniature Straight Forward Telescope 0°	60
11581 A	Miniature Straight Forward Telescope 0°	123
11582 A	Miniature Straight Forward Telescope 0°	123
11583 A	Miniature Straight Forward Telescope 0°	123



### 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

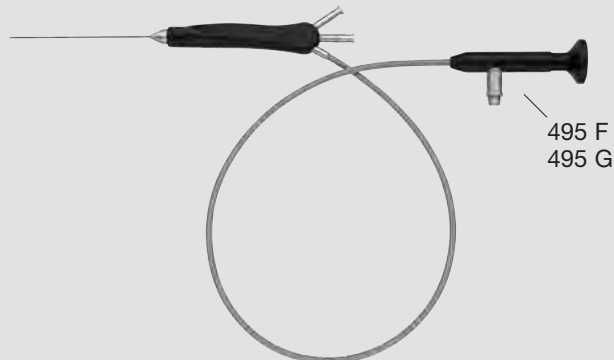
# Telescopes

Miniature Telescopes, HOPKINS® Telescopes

## Components / Spare Parts

Catalog page

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### Spare Parts



495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable

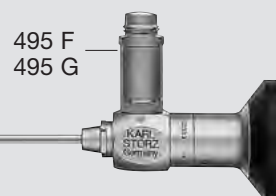


495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe

## Components / Spare Parts

Catalog page

58705 AA	HOPKINS® Straight Forward Telescope 0°	56
58705 BA	HOPKINS® Forward-Oblique Telescope 30°	57



### Spare Parts



495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable



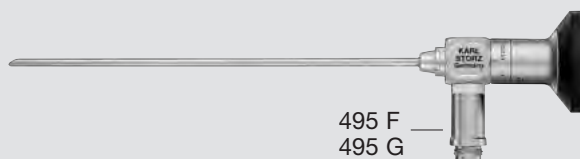
495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe



# Telescopes

HOPKINS® II Telescopes

Components / Spare Parts		Catalog page
7219 AA	HOPKINS® II Straight Forward Telescope 0°	65
7219 BA	HOPKINS® II Forward-Oblique Telescope 30°	65
7219 CA	HOPKINS® II Lateral Telescope 70°	65
7219 FA	HOPKINS® II Forward-Oblique Telescope 45°	65
7220 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	64
7220 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	64
7220 CA	HOPKINS® II Lateral Telescope 70°, enlarged view	64
7220 FA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	64



## Spare Parts

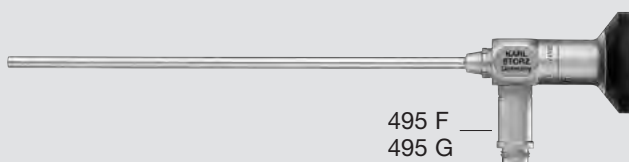


495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable



495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
7230 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	38, 63
7230 AWA	HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view	62
7230 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	38, 63
7230 BWA	HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view	38, 62
7230 CA	HOPKINS® II Lateral Telescope 70°, enlarged view	63, 91
7230 CWA	HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view	62
7230 DA	HOPKINS® II Lateral Telescope 90°, enlarged view	63
7230 EA	HOPKINS® II Retrograde Telescope 120°, enlarged view	63
7230 FA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	63
7230 FWA	HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view	62



## 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

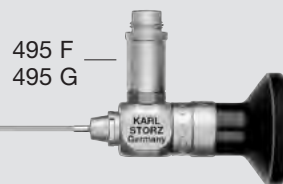
# Telescopes

HOPKINS® II and HOPKINS® Telescopes

## Components / Spare Parts

Catalog page

7207 BA	HOPKINS® II Forward-Oblique Telescope 30°	92
1232 BA	HOPKINS® Forward-Oblique Telescope 30°	92



## Spare Parts



495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable

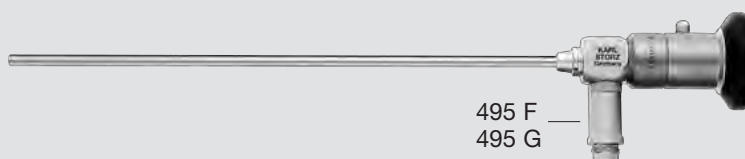


495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe

## Components / Spare Parts

Catalog page

7230 AP	HOPKINS® II Straight Forward Telescope 0°, enlarged view	327
7230 BP	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	327
7230 FP	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	327
8712 AP	HOPKINS® II Straight Forward Telescope 0°, enlarged view	328
8712 BP	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	328
8712 CP	HOPKINS® II Lateral Telescope 70°, enlarged view	328
8711 AP	HOPKINS® Straight Forward Telescope 0°	328
8710 AP	HOPKINS® Straight Forward Telescope 0°	328



## 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

# Telescopes

Tele-Laryngoscopes, Tele-Laryngo-Pharyngoscopes

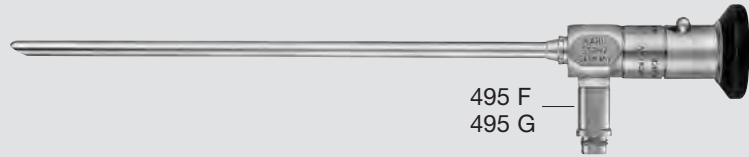
Components / Spare Parts

Catalog page

8700 CP

Tele-Laryngoscope

329



## 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

8707 DP

Tele-Laryngo-Pharyngoscope

329



## 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

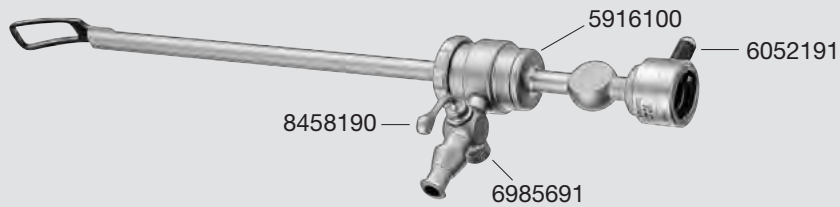
# Telescopes

Optical Dissectors, Telescope Sheaths

Components / Spare Parts

Catalog page

<b>58200 ER</b>	<b>Optical Dissector</b>	40
<b>58200 ES</b>	<b>Optical Dissector</b>	40



Spare Parts



**5916100**  
**O-Ring**



**6985691**  
**Spring Cap**



**6052191**  
**Locking Lever**

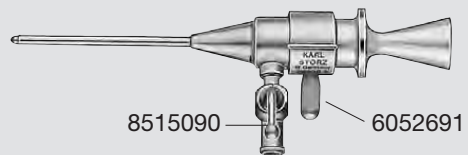


**8458190**  
**Stopcock**

Components / Spare Parts

Catalog page

<b>58706 AN</b>	<b>High-Flow Arthroscope Sheath</b>	56
<b>58706 BN</b>	<b>High-Flow Arthroscope Sheath</b>	57



Spare Parts



**6052691**  
**Locking Lever**



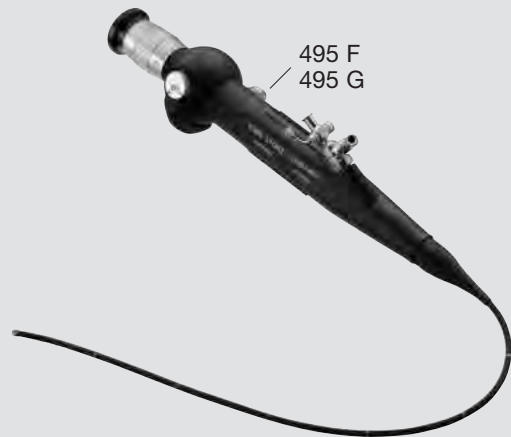
**8515090**  
**Stopcock**



**6985691**  
**Spring Cap**

# Rhino-Fiberscopes

Components / Spare Parts		Catalog page
11001 RD	Rhino-Laryngo-Fiberscope, 3.5 x 340 mm	140
11101 RP	Rhino-Pharyngo-Laryngo-Fiberscope, 3.5 x 300 mm	140
11101 SK	Rhino-Laryngo-Fiberscope, 2.5 x 270 mm	140
11101 SP	Rhino-Laryngo-Tracheo-Fiberscope, 2.5 x 370 mm	140



## 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

# Grasping Forceps and Scissors

CLICK'line® Outer Sheaths with Working Inserts, Flexible Forceps

Components / Spare Parts

Catalog page

**50220 R**      **CLICK'line® Outer Sheath, insulated**

47, 48



## Spare Parts



29100  
**Plug**, for LUER-Lock connector for cleaning, black, autoclavable, package of 10



7909890  
**Halfround Plate**



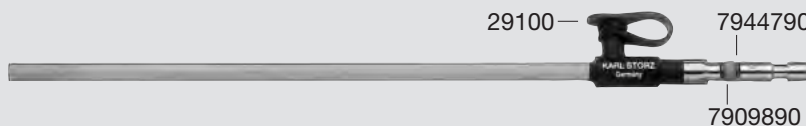
7944790  
**Silicone Ring**

Components / Spare Parts

Catalog page

**50220 T**      **CLICK'line® Metal Outer Sheath**

46



## Spare Parts



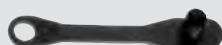
29100  
**Plug**, for LUER-Lock connector for cleaning, black, autoclavable, package of 10



7909890  
**Halfround Plate**



7944790  
**Silicone Ring**



8240990  
**Plug**, single, for LUER-Lock connection for cleaning, black, autoclavable

# Grasping Forceps and Scissors

CLICK'liné Outer Sheaths with Working Inserts, Flexible Forceps

## Components / Spare Parts

Catalog page

50221 GW	CLICK'liné Outer Sheath with Scissors Insert	49
50222 F	CLICK'liné Outer Sheath with Forceps Insert	48
50222 GG	CLICK'liné Outer Sheath with Forceps Insert	49
50222 GW	CLICK'liné Outer Sheath with Forceps Insert	47, 49
50235 GW	CLICK'liné Outer Sheath with Scissors Insert	49
50236 GW	CLICK'liné Outer Sheath with Forceps Insert	49



## Spare Parts



29100  
**Plug**, for LUER-Lock connector for cleaning, black, autoclavable, package of 10

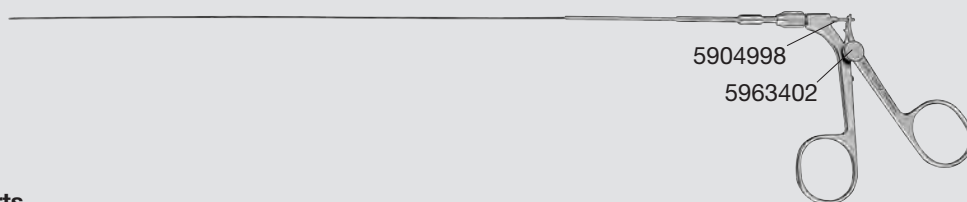


8240990  
**Plug**, single, for LUER-Lock connection for cleaning, black, autoclavable

## Components / Spare Parts

Catalog page

11576 TJ	Foreign Body Forceps	128
11576 ZJ	Biopsy Forceps	128
11583 TJ	Foreign Body Forceps	128
11583 ZJ	Biopsy Forceps	128



## Spare Parts



5904998  
**Seal**, diameter 0.8 mm



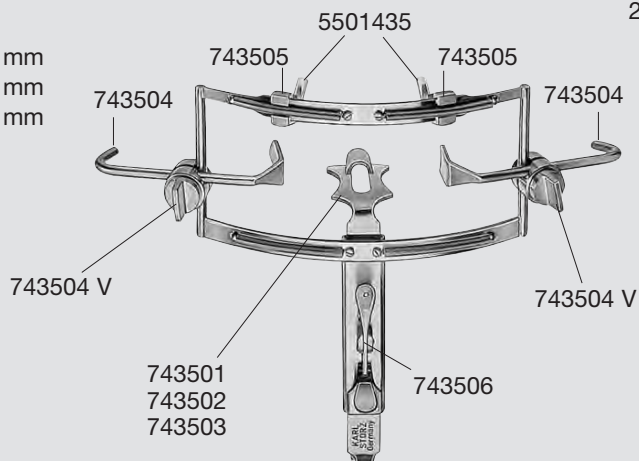
5963402  
**Knurled Screw**

# Mouth Gags and Cartilage Cutting Blocks

## Components / Spare Parts

Catalog page

- 743500** DINGMANN Mouth Gag 211
- 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 Parts

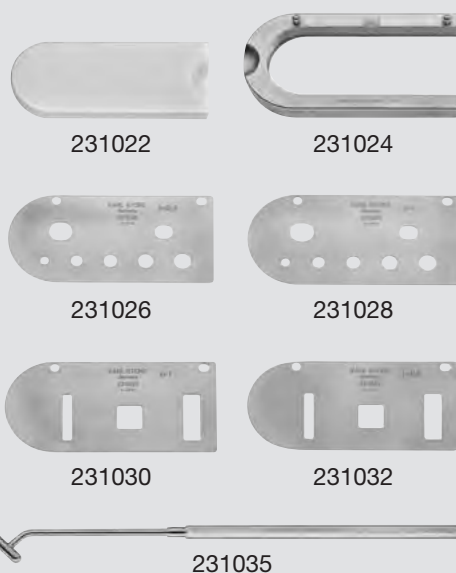


5501435  
**Silicone Tubing**

## Components / Spare Parts

Catalog page

- 231020** MILEWSKI Cartilage Cutting Block 231
- 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



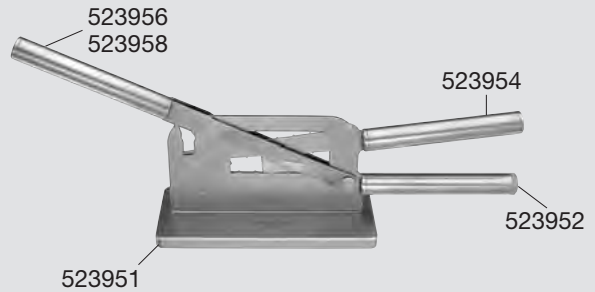


## CartCut® Cartilage Cutter

Components / Spare Parts

Catalog page

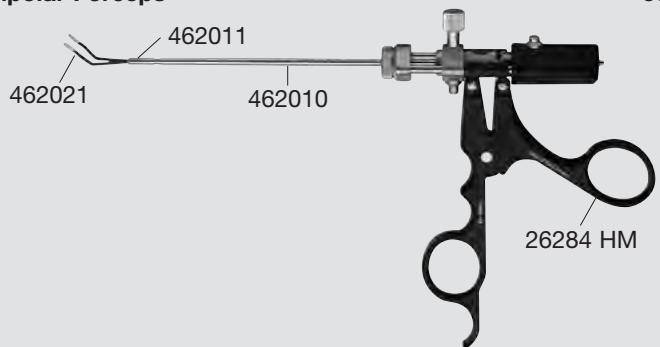
- 523950** SCHMÄL CartCut® Cartilage Cutter 288
- 523951 **Holding Device**
- 523952 **Cleaning Adaptor**
- 523954 **Holding-down Clamp**
- 523956 **Knife, 1 mm**
- 523958 **Knife, 2 mm**



Components / Spare Parts

Catalog page

- 462020** TAKE-APART® CASTELNUOVO Bipolar Forceps 301
- 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**



# Headmirrors

## Headbands

### Components / Spare Parts

Catalog page

- 074090**      **Headmirror Standard**
- 074091      **Headmirror, diameter 90 mm**
- 074095      **Headband, narrow**

314

- 075090**      **Headmirror Standard**
- 074091      **Headmirror, diameter 90 mm**
- 075095      **Headband, wide**

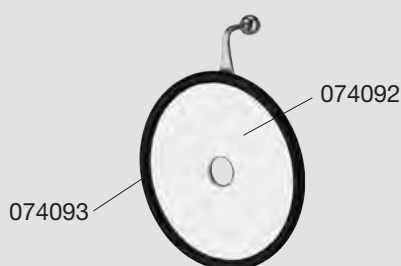


### Components / Spare Parts

Catalog page

- 074091**      **Headmirror, diameter 90 mm**

314



### 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**

314

314



### Spare Parts



075096  
**Knurled Cap,** for ball joint



075097  
**Brake Cylinder, 3-part,**  
for ball joint

# Headmirrors

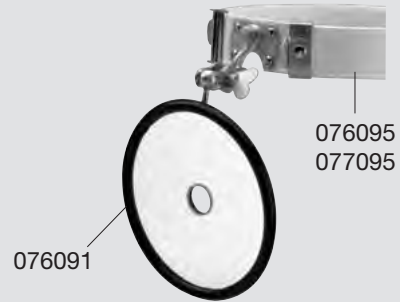
## Headbands

### Components / Spare Parts

Catalog page

- 076090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 076095 **Headband**, narrow

- 077090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 077095 **Headband**, wide

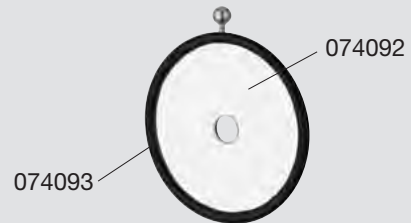


314

### Components / Spare Parts

Catalog page

- 076091** **Headmirror**, diameter 90 mm



314

### 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



314

314

### Spare Parts



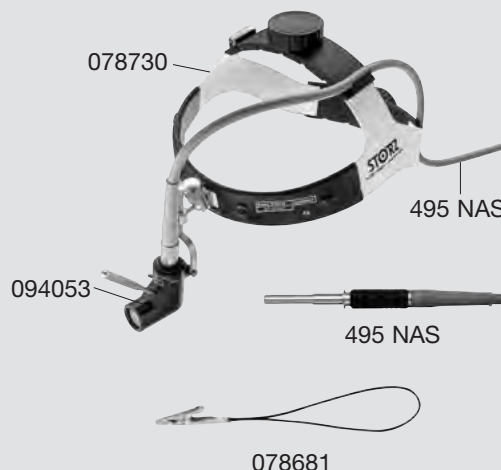
077096  
**Double Joint**

# Headlights

Components / Spare Parts

Catalog page

- 094051 Headlight** 319
- 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 light source, diameter 3.5 mm, length 230 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



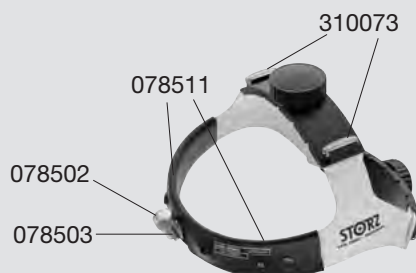
## Headlights

Components / Spare Parts

Catalog page

**078730** Headband, for 094051 and 094055

319, 324



### 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

319



### Spare Parts



**084508**  
**Suspension,**  
with cross connection,  
for 084500 – 084503



**094005**  
**Handle,** sterilizable,  
with sleeve



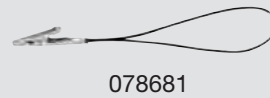
**5915702**  
**Thread Pin,** for lamp head

# Headlights

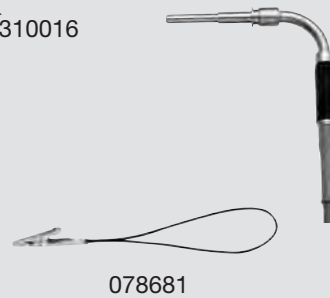
Components / Spare Parts

Catalog page

- 310010**     **Headlight**, with straight plug
- 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

320, 324

## Spare Parts



078511  
**Forehead Cushion**, with push-button lock



## Headlights

Components / Spare Parts Catalog page

**310020** **Headlight**, with straight plug 320

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

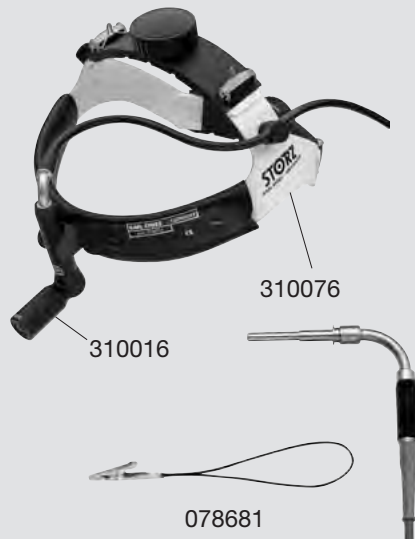


**310025** **Headlight**, with 90° deflection

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 320, 324



### 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

# Headlights

Components / Spare Parts

Catalog page

- 094301**      **Headlight**, with straight plug
- 094302      **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



- 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
- 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





## Headlights

Components / Spare Parts Catalog page

- 094325**      **Headlight**, with 90° deflection
- 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

321, 322, 324



### Spare Parts



**078511**  
**Forehead Cushion**,  
with push-button lock

# Headlights

## LED Headlights

### Components / Spare Parts

Catalog page

- 094100**      **LED Headlight**, with white light
- 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

317



### Spare Parts



094108 B  
**Cover**, for Battery Box 094108



121306 P  
**Photo Battery**, lithium, 3 V, CR 123 A

Spare Parts for Headbands, see page SP 24

# Headlights

## LED Headlights

### Components / Spare Parts

Catalog page

- 094120**     **LED Headlight**, with white light 317
- 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 317



### 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

10-11

Spare Parts for Headbands, see page SP 24

# Headlights

LED Headlights

Components / Spare Parts

Catalog page

**078760**      **Headband**, for 094100, 094110, 094120 and 094130

317, 324



## 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

# Headlights

## Headlights "CLAR 73"

Components / Spare Parts

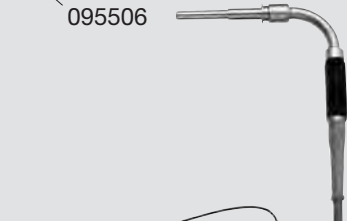
Catalog page

- 095501      **Headlight "CLAR 73"**, with straight plug
- 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



078681

- 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



078681

Spare Parts for Headlight and Headbands see following pages

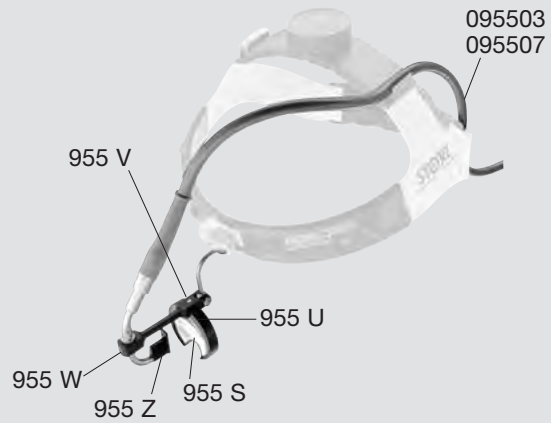
# Headlights

Headlights "CLAR 73"


Components / Spare Parts

Catalog page

095502	<b>Headlight "CLAR 73", with straight plug</b>	323
095506	<b>Headlight "CLAR 73", with 90° deflection</b>	323



## Spare Parts

	955 S <b>Mirror</b>
	955 U <b>Metal Holder,</b> for mirror
	955 V <b>Fixation Screw,</b> for metal holder (mirror)
	955 W <b>Fixation Screw,</b> for fiber optic light cable
	955 Z <b>Fixation Screw, set of 2</b>

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

# Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

**078730**      **Headband**, for 095501 and 095505

323, 324



## 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

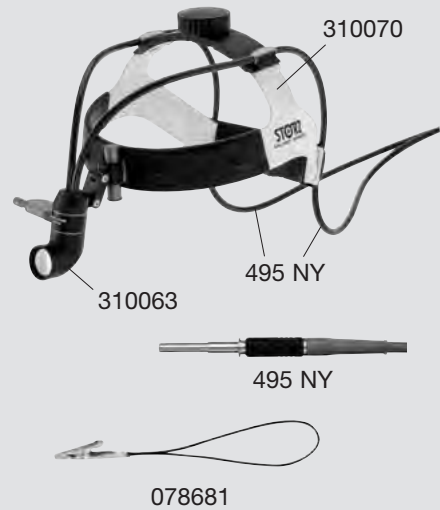
# Headlights

## Headlights KS60

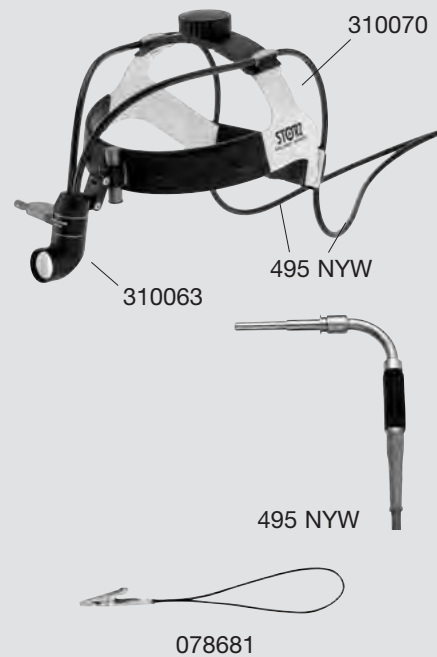
Components / Spare Parts

Catalog page

- 310060**      **Headlight KS60** 318
- 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 light source, length 290 cm
- 078681      **Clip with Band**, for attaching the fiber optic light cable to OR clothing





# Headlights

Headlights KS60

Components / Spare Parts

Catalog page

**310070**      **Headband**, for 310060 and 310061

318, 324



## 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

318



## Spare Parts



310065  
**Handle**, with focusing  
screw, sterilizable

# Headlights

Headlights "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



315

Components / Spare Parts

Catalog page

- 087290**     **Headband**, wide, for "CLAR 55"

315



## Spare Parts



087294  
**Velcro Strips**, for fastening  
inside Headband 087290,  
length 11.5 cm



087296  
**Knurled Cap**, for ball joint,  
for 087290



087295  
**Cushion**, for Velcro  
fastener



087297  
**Brake Cylinder**, 3-part,  
for ball joint, for 087290

# Headlights

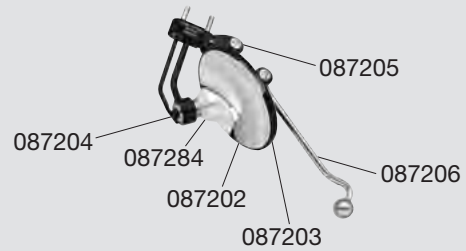
Headlights "CLAR 55"

Components / Spare Parts

Catalog page

**087201** Headlight "CLAR 55"

315



## Spare Parts



**087202**  
**Mirror**



**087203**  
**Mirror Tray**



**087204**  
**Lamp Holder,**  
with plug connector



**087205**  
**Adaptor,** between mirror  
tray and lamp holder



**087206**  
**Suspension Device**



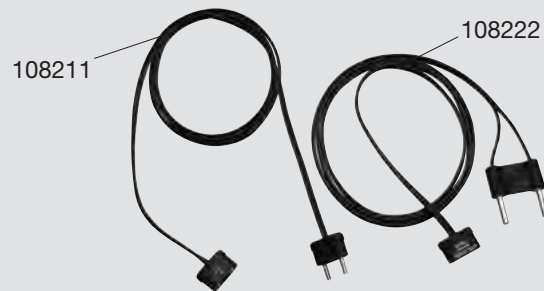
**087284**  
**Spare Lamp,** spherical,  
diameter 17.5 mm, 6 V, 1 A

Components / Spare Parts

Catalog page

**108210** Headlight Cable, complete

315



## Spare Parts



**108211**  
**Upper Headlight Cable,**  
length 120 cm, with  
Mignon adaptor for  
connection to Headlights  
084400, 084900, 087200  
and Mignon plug



**108214**  
**Mignon Plug,** male



**108213**  
**Mignon Coupling,** female



**108222**  
**Lower Headlight Cable,**  
with 25 mm flat plug,  
length 120 cm

# Nasal Specula

Components / Spare Parts

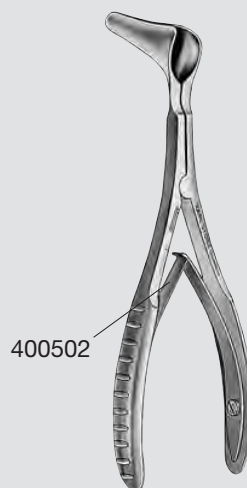
Catalog page

400500	HARTMANN Nasal Speculum	244
400600	HARTMANN Nasal Speculum	244
402000	HALLE-TIECK Nasal Speculum	244
403540	KILLIAN-STRUYCKEN Nasal Speculum	245
403555	KILLIAN-STRUYCKEN Nasal Speculum	245
403565	KILLIAN-STRUYCKEN Nasal Speculum	245
403575	KILLIAN-STRUYCKEN Nasal Speculum	245
403590	KILLIAN-STRUYCKEN Nasal Speculum	245
403630	COTTLE Nasal Speculum	246
403655	COTTLE Nasal Speculum	246
403675	COTTLE Nasal Speculum	246
403690	COTTLE Nasal Speculum	246

Spare Parts



400502  
**Spring**, for nasal speculum



Components / Spare Parts

Catalog page

403340	KILLIAN-STRUYCKEN Nasal Speculum	245
403355	KILLIAN-STRUYCKEN Nasal Speculum	245
403375	KILLIAN-STRUYCKEN Nasal Speculum	245
403390	KILLIAN-STRUYCKEN Nasal Speculum	245
403440	KILLIAN-STRUYCKEN Nasal Speculum	-
403455	KILLIAN-STRUYCKEN Nasal Speculum	-
403475	KILLIAN-STRUYCKEN Nasal Speculum	-
403490	KILLIAN-STRUYCKEN Nasal Speculum	-
403755	COTTLE Nasal Speculum	246
403835	COTTLE Nasal Speculum	246
403855	COTTLE Nasal Speculum	246
403865	COTTLE Nasal Speculum	246
403875	COTTLE Nasal Speculum	246
403890	COTTLE Nasal Speculum	246
403950	COTTLE Nasal Speculum	-
403975	COTTLE Nasal Speculum	-

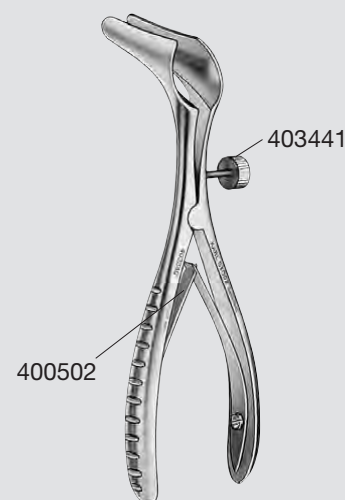
Spare Parts



400502  
**Spring**, for nasal speculum



403441  
**Set Screw**

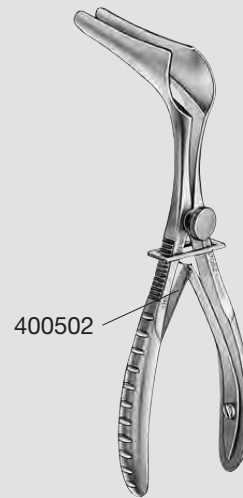


# Nasal Specula

Components / Spare Parts

Catalog page

403240	KILLIAN-STRUYCKEN Nasal Speculum	245
403255	KILLIAN-STRUYCKEN Nasal Speculum	245
403265	KILLIAN-STRUYCKEN Nasal Speculum	245
403275	KILLIAN-STRUYCKEN Nasal Speculum	245
403290	KILLIAN-STRUYCKEN Nasal Speculum	245



Spare Parts

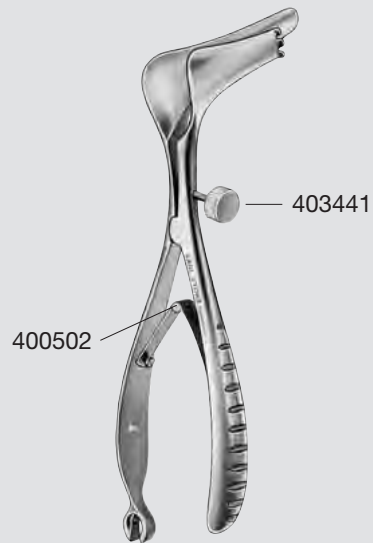


400502  
**Spring**, for nasal speculum

Components / Spare Parts

Catalog page

404455	RUDERT Nasal Speculum	247
404465	RUDERT Nasal Speculum	247
404475	RUDERT Nasal Speculum	247
404555	RUDERT Nasal Speculum	247
404565	RUDERT Nasal Speculum	247
404575	RUDERT Nasal Speculum	247



Spare Parts



400502  
**Spring**, for nasal speculum



403441  
**Set Screw**

# Nasal Specula, Septum Morcelizers

Components / Spare Parts

Catalog page

- 404040 Nasal Speculum
- 404055 Nasal Speculum

246  
246

## 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
- 488038 RUBIN Septum Morcelizer

263  
296

## Spare Parts



469602  
**Protective Cap,** for RUBIN  
Septum Morcelizer 469600  
and 488038



469600

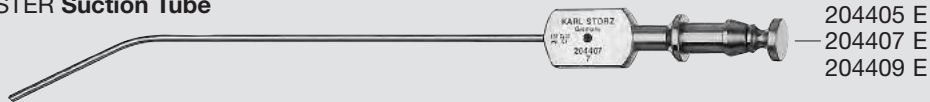
488038

# Suction and Irrigation Tubes

Suction Tubes, Antrum Cannulas

Components / Spare Parts Catalog page

<b>204405</b>	<b>PLESTER Suction Tube</b>	158
<b>204407</b>	<b>PLESTER Suction Tube</b>	158
<b>204408</b>	<b>PLESTER Suction Tube</b>	158
<b>204409</b>	<b>PLESTER Suction Tube</b>	158

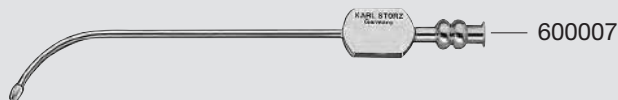


**Spare Parts**

for 204405	<b>204405 E</b> <b>Stylet</b>
for 204407	<b>204407 E</b> <b>Stylet</b>
for 204409	<b>204409 E</b> <b>Stylet</b>

Components / Spare Parts Catalog page

<b>586025</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586030</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586040</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586125</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586130</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586225</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586230</b>	v. <b>EICKEN Antrum Cannula</b>	71
<b>586240</b>	v. <b>EICKEN Antrum Cannula</b>	71



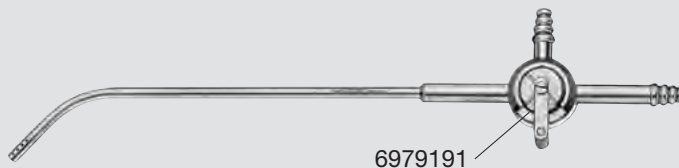
**Spare Parts**



**600007**  
**LUER-Lock Tube**  
**Connector, male,**  
tube diameter 6 mm

Components / Spare Parts Catalog page

<b>50207 B</b>	<b>Suction and Irrigation Tube</b>	54
<b>50207 BG</b>	<b>Suction and Irrigation Tube</b>	54



**Spare Parts**



**6979091**  
**Spring Cap**



**6979191**  
**Stopcock**

# Suction and Irrigation Tubes

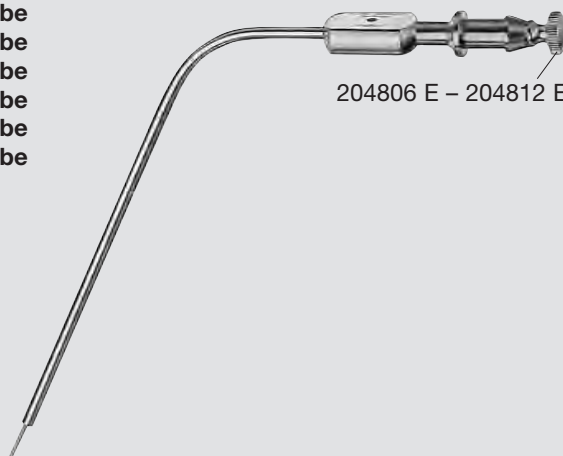
Suction Tubes, Suction Elevators, Suction Raspatories

## Components / Spare Parts

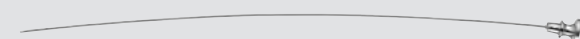
Catalog page

- 204806 FERGUSON Suction Tube
- 204808 FERGUSON Suction Tube
- 204809 FERGUSON Suction Tube
- 204810 FERGUSON Suction Tube
- 204812 FERGUSON Suction Tube
- 204815 FERGUSON Suction Tube

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- 158
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## Spare Parts



for 204808

204806 E  
**Stylet**

for 204810

204810 E  
**Stylet**

for 204806

204808 E  
**Stylet**

for 204812

204812 E  
**Stylet**

for 204809

204809 E  
**Stylet**

for 204815

204815 E  
**Stylet**

## Components / Spare Parts

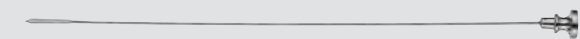
Catalog page

- 474001 FREER Suction Elevator

264



## Spare Parts



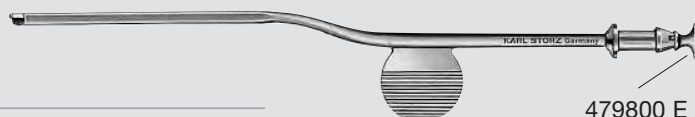
474001 E  
**Stylet**

## Components / Spare Parts

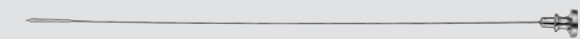
Catalog page

- 479800 Suction Raspatory

267



## Spare Parts



479800 E  
**Stylet**



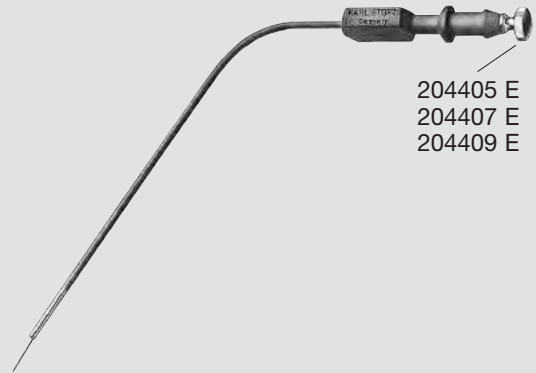
# Suction and Irrigation Tubes

## Suction Tubes

Components / Spare Parts		Catalog page
488084	FERGUSON Suction Tube	297
488085	FERGUSON Suction Tube	297
488086	FERGUSON Suction Tube	297

### Spare Parts

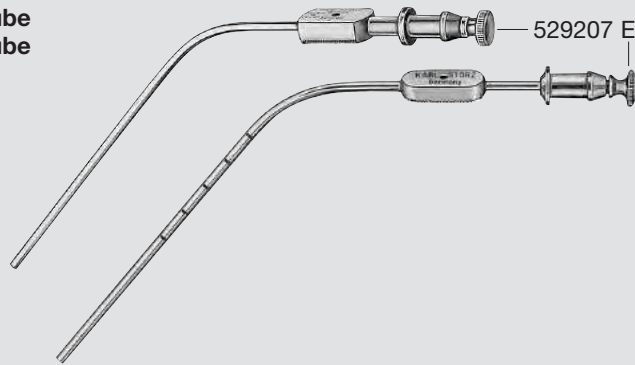
for 488084	488084 E <b>Stylet</b>
for 488085	488085 E <b>Stylet</b>
for 488086	488086 E <b>Stylet</b>



Components / Spare Parts		Catalog page
529205	FRAZIER Suction Tube	292
529207	FRAZIER Suction Tube	292

### Spare Parts

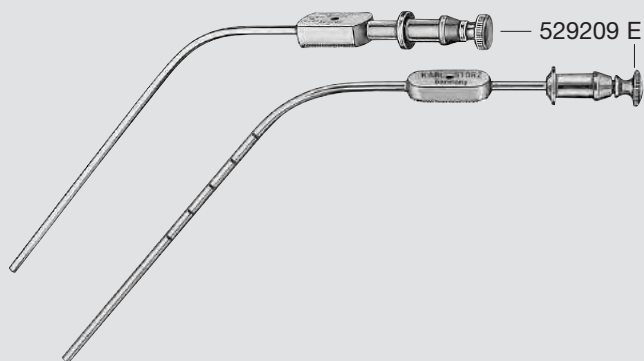
	529207 E <b>Stylet</b>
--	---------------------------



Components / Spare Parts		Catalog page
529209	FRAZIER Suction Tube	292

### Spare Parts

	529209 E <b>Stylet</b>
--	---------------------------



# Tongue Blades

Components / Spare Parts

Catalog page

<b>743910</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743915</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743920</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743925</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743930</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743935</b>	DAVIS-MEYER <b>Tongue Blade</b>	212
<b>743940</b>	DAVIS-MEYER <b>Tongue Blade</b>	212



Spare Parts



7362691  
**Y-Tube**, for tongue blade,  
length 190 mm

## Mouth Gags

Components / Spare Parts

Catalog page

**58195** DEHNHARDT **Mouth Gag**

131, 218



### Spare Parts



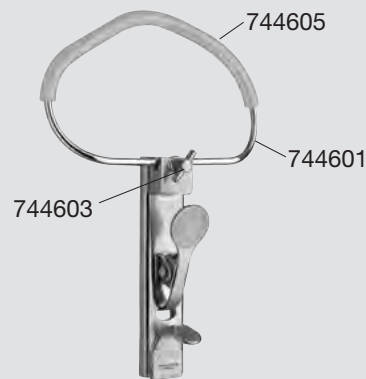
58195-1  
**Silicone Inserts,**  
package of 4

Components / Spare Parts

Catalog page

**744600** McIVOR **Mouth Gag**

218



### Spare Parts



744601  
**Frame**



744603  
**Screw,** for fixation of  
frame



744602  
**Silicone Tube,**  
diameter 5.5 mm,  
length 1 m



744605  
**Silicone Protection,**  
package of 10

# Handles

## Components / Spare Parts

Catalog page

<b>26196 HA</b>	<b>Axial Bipolar Handle</b>	50
<b>26196 HM</b>	<b>Bipolar Ring Handle</b>	50
<b>26196 HR</b>	<b>Bipolar Spring Handle</b>	50



### Spare Parts

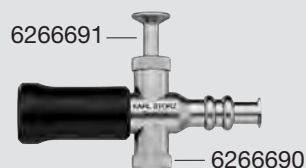


**6875990**  
**Sealing Cap,**  
diameter 2.6 mm

## Components / Spare Parts

Catalog page

<b>30804</b>	<b>Handle with Trumpet Valve</b>	53
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### Spare Parts



**5905610**  
**Spring**



**6266691**  
**Piston**



**6266690**  
**Knurled Cap**

## Components / Spare Parts

Catalog page

<b>33136 P</b>	<b>CLICK'line® Handle</b>	45
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### Spare Parts



**5922710**  
**Compression Spring**

# Miscellaneous

Outer Sheath with Irrigation Connector, Coagulation Suction Tubes,  
Bone Crusher

Components / Spare Parts

Catalog page

**50203 BS TAKE-APART® Outer Sheath**

50

6011590



Spare Parts



6011590  
**Plug**, for LUER-Lock  
connector

Components / Spare Parts

Catalog page

**50203 D Coagulation Suction Tube**

53

**50203 DL Coagulation Suction Tube**

53

**50203 DR Coagulation Suction Tube**

53

**50203 DU Coagulation Suction Tube**

53

6011590



Spare Parts



5917900  
**O-Ring**, small

Components / Spare Parts

Catalog page

**523900 COTTLE Bone Crusher**

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Spare Parts



523901  
**Metal Clamp**

# Miscellaneous

Nasal Retractor, Suction Punches for Biopsy and Grasping

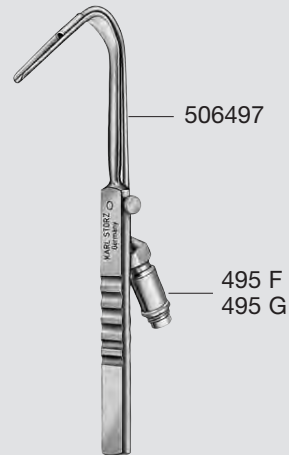
Components / Spare Parts

Catalog page

506496

AUFRICHT **Nasal Retractor**

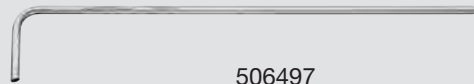
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## Spare Parts



495 F  
**Receptacle,**  
diameter 9 mm, for Wolf  
fiber optic light cable



506497  
**Fiber Optic Light Carrier**



495 G  
**Screw Base,**  
for KARL STORZ fiber  
optic light cable and  
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

460001

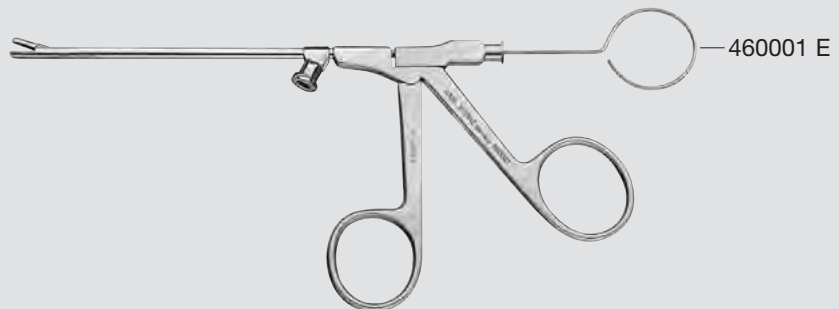
STAMMBERGER **Suction Punch**

76

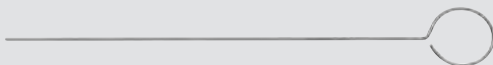
460501

STAMMBERGER **Suction Punch**

76



## Spare Parts

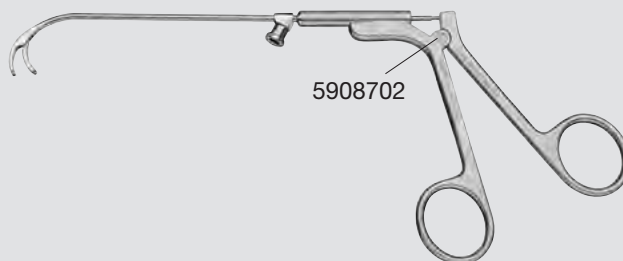


460001 E  
**Cleaning Stylet,**  
diameter 1.6 mm,  
working length 18 cm

## Miscellaneous

### Antrum Grasping Forceps and Trocars

Components / Spare Parts		Catalog page
653000	HEUWIESER Antrum Grasping Forceps	74
653001	HEUWIESER Antrum Grasping Forceps	74
653002	HEUWIESER Antrum Grasping Forceps	74
653003	HEUWIESER Antrum Grasping Forceps	74
653005	HEUWIESER Antrum Grasping Forceps	74
653006	HEUWIESER Antrum Grasping Forceps	74

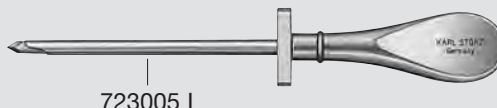


#### Spare Parts



5908702  
**Screw Plug**

Components / Spare Parts		Catalog page
723005 A	Trocar for Sinoscopy, with beak	66

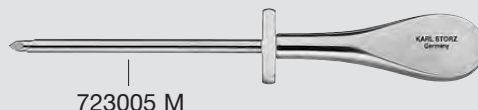


#### Spare Parts



723005 L  
**Sleeve**

Components / Spare Parts		Catalog page
723005 B	Trocar for Sinoscopy, oblique beak	66, 99



#### Spare Parts



723005 M  
**Sleeve**

# Miscellaneous

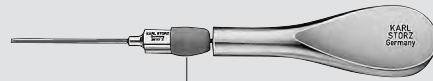
Trocars and LED Battery Light Sources for Endoscopes

Components / Spare Parts

Catalog page

**58717 X Trocar**

58



6113490

### Spare Parts



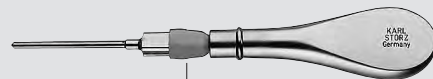
6113490  
**Sealing Cap,**  
1.4 mm (40/1.2)

Components / Spare Parts

Catalog page

**58702 X Trocar**

58



6126990

### Spare Parts



6126990  
**Sealing Cap,**  
(40/1.5)

Components / Spare Parts

Catalog page

**11301 D4 Battery Light Source LED for Endoscopes**

91



094108 B

### Spare Parts



094108 B  
**Cover,** for Battery Box  
094108



121306 P  
**Photo Battery,** lithium,  
3 V, CR 123 A



# Miscellaneous

## Metal Mallets

Components / Spare Parts

Catalog page

**174700 Metal Mallet**

99, 105, 224, 268



### Spare Parts



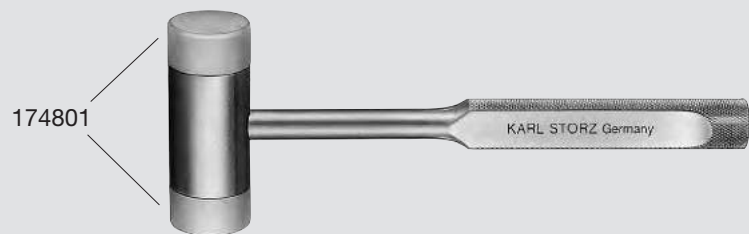
174701  
**Plastic Mallet Head**

Components / Spare Parts

Catalog page

**174800 Metal Mallet**

224, 268



### Spare Parts



174801  
**Plastic Mallet Head**

# Holding Systems

ENDOCRANE™, Air Compressors, STOR-E™ Transport Carts

## Components / Spare Parts

Catalog page

- 28272 EH** ENDOCRANE™, piezoregulated holding arm
- 28272 EHS 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
- 27677 BV Case



28272 ECS

348

## Components / Spare Parts

Catalog page

- 20031002** Air Compressor, for POINT SETTER®
- 20031020 Compressor, 0 – 8 bar, power supply 230 VAC, 50/60 Hz
- 27630022 Fabric Reinforced Tube, for CALCUSPLIT® SCB
- 28172 WC Connecting Tube, for POINT SETTER®, length 600 cm



354

## Components / Spare Parts

Catalog page

- 20031002 C** Air Compressor, for POINT SETTER®
- 20031020 C Compressor, 0 – 8 bar, power supply 115 VAC, 50/60 Hz
- 27630022 Fabric Reinforced Tube, for CALCUSPLIT® SCB
- 28172 WC Connecting Tube, for POINT SETTER®, length 600 cm



354

## Components / Spare Parts

Catalog page

- 20020059** STOR-E™ Transport Cart, for POINT SETTER®
- 20020053 Mobile Stand, for POINT SETTER®
- 20020050 Attachment, POINT SETTER® set
- 29005 AK Wire Basket



355



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

## Bone Mills, Bone Scrapers

Components / Spare Parts

Catalog page

- 58900 KM**    **Bone Mill**
- 58901 KM    **Bone Mill**, for the comminution of autologous bone material
- 58902 KM    **Cleaning Instruments**
- 11580 I      **Metal Tray**, with compartments and lid
- 58951 H      **KIRSCH Curette**, sinus 7, size 8 x 10 mm



58900 KM

Components / Spare Parts

Catalog page

- 58974**      **Bone Scraper**, straight, diameter 10 mm, reusable

87, 233



58974 E

### Spare Parts

58974 E  
**Spare Blade**

Components / Spare Parts

Catalog page

- 58974 G**    **Bone Scraper**, converse curve 20°, diameter 10 mm, reusable

87, 233



58974 GE

### Spare Parts

58974 GE  
**Spare Blade**

# Suction and Irrigation Systems

ENDOMAT® LC SCB

Components / Spare Parts

Catalog page

20330301-1 **ENDOMAT® LC SCB**

U 8

- 20330320-1 **ENDOMAT® LC with KARL STORZ-SCB,**  
power supply 100 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord,** length 300 cm
- 20330340 **Silicone Tubing Set,** for irrigation, sterilizable
- 20330341 **Silicone Tubing Set,** for suction, sterilizable
- 20090170 **SCB Connecting Cable,** length 100 cm



20330320-1

## Spare Parts



2027390  
**Mains Fuse,**  
T 1.0 A (SB),  
package of 10

Components / Spare Parts

Catalog page

20330340 **Silicone Tubing Set,** for irrigation, sterilizable

U 8



## Spare Parts



27500  
**LUER-Lock Tube Connector,** male,  
tube diameter 9 mm



20330393  
**Pump Tube,** sterilizable,  
package of 25



20330088  
**Puncture Needle,**  
for irrigation bottle



20300482  
**Connector Set,**  
sterilizable, package of 2

Components / Spare Parts

Catalog page

20330341 **Silicone Tubing Set,** for suction, sterilizable

U 8



## Spare Parts



27500  
**LUER-Lock Tube Connector,** male,  
tube diameter 9 mm



20330393  
**Pump Tube,** sterilizable,  
package of 25



20300180  
**Tubing Connector Set,**  
for Bottle Cap 20300034



20300482  
**Connector Set,**  
sterilizable, package of 2

# Suction and Irrigation Systems

DUOMAT®

Components / Spare Parts

Catalog page

20321008

**DUOMAT®**

U 10

20321020

**DUOMAT®**,  
power supply 100 – 120, 230 – 240 VAC,  
50/60 Hz

400 A

**Mains Cord**, length 300 cm

mtp\*

**VACUsafe Promotion Pack Suction, 2 l**



20321020

## Spare Parts



1067800  
**Mains Fuse**,  
T 0.2 A (SB),  
package of 10



2084290  
**Mains Fuse**,  
T 0.5 A (SB),  
package of 10

Components / Spare Parts

Catalog page

20300045

**Silicone Tubing Set**, for irrigation

U 11, U 17



## Spare Parts



600007  
**LUER-Lock Tube  
Connector**, male,  
tube diameter 6 mm

Components / Spare Parts

Catalog page

20300046

**Silicone Tubing Set**

U 11, U 17



## Spare Parts



20330088  
**Puncture Needle**,  
for irrigation bottle



600008  
**LUER-Lock Tube  
Connector**, female, tube  
diameter 6 mm



600007  
**LUER-Lock Tube  
Connector**, male,  
tube diameter 6 mm

# Suction and Irrigation Systems

DUOMAT®

## Components / Spare Parts

Catalog page

- 20300042 **Silicone Tubing Set**, for suction
- 20300044 **Silicone Tubing Set**, for suction

U 17  
U 11, U 17



## Spare Parts



27500  
**LUER-Lock Tube Connector**, male,  
tube diameter 9 mm



20300180  
**Tubing Connector Set**,  
for Bottle Cap 20300034



20300181  
**LUER-Lock Tube Connector**, female,  
tube diameter 8 mm

## Components / Spare Parts

Catalog page

- 26310035-335 **Irrigation Bottle**
- 26310035 **Bottle Cap**
- 26310050 **Irrigation Liquid Bottle**

U 16



## Components / Spare Parts

Catalog page

- 26310035 **Bottle Cap**

U 11, U 16



## Spare Parts



26310087  
**Seal Set**, for bottle caps

# Suction and Irrigation Systems

DUOMAT®

Components / Spare Parts

Catalog page

20300034 **Bottle Cap**

U 16



## Spare Parts



20300580  
**Overflow Case**, gray,  
for Bottle Cap 20300034



031124-10\*  
**Filter**, to block fluid during  
suction, for single use,  
unsterile, package of 10



2911590  
**Plunger Ball**, green,  
to overflow case,  
2 pcs required

# Suction and Irrigation Systems

CLEARVISION® II

Components / Spare Parts

Catalog page

- 40334101 **CLEARVISION® II**, lens irrigation system for endoscopes
- 40334120 **CLEARVISION® II**, power supply 100 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord**
- 20014230 **One-Pedal Footswitch**
- 40334140 **Silicone Tubing Set**, sterilizable

U 12



40334120

## Spare Parts



2027390  
**Mains Fuse**,  
T 1.0 A (SB),  
package of 10

Components / Spare Parts

Catalog page

- 40334140 **Silicone Tubing Set**, for irrigation

U 13



## Spare Parts



20330088  
**Puncture Needle**,  
for irrigation bottle



2724190  
**LUER-Lock Tube Connector**, male,  
tube diameter 2 mm



2723091  
**Connector**, large tube  
diameter



40334180  
**Pump Tube**,  
for CLEARVISION®II,  
sterilizable, package of 25



2727291  
**Connector**, small tube  
diameter



# Motor Systems

UNIDRIVE® OMFS SCB

Components / Spare Parts

Catalog page

**40711801-1 UNIDRIVE® OMFS SCB**

U 22

20711820-1 **UNIDRIVE® OMFS SCB**,  
power supply 100 – 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 Tubing Set  
**20 7116 40**

20090170 **SCB Connecting Cable**

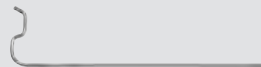


20711820-1

## Spare Parts



2027590  
**Mains Fuse**,  
T 2.0 AL (SB),  
package of 10



20711680  
**Irrigation Rod**



2107890  
**Fuse Holder**, for power  
supply socket

# Motor Systems

UNIDRIVE® OMFS SCB

## Components / Spare Parts

Catalog page

**252475**      **INTRA Drill Handpiece**

**252495**      **INTRA Drill Handpiece**



U 25

U 25

## Spare Parts



**252410**  
**Irrigation Tube**



## Components / Spare Parts

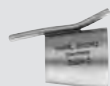
Catalog page

**252490**      **INTRA Drill Handpiece**



U 25

## Spare Parts



**252412**  
**Irrigation Tube**

## Components / Spare Parts

Catalog page

**280052 B**      **Universal Spray**



U 25

## Spare Parts



**280052 C**  
**Spray Diffuser**

# High Frequency Surgery Units

AUTOCON® II 400 SCB

Components / Spare Parts

Catalog page

**2053520x-12x AUTOCON® II 400 SCB**

U 44

2053522x-12x **AUTOCON® II 400 SCB,**  
power supply 220 – 240 VAC, 50/60 Hz

400 A **Mains Cord**

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



2053522x-12x

2053522xU12x

**2053520xU12x AUTOCON® II 400 SCB**

2053522xU12x **AUTOCON® II 400 SCB,**  
power supply 100 – 120 VAC, 50/60 Hz

400 A **Mains Cord**

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

**Spare Part** for use at 230 V:



2027690  
**Mains Fuse,**  
T 4.0 AL (SB),  
package of 10

**Spare Part** for use at 110 V:



2028090  
**Mains Fuse,**  
T 8.0 AL (SB),  
package of 10

# High Frequency Surgery Units

AUTOCON® II 200, AUTOCON® II 80

Components / Spare Parts

Catalog page

**20532201**    **AUTOCON® II 200**  
20532220    **AUTOCON® II 200**,  
power supply 200 – 240 VAC, 50/60 Hz  
400 A        **Mains Cord**, length 300 cm



U 46

**20532201-010**    **AUTOCON® II 200**  
20532220-010    **AUTOCON® II 200**, with GASTRO-Cut,  
power supply 200 – 240 VAC, 50/60 Hz  
400 A        **Mains Cord**, length 300 cm

20532220  
20532220-010  
20532220C  
20532220C010

**20532201 C**    **AUTOCON® II 200**  
20532220C    **AUTOCON® II 200**,  
power supply 100 – 120 VAC, 50/60 Hz  
400 B        **Mains Cord**, US version, length 200 cm

**20532201C010**    **AUTOCON® II 200**  
20532220C010    **AUTOCON® II 200**, with GASTRO-Cut,  
power supply 100 – 120 VAC, 50/60 Hz  
400 B        **Mains Cord**, US version, length 200 cm

**Spare Part** for use at 230 V:



2027690  
**Mains Fuse**,  
T 4.0 AL (SB),  
package of 10

**Spare Part** for use at 110 V:



2028090  
**Mains Fuse**,  
T 8.0 AL (SB),  
package of 10

Components / Spare Parts

Catalog page

**20530801**    **AUTOCON® II 80**  
20530820    **AUTOCON® II 80**,  
power supply 100 – 240 VAC, 50/60 Hz  
400 A        **Mains Cord**, length 300 cm



U 48

**Spare Parts**



2027690  
**Mains Fuse**,  
T 4.0 AL (SB),  
package of 10

20530820

# Surgery Electrodes Set

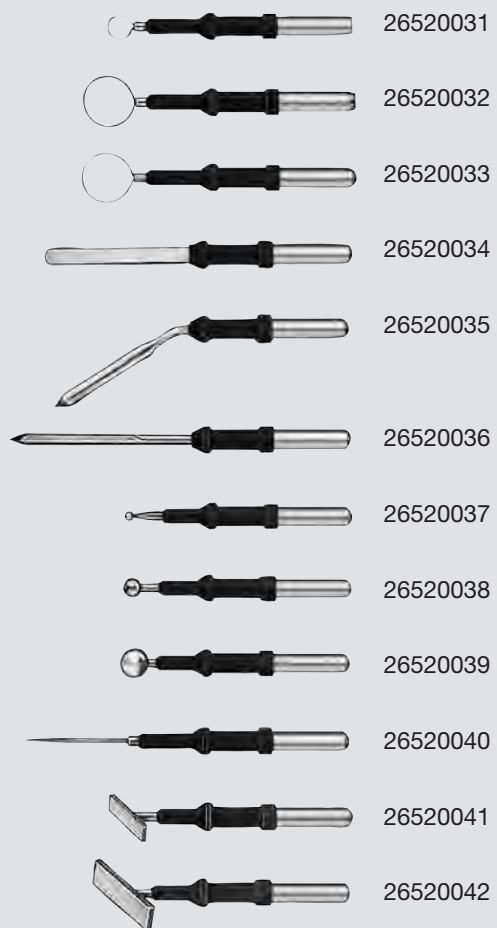
Components / Spare Parts

Catalog page

**20530008 Surgery Electrodes Set**

U 51

- 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**

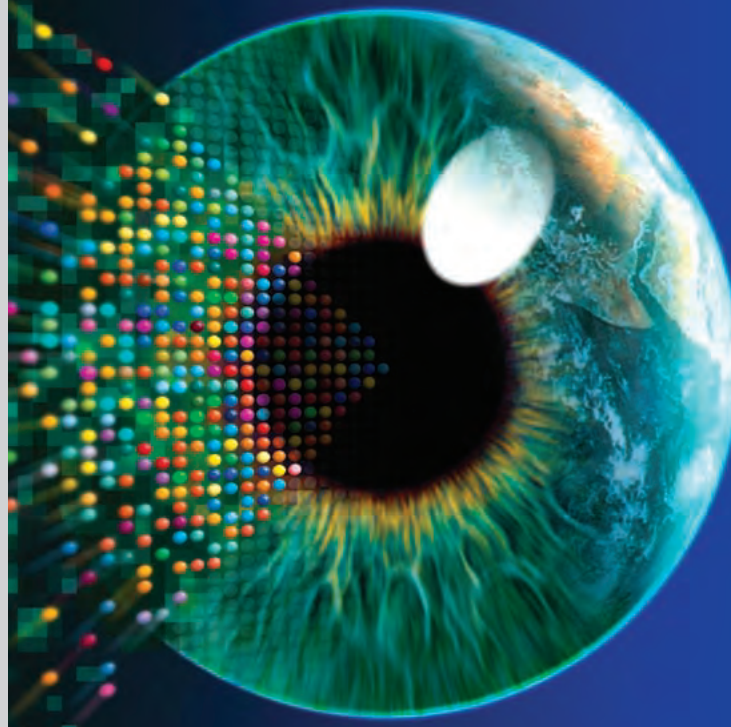




**KARL STORZ OR1 NEO®**  
ERGONOMICS, SAFETY AND EFFICIENCY IN THE OR



**TELEPRESENCE**  
IMAGING SYSTEMS - ILLUMINATION



**STORZ**  
KARL STORZ - ENDOSKOPE

PRODUCT CATALOGS

HUMAN MEDICINE  
EDITION 1/2012



**PROTECTION<sub>1</sub>**

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**STORZ**  
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**KARL STORZ OR1 NEO®  
ERGONOMICS, SAFETY  
AND EFFICIENCY IN THE OR**



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- **System integration**
- **Data management and documentation**
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The OR1 NEO® components provide a customized system and compatible applications. Each component offers a reliable solution on its own; the sum of all components forms a complete multifunctional system.

**TELEPRESENCE**

- **Imaging systems**
- **Illumination**



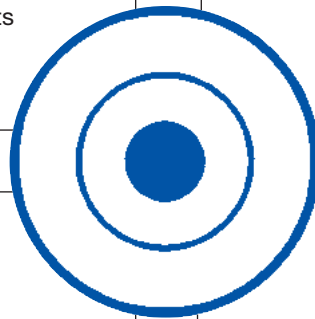
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- Plastic Surgery
- Endoscopes for Anesthesiology and Emergency Medicine
- Endoscopes and Instruments for Cardiovascular Surgery
- Thorax
- Gastroenterology
- Laparoscopy
- Gynecology
- Urology
- Proctology
- Arthroscopy, Sports Medicine & Spine Surgery
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- Telepresence

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- **Platform for Staff Training – Academy of Clinical Education**

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