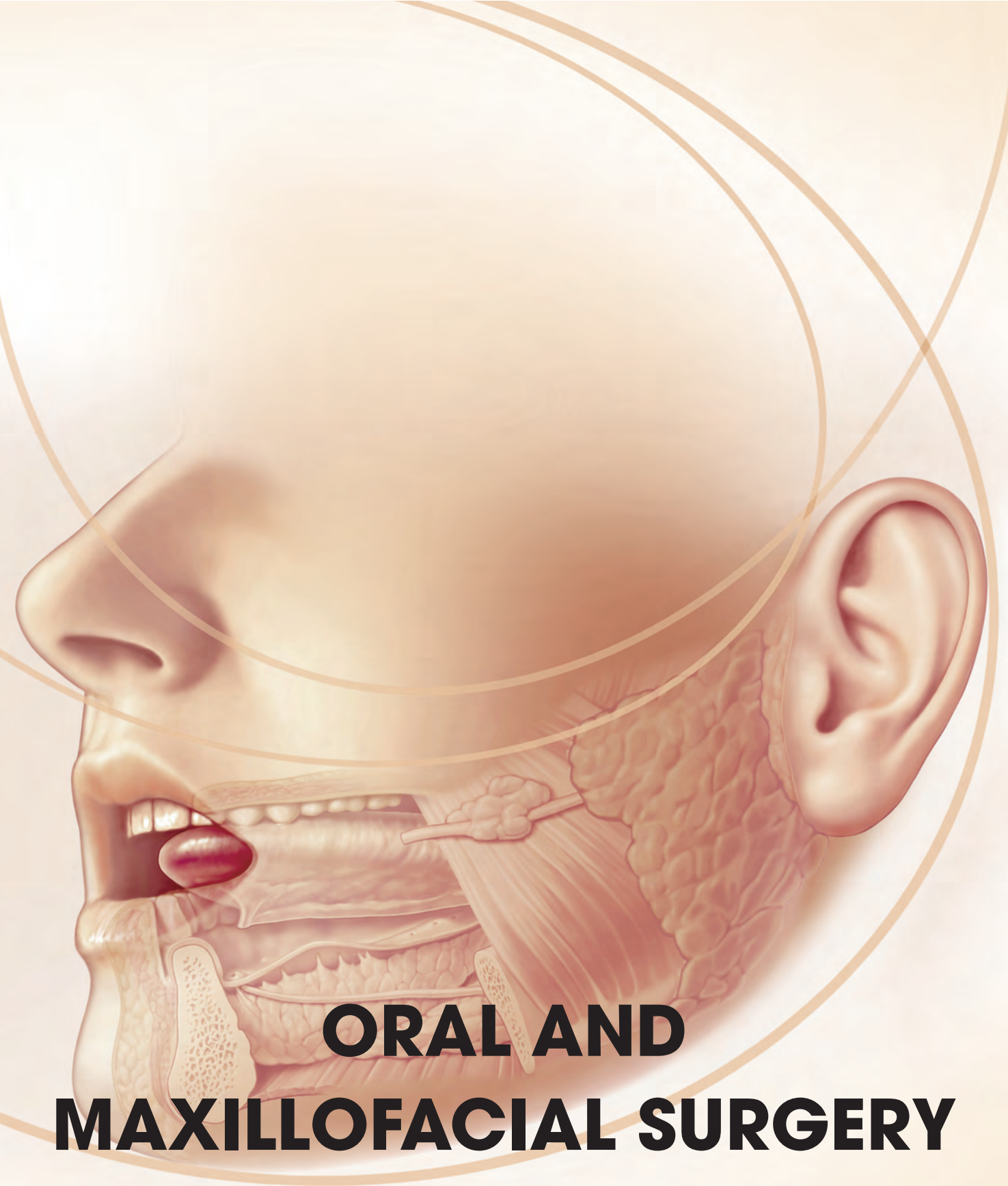




ORAL AND MAXILLOFACIAL SURGERY

3rd EDITION 2/2012 US

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THE WORLD OF ENDOSCOPY

**ORAL AND
MAXILLOFACIAL SURGERY**

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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.

KARL STORZ Endoscopy-America, Inc. TERMS AND CONDITIONS

The following terms and conditions ("Terms") apply to the acquisition of KARL STORZ products.

1. ORDERS. Orders are to be placed with the Customer Support Department or sales force of KARL STORZ Endoscopy-America, Inc. ("KARL STORZ"); however, orders will only be accepted by KARL STORZ's Customer Support Department located in California or Massachusetts. In the event of any conflicting, inconsistent and/or additional provisions in a customer purchase order or other document, these Terms will supersede and prevail and such conflicting, inconsistent and/or additional provisions shall be of no force or effect; KARL STORZ hereby objects to such other provisions or terms proposed by customer. By accepting delivery of products from, and/or the performance of services by KARL STORZ and/or by paying for same, customer accepts and agrees to these Terms, all of which constitute the sole and entire agreement between KARL STORZ and customer.

2. PRICES. Prices are subject to change without notice. Nevertheless, prices in effect at the time that an order is accepted will prevail; provided, however, that quotations, including pricing therein, are valid until the expiration date reflected on the quotation. All applicable taxes, shipping and/or handling charges, will be added to the invoice. If customer is tax exempt, customer shall provide a tax exemption certificate for the "sold to" entity at the time of issuance of the purchase order under these Terms.

3. SHIPPING. Shipments are F.O.B. shipping point, shipping and handling prepaid by KARL STORZ and added to the invoice. However, KARL STORZ will utilize customer-designated third party freight programs for shipment and payment when requested by customer. In such case, customer is solely responsible for all third party freight charges, KARL STORZ handling charges and any loss or damage to products during shipment. If use of a customer-designated third party freight program is not requested by customer, and any loss or damage to products occurs during shipment, KARL STORZ will replace such products at no additional cost. All shipments should be carefully examined upon receipt and, if a product is damaged, customer must promptly notify KARL STORZ of the nature and extent of the damage and return such product to KARL STORZ in accordance with the "Return Policy" below. If shipments are received short, customer must promptly contact KARL STORZ's Customer Support Department. KARL STORZ may make partial shipments on any order with customer's authorization.

4. PAYMENT. Invoices are due and payable upon receipt, net 30 days from date of invoice, which shall not be earlier than the date of shipment. Invoices will be issued on authorized partial shipments and are payable as set forth in this section. A finance charge equal to 1-1/2% per month or the maximum amount allowed by law, whichever is less, may be assessed on all balances outstanding for more than 30 days. Any and all collection expenses, including reasonable attorneys' fees, incurred by KARL STORZ to secure payment of any sums due from customer and/or to effectuate repossession of products purchased from KARL STORZ but not paid for will be borne by customer. Amounts payable to KARL STORZ for the purchase, lease or rental of products and/or the provision of services are not subject to withholding, set-off or counter-claim under any circumstances without the prior written consent of KARL STORZ.

5. SECURITY INTEREST. Until customer has paid KARL STORZ in full for all products purchased pursuant to an order, KARL STORZ shall have, and customer hereby grants to KARL STORZ, a security interest in all products purchased pursuant to such order to secure payment of the entire purchase price for all products sold, shipped and delivered to customer pursuant to such order and all costs, expenses or other charges relating thereto which are payable by customer to KARL STORZ.

6. RETURN MERCHANDISE AUTHORIZATION PROCESS. A return merchandise authorization ("RMA") must be obtained from KARL STORZ's Customer Support Department prior to sending any products to KARL STORZ for any reason. When contacting KARL STORZ for an RMA, the Customer Support Representative must be provided with: (a) the applicable P.O. number; (b) the KARL STORZ catalog number and, if applicable, the serial number for each product; and (c) the reason for the return. KARL STORZ will not be responsible for products returned without an RMA. Returns must be carefully packed and shipped pre-paid to KARL STORZ, Attn: RMA number. KARL STORZ's Customer Support Department will provide the return address and the RMA number. In order to prevent the transmission of disease to the medical facilities' and/or KARL STORZ's personnel, all opened products must be cleaned and then sterilized and/or disinfected before sending to KARL STORZ, which reserves the right to return unclean and contaminated products to customer. Additionally, if any product becomes damaged and is not immediately returned for repair or exchange, KARL STORZ assumes no responsibility or liability for customer's continued use of that damaged product. KARL STORZ does not guarantee the performance of, 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 KARL STORZ or a KARL STORZ authorized repair facility.

7. RETURN POLICY. Full credit will only be issued for products that are received by KARL STORZ within 120 days of date of shipment ("Ship Date") so long as such items are unused and in resalable condition. If products are received by KARL STORZ more than 120 days after the Ship Date, KARL STORZ may, in its sole and absolute discretion, either refuse acceptance of the returned products or require payment of an inspection fee of up to 25% of the invoiced price of the product, which will require a separate P.O. number. Shipping charges will be reimbursed, inspection fees will not be charged and full credit will be given if the return was due to a shipping error on the part of KARL STORZ. Customer must follow the RMA procedure set forth in the "Return Merchandise Authorization Process" above to return products for credit. The following products may not be returned for credit or exchange: (a) products held longer than 120 days from Ship Date (except as provided above); (b) sterile packaged products where the package is opened and/or damaged; (c) products identified and purchased as discontinued products; (d) instruments that are etched or engraved by customer; (e) products damaged by customer; and (f) used products.

8. WARRANTY POLICY. This section ("Warranty Policy") applies to all warranty repairs and exchanges. All products are warranted to be in good working order and free from defects in workmanship and materials on the date of shipment and continuing for a period of one (1) year thereafter, unless otherwise specified in a quotation or product specific literature. All repairs made under this Warranty Policy shall be free from defects in materials and workmanship for the remainder of the original warranty period (if any) or 90 days, whichever is longer. To submit a warranty claim, customer must follow the RMA procedure set forth in the "Return Merchandise Authorization Process" above. Customer must return the defective product within 30 days of issuance of the RMA.

For all warranty claims submitted within the first 30 days of the applicable warranty period ("Advance Replacement Period"), a replacement product will be provided to the customer prior to receipt of the product subject to such warranty claim. KARL STORZ will notify customer if the warranty claim is not valid. In such event, customer must submit a purchase order for the replacement product including any shipping and handling costs. Some limited product categories may qualify for a longer Advance Replacement Period to be confirmed by KARL STORZ's Customer Support Department at the time of issuance of the RMA. For all warranty claims submitted after the Advance Replacement Period, KARL STORZ shall evaluate the warranty claim following receipt of the product from customer and, if valid, shall at its sole discretion either repair or replace the product at no charge to the customer. KARL STORZ will notify customer if such warranty claim is not valid and provide an estimate of the repair cost. In such event, customer must submit a purchase order for the repair.

Damage which might arise or be caused, whether by customer or by any of the users of the products provided by KARL STORZ, as a result of, in connection with, or otherwise attributable to the following is excluded from all product and service warranty coverage: (a) misuse, abuse, mishandling and/or improper operation and/or storage; (b) repairs, servicing, modifications and/or alterations performed by any person or entity other than KARL STORZ or an authorized repair facility of KARL STORZ; (c) use in combination with adaptors, accessories and/or equipment from other manufacturers unless authorized or recommended by KARL STORZ; (d) use in any manner other than those for which such products are designed and are otherwise intended to be used; or (e) a failure to comply with power and grounding specifications provided by KARL STORZ. **THE WARRANTIES SET FORTH HEREIN ARE 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 AND/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. KARL STORZ 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 KARL STORZ products or provision of services. 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. Repair, modification or alteration of KARL STORZ products performed by any person or entity other than by KARL STORZ or an authorized repair facility of KARL STORZ 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.

9. REPAIR PROGRAM. This section ("Repair Program") applies to all repairs and exchanges not covered under the Warranty Policy. If such repairs or exchanges become necessary, customer must follow the RMA procedure set forth in the "Return Merchandise Authorization Process" above. All repairs and exchanges shall be subject to KARL STORZ's applicable standard repair or exchange charges. Customer will be advised of the estimated cost of the repair work or a product exchange before it is undertaken. All repairs under this Repair Program carry a 90 day warranty. Any exchange product provided under this Repair Program carries the applicable KARL STORZ new product warranty. If an exchange product is provided and the damaged product is not returned within 30 days of receipt of the exchange product, Customer will be invoiced for the applicable contracted price or the full list price of the exchange product. Subject to the availability of product, KARL STORZ may, provide customer with loaner product while repairs are being made.

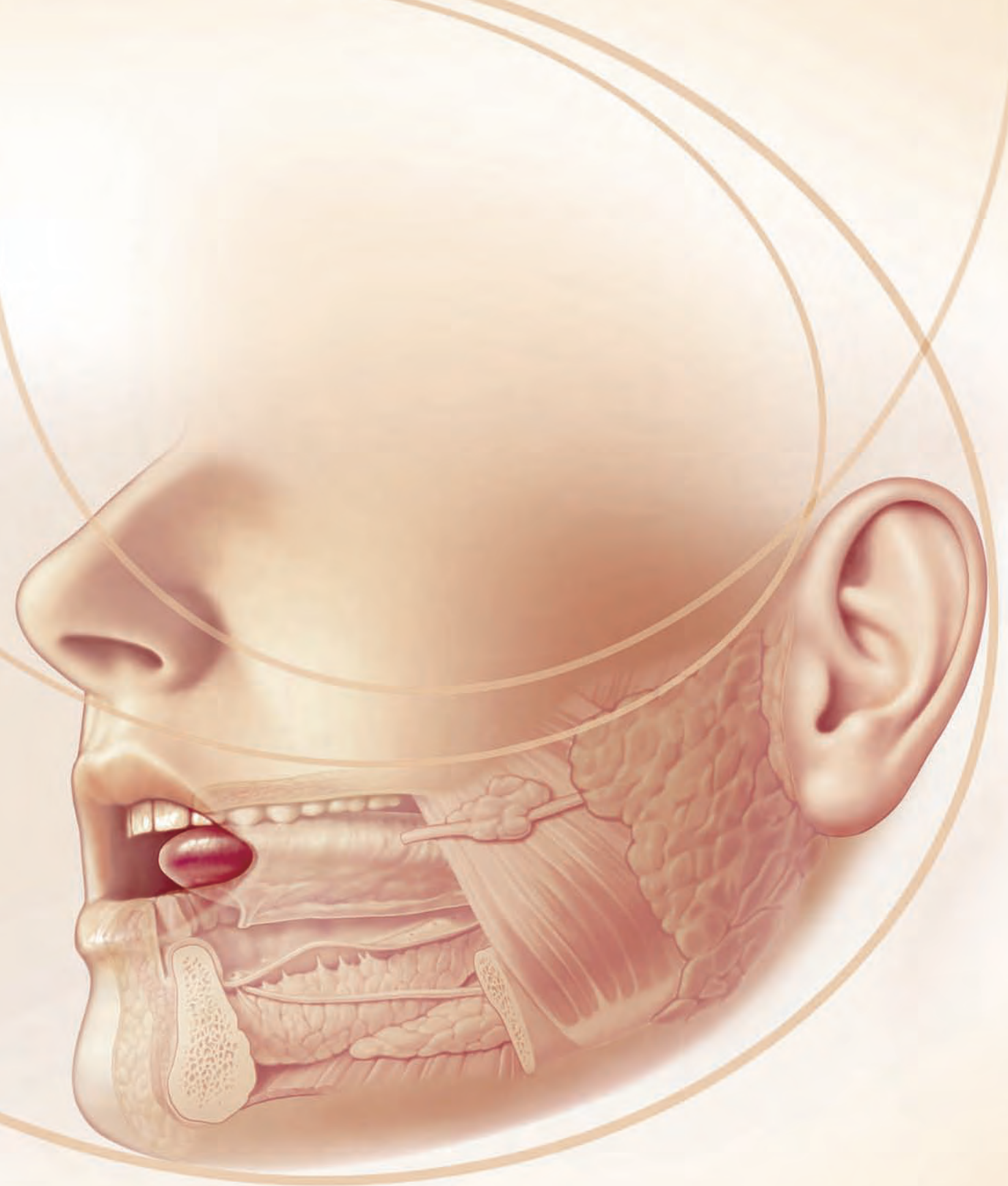
10. SOFTWARE OWNERSHIP AND LICENSING. Subject to annual license fees, as applicable, set forth in the applicable quotation, KARL STORZ grants to customer a non-exclusive, limited, non-transferable (except in connection with a transfer of a product), non-sublicensable and irrevocable (except as provided herein) license ("License") to use software (including, but not limited to, programmed logic, computer programs and/or operating information) programmed into and/or embedded in products provided by KARL STORZ or separately provided by KARL STORZ. Such licensed software may be developed by or on behalf of (a) KARL STORZ ("KARL STORZ Software") and/or (b) third party developers (all of whom are considered third party beneficiaries of this section) ("Third Party Software") ("KARL STORZ Software" and "Third Party Software" are referred to collectively as "Software"). The Software is licensed only in the form in which delivered to customer and only for use in accordance with KARL STORZ's written instructions for the Software or the product in which the Software is embedded or to which the Software relates and may be subject to annual license fees as set forth in the applicable quotation. The Software, and all modifications, updates, enhancements and upgrades provided by KARL STORZ, will, at all times, remain the property of KARL STORZ or the applicable third party developer. Customer may not (a) duplicate, copy, reverse-engineer, create, re-create, de-compile or disassemble the Software (or the source code of the Software), (b) create derivatives of the Software, or (c) unless authorized by KARL STORZ in advance, modify or customize the Software. Any and all duplicates, copies and derivatives of the Software, and any and all unauthorized modifications to, or customizations of, the Software will immediately become the sole property of KARL STORZ. Customer acknowledges and agrees that (a) neither the licensing of Software to customer, nor the purchase, lease or other acquisition of products by customer constitutes a transfer of the Software, (b) the Software is the property of KARL STORZ or the applicable third party developer, (c) customer neither owns nor acquires any interest in any copyright, patent or other intellectual property right in or to the Software as a result of the License granted herein or the purchase, lease or other acquisition of any product, and (d) KARL STORZ, or the applicable third party developer, retains and owns all right, title, and interest in and to the Software and the ownership rights therein, at all times, regardless of the form or media in or on which the original or any copy of the Software may exist. In the event of a failure of customer or its agents, employees or representatives to comply with any terms and conditions of the License granted herein, the License will, without any further action by KARL STORZ or any other party, immediately terminate.

11. SOFTWARE AND SECURITY SERVICES. Solely with respect to products for which customer has purchased software licenses and security services, KARL STORZ shall: (a) install security patches for such products connected to customer's network; (b) provide software updates to address bug fixes; (c) provide remote troubleshooting and related services; and (d) provide software upgrades including new features (excluding EHR implementation and interfacing, and hardware upgrades). KARL STORZ shall provide the foregoing services at times and frequency, and in the manner, determined solely by KARL STORZ based upon the critical or non-critical nature of such software patches, updates and upgrades. The services provided by KARL STORZ pursuant to this section do not apply to any related hardware issues, and do not carry a repair warranty or otherwise affect any warranty provided under these Terms. KARL STORZ does not warrant or represent that use of the software application will be uninterrupted or error-free.

12. DISPUTES. All controversies, disputes and claims, shall be adjudicated by a court of competent jurisdiction within the County of Los Angeles, State of California or the United States District Court, Central District of California, which courts shall have exclusive jurisdiction over such matters. All transactions by and between customer and KARL STORZ shall be governed by and construed in accordance with the laws of the State of California without regard to its conflict of laws principles. The invalidity or unenforceability of any of the within Terms will not affect the validity or enforceability of any other or remaining term or condition hereof.

13. LIMITATION OF LIABILITY. KARL STORZ is not liable for any special, incidental, consequential, punitive, exemplary or indirect damages, from any cause whatsoever in connection with or arising from the purchase, sale, lease, rental, installation, performance or use of KARL STORZ products or services, even if KARL STORZ has been advised of the possibility of such damages. **SOME JURISDICTIONS DO NOT ALLOW EXCLUSIONS AND DISCLAIMERS OF CERTAIN WARRANTIES OR LIMITATIONS OF LIABILITY, SO THE LIMITATIONS AND/OR EXCLUSIONS SET FORTH IN THESE TERMS MAY NOT APPLY. IN THAT EVENT, KARL STORZ'S LIABILITY WILL BE LIMITED TO THE GREATEST EXTENT PERMITTED BY LAW IN THE SUBJECT JURISDICTION.**

14. COMPLIANCE WITH LAWS; DISCOUNT EXCEPTION AND SAFE HARBOR. Customer shall comply with all applicable laws and regulations, including but not limited to the federal health care program anti-kickback statute, 42 U.S.C. § 1320a-7b(b) ("AKS"). Customer acknowledges its obligations to fully and accurately report the discounts, rebates, credits, product replacements (including those related to a warranty, service, or otherwise) and/or other price reductions (collectively "Discounts"), if any, it receives from KARL STORZ, under all applicable laws and regulations, including but not limited to the AKS, the Discount Exception and the Discount Safe Harbor. Customer may be obligated to report and/or provide information concerning any such Discounts provided by KARL STORZ pursuant to 42 U.S.C. § 1320a-7b(b)(3)(A) (the "Discount Exception") and/or 42 C.F.R. § 1001.952(h) (the "Discount Safe Harbor"), other federal or state laws, or agreement with third party payers. Customer should retain documentation of Discounts and make such information available to federal or state health care programs, applicable federal and/or state agencies, and/or third party payors, upon request. KARL STORZ will provide to customer invoices related to purchases, and other reports/documentation as applicable, documenting any Discounts for such products and/or services. Customer is responsible for appropriate allocation and/or apportionment of any Discounts among products and/or services purchased. Customer acknowledges that this section has put customer on notice of its obligations under the AKS, Discount Exception and Discount Safe Harbor and all other applicable laws and regulations.



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	KOCHER 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



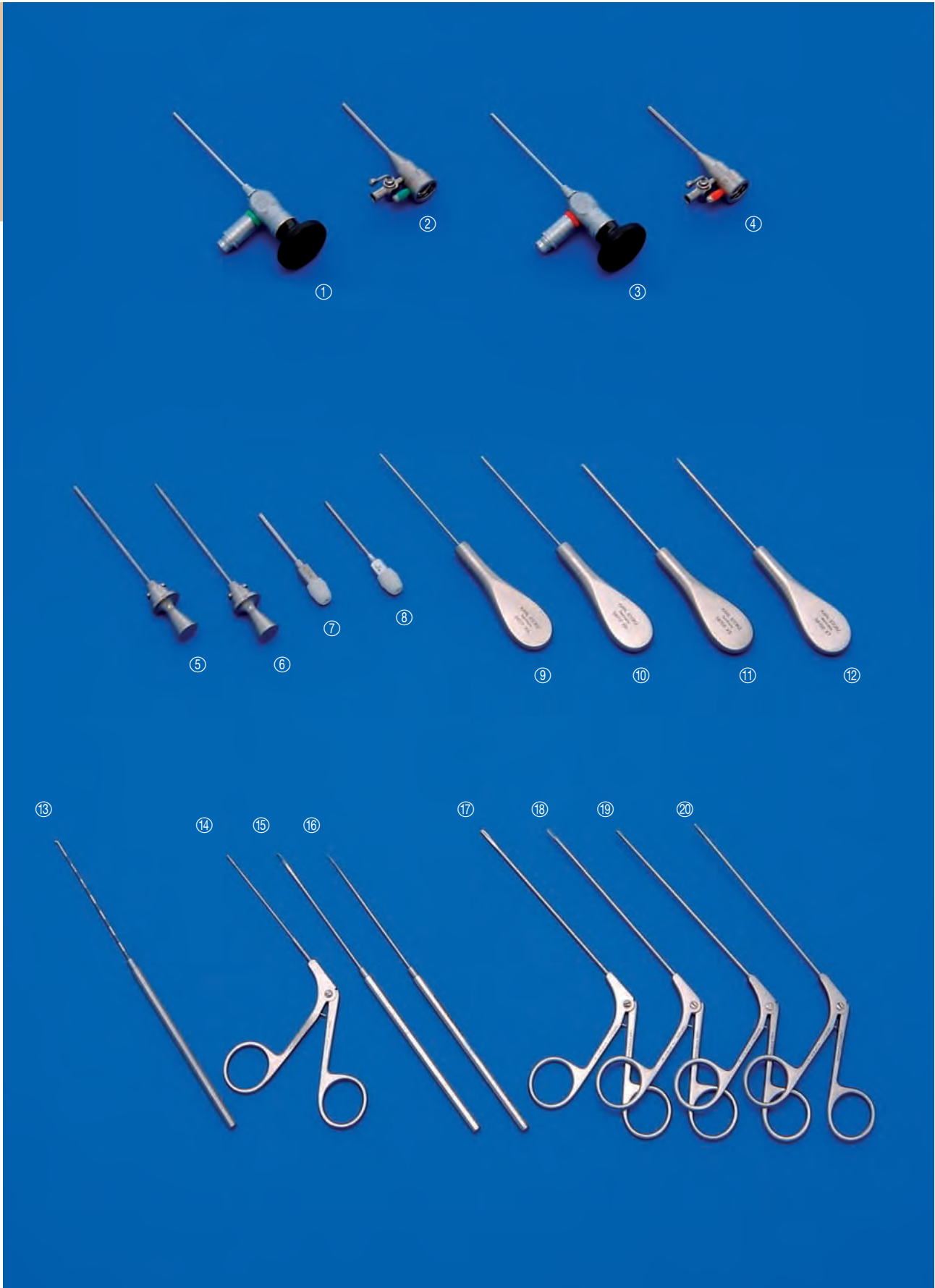
Basic Set for Endoscopically Assisted Surgery of the Ramus Condylar Region

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 AUFRIECHT **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
	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

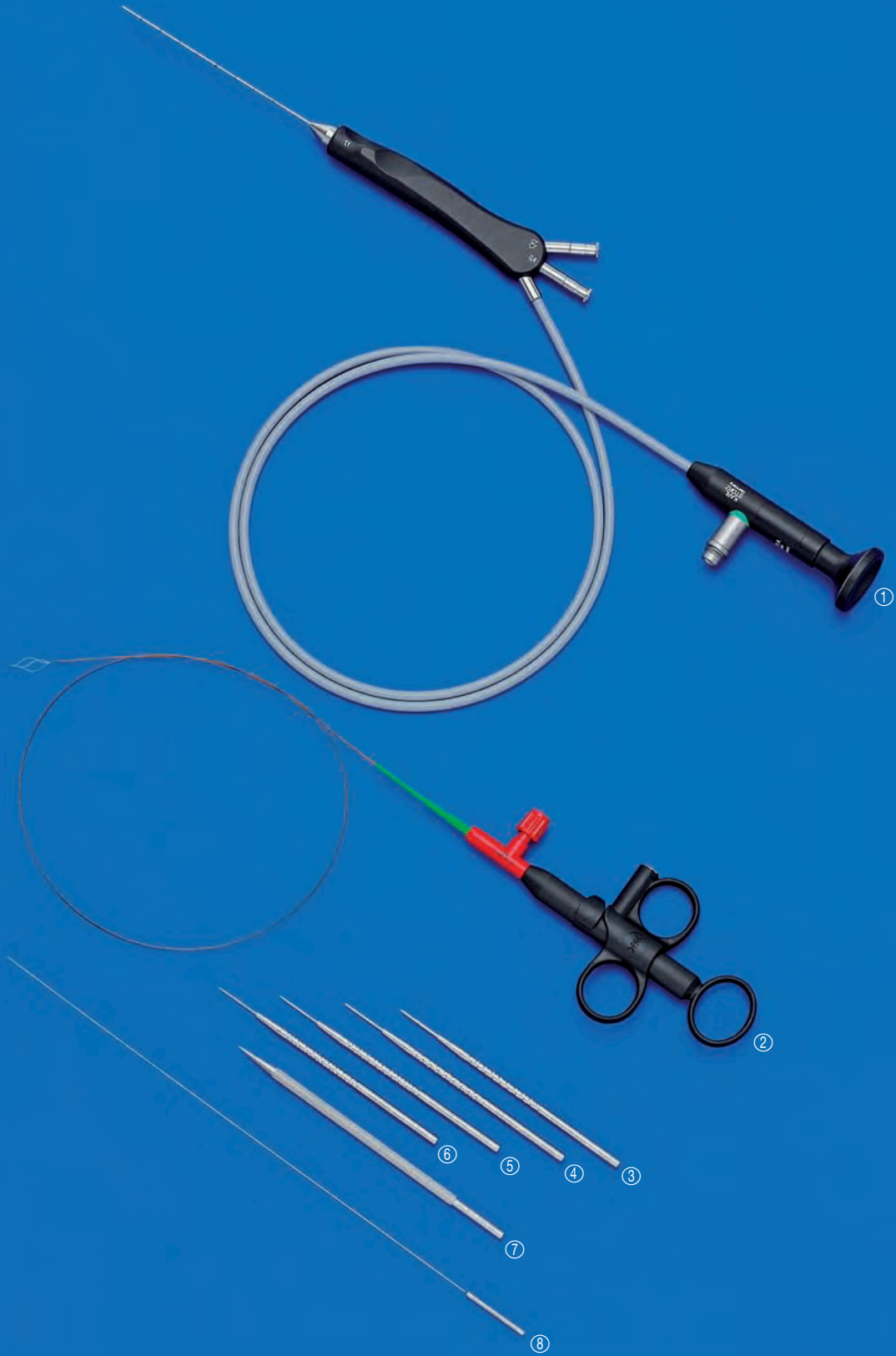
Basic Set

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

CHAPTER 6



10-11

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

Recommended Set, ERLANGEN model

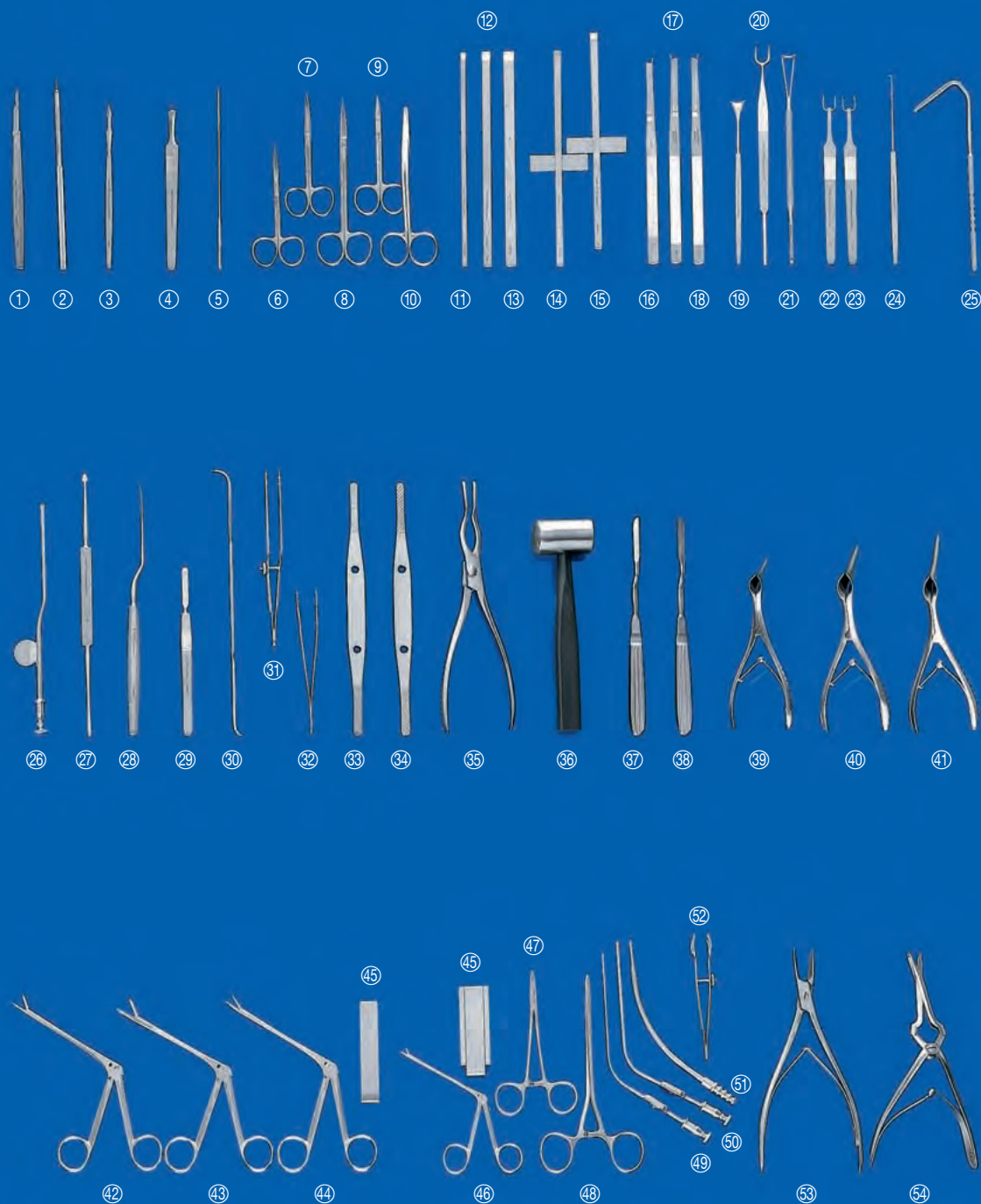
- ① 11574 A **Miniature Straight Forward Telescope 0°**, diameter 1.6 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, working channel diameter 0.85 mm, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated
for 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 Nasal Speculum , for adults, length 13 cm
②	403655	COTTLE Nasal Speculum , blade length 55 mm, length 13 cm
③	403555	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm
④	403575	Same , blade length 75 mm
⑤	403590	Same , blade length 90 mm
⑥	513410	COTTLE Scissors , curved, length 10.5 cm
⑦	511210	Scissors , extra delicate, curved, length 10 cm
⑧	511414	JOSEPH Scissors , curved, length 14 cm
⑨	513200	WALTER Scissors , angled, length 10 cm
⑩	456001	BLAKESLEY Nasal Forceps , size 1
⑪	456003	Same , size 3
⑫	455500	TAKAHASHI Nasal Forceps , working length 9.5 cm
⑬	449002	HEYMANN Nasal Scissors , medium
⑭	456502	BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 2
⑮	430300	LUBET-BARBON Nasal Dressing Forceps
⑯	204809	FERGUSON Suction Tube , 9 Fr.
⑰	843116	Bipolar Coagulating Forceps , angular
	847000 E	Bipolar High Frequency Cord , for Coagulation Forceps 843116, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
⑱	740000	BRÜNNINGS Tongue Depressor , length 19 cm
⑲	534500	COTTLE Columella Clamp , length 11 cm
⑳	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
㉑	530811	Tissue Forceps , 7 x 8 fine teeth, length 11 cm
㉒	530710	Dressing Forceps , delicate, length 10 cm
㉓	530910	Same , straight, 1 x 2 teeth
㉔	426516	JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm
㉕	534015	COTTLE Lower Lateral Forceps , bayonet-shaped
㉖	2x 417013	Cotton Applicators , triangular serrated, length 15 cm
㉗	496800	Nasal Knife , curved
㉘	493000	COTTLE Nasal Knife , rounded edge, length 14 cm
㉙	498400	COTTLE Retractor
㉚	478304	McKENTY Raspatory , width 4 mm
㉛	525800	Elevator , for reposition
㉜	484004	COTTLE Chisel , flat, width 4 mm
㉝	484007	Same , width 7 mm
㉞	174200	COTTLE Metal Mallet
㉟	479800	Suction Raspatory , with stylet
㊱	479200	COTTLE Elevator , double-ended
㊲	479000	MASING Elevator , double-ended
㊳	515017	Needle Holder , extra delicate, length 17 cm
㊴	516013	Needle Holder , tungsten carbide inserts, length 13 cm
㊵	791202	Scissors , curved, sharp/blunt, length 14.5 cm
㊶	6x 796011	BACKHAUS Towel Forceps , length 11 cm
㊷	440000	KRAUSE Nasal Snare , length 25 cm
㊸	443500	Nasal Snare Wire , for 440000 – 441510, package of 25
㊹	2x 810810	Cup Medicine , 100 ccm



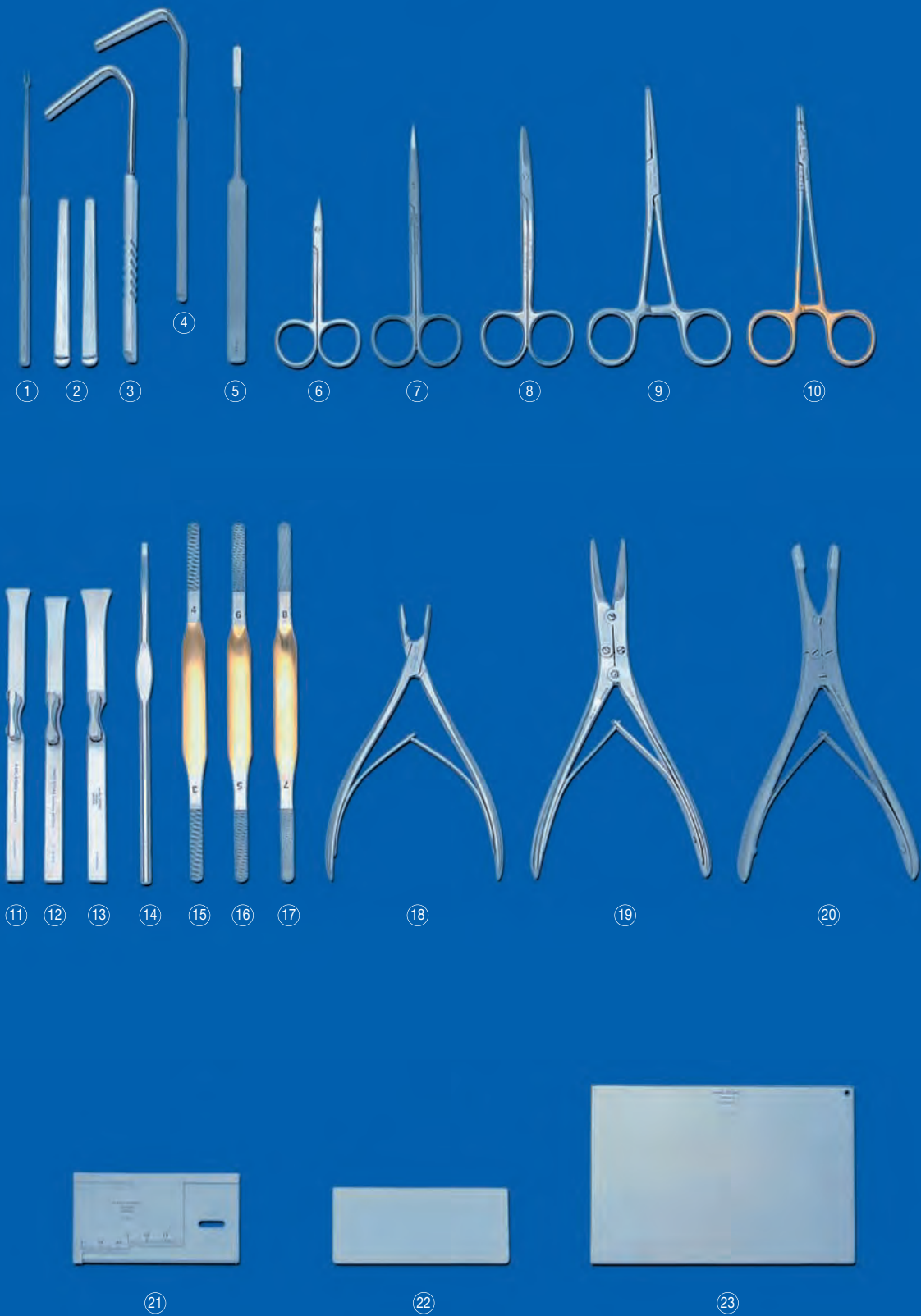
Basic Set for Rhinoplasty

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

Special Set for Rhinoplasty

Basic Set

CHAPTER 8 / 9



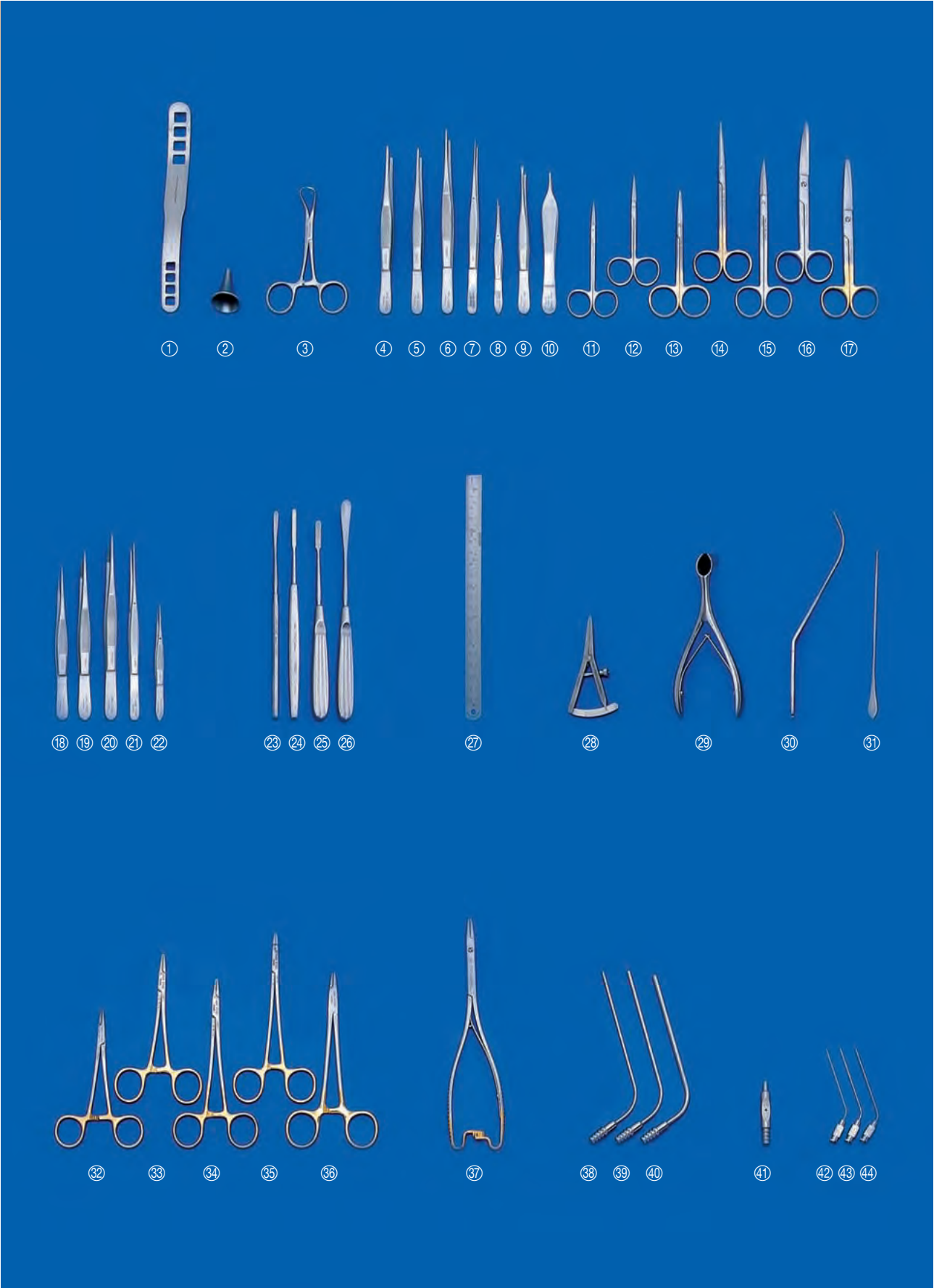
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Special Set for Rhinoplasty

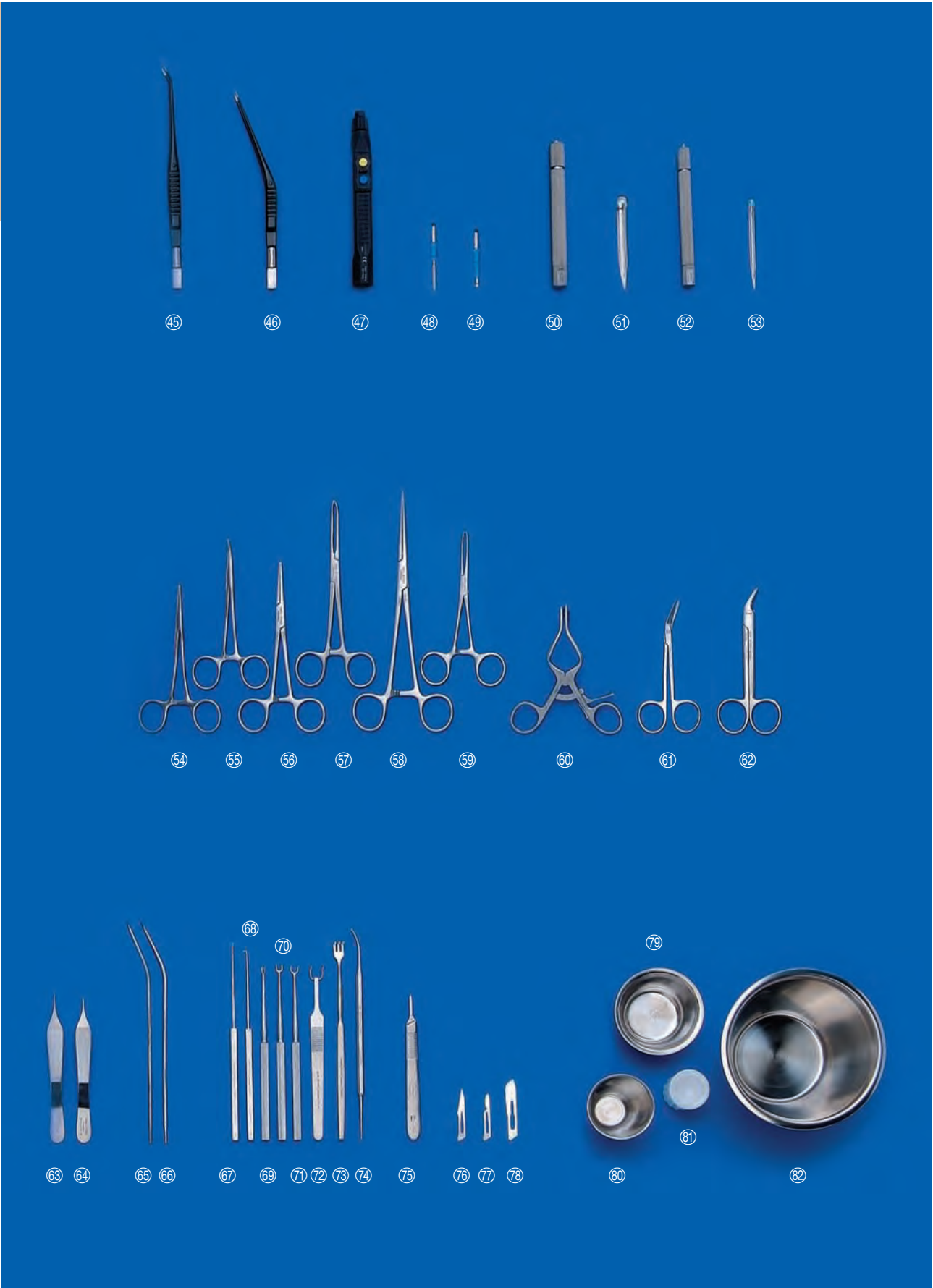
Basic Set

SIMMEN-BRINER Recommended Set

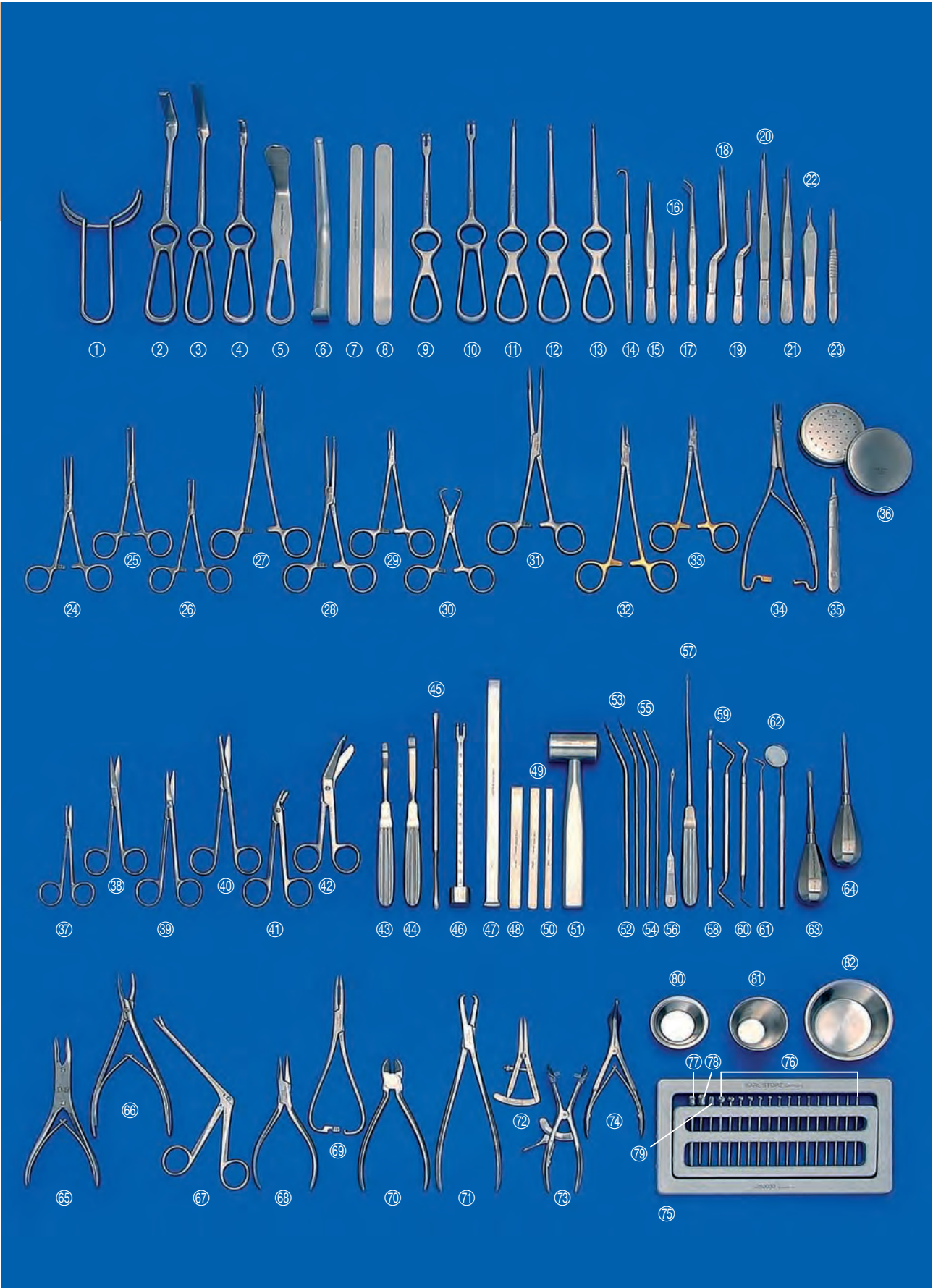
①	488060	Ala Double Hook , with octagonal handle, with 2 sharp points, width 2 mm, length 16.5 cm
②	2x 477098	Ala Dilator , for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
③	506400	AUFRIECHT Nasal Retractor , length 16.5 cm
④	488054	AUFRIECHT Nasal Retractor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



①	740000	BRÜNINGS Tongue Depressor , length 19 cm
②	122005	HARTMANN Ear Speculum , outer diameter 5 mm, length 3.6 cm
③	796011	BACKHAUS Towel Forceps , length 11 cm
④	793401	Tissue Forceps , 1 x 2 teeth, standard width, length 14.5 cm
⑤	793402	Same , medium width
⑥	793602	Tissue Forceps , 1 x 2 teeth, medium, length 16 cm
⑦	214200	WULLSTEIN Forceps , 1 x 2 teeth, length 15 cm
⑧	530910	Tissue Forceps , delicate, straight, 1 x 2 teeth, length 10 cm
⑨	532013	Tissue Forceps , straight, with 7 x 8 fine teeth, length 13 cm
⑩	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
⑪	213411	FISCH Scissors , fine, curved, sharp/sharp, length 10.5 cm
⑫	511010	Scissors , extra delicate, straight, length 10 cm
⑬	512511	Scissors , with tungsten carbide inserts, blunt/blunt, curved, length 11 cm
⑭	512614	METZENBAUM Scissors , with tungsten carbide inserts, curved, length 14 cm
⑮	213314	WULLSTEIN Scissors , curved, sharp/sharp, length 14 cm
⑯	791202	Scissors , curved, sharp/blunt, length 14.5 cm
⑰	790902	Scissors , with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
⑱	792303	Dressing Forceps , narrow width, length 13 cm
⑲	792402	Dressing Forceps , medium width, length 14.5 cm
⑳	792602	Dressing Forceps , medium width, length 16 cm
㉑	214000	WULLSTEIN Forceps , serrated, length 15 cm
㉒	530710	Dressing Forceps , delicate, length 10 cm
㉓	477004	HALLE Elevator , width 4 mm, length 19 cm
㉔	212803	LEMPERT Raspatory , width 3 mm, length 19 cm
㉕	478000	JOSEPH Raspatory , slightly curved, length 17.5 cm
㉖	479408	COTTLE Raspatory , slightly curved, width 8 mm, length 19.5 cm
㉗	525500	Rule , stainless steel, flexible, length 20 cm
㉘	525510	CASTROVIEJO Skin Measurement Caliper , measurement range 0 – 15 mm, length 8 cm
㉙	403540	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 40 mm, length 13.5 cm
㉚	416800	Nasal Probe , curved, working length 11 cm, total length 18 cm
㉛	797114	Myrtle Leaf Probe , diameter 1.5 mm, length 14.5 cm
㉜	516012	HALSEY Needle Holder , tungsten carbide inserts, length 12 cm
㉝	516013	Needle Holder , tungsten carbide inserts, length 13 cm
㉞	516015	Needle Holder , tungsten carbide inserts, length 15 cm
㉟	516115	RYDER Needle Holder , tungsten carbide inserts, extra delicate, length 15 cm
㊱	517500	Wire Twister Ligature Forceps , with tungsten carbide inserts, length 15 cm
㊲	798020	MATHIEU Needle Holder , slender, tungsten carbide inserts, length 20 cm
㊳	203725	Suction Tube , cylindrical, LUER, outer diameter 2.5 mm, working length 11 cm
㊴	203730	Same , outer diameter 3 mm
㊵	203740	Same , outer diameter 4 mm
㊶	204200	FISCH Suction Handle , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330
	204202	Same , without cut-off hole (not illustrated)
	204005	Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm
㊸	204007	Same , outer diameter 0.7 mm
㊹	204013	Same , outer diameter 1.3 mm



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



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

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

Dysgnathia Set

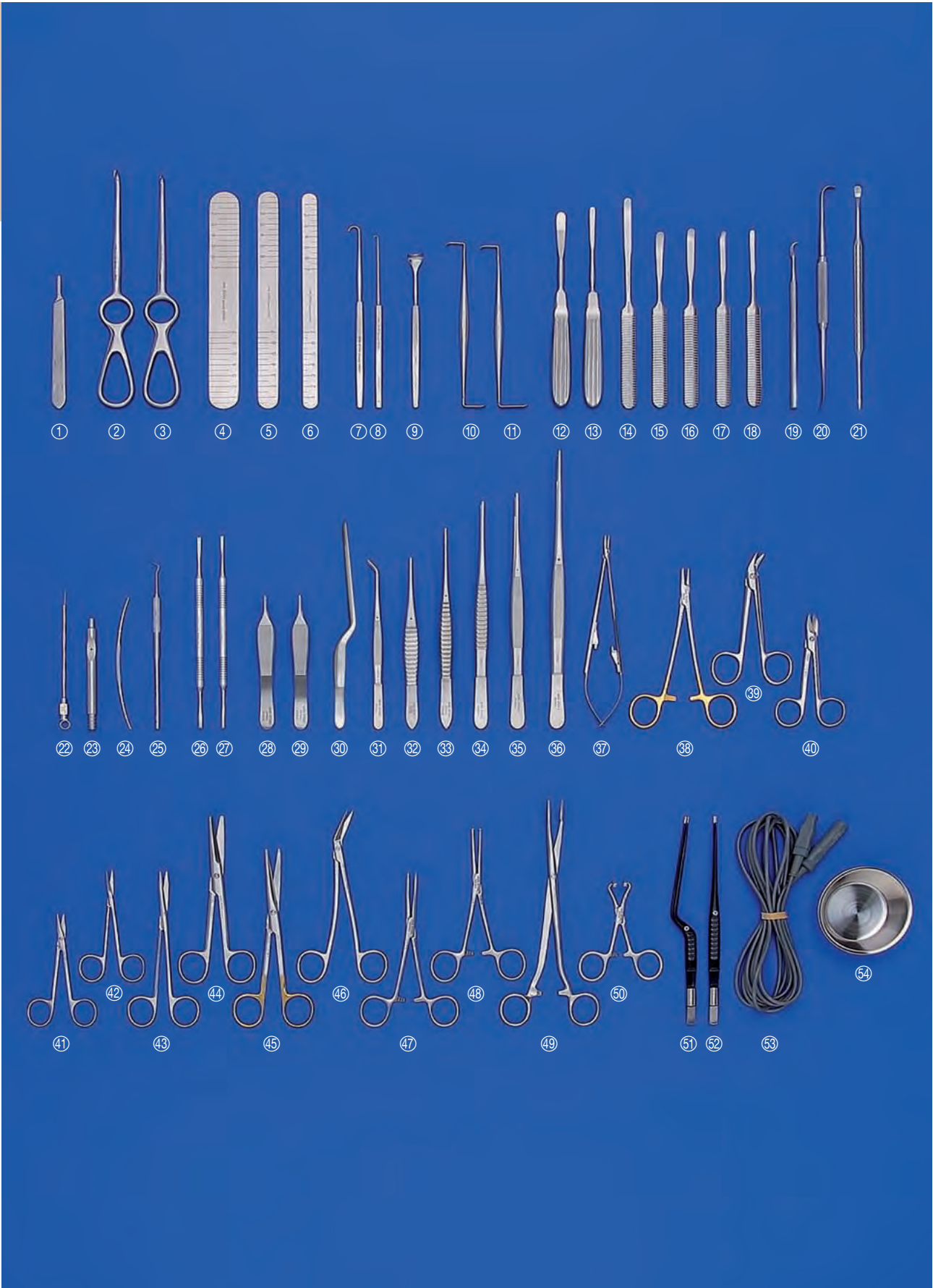
Basic Set

not illustrated:

40 7118 01-1	UNIDRIVE® OMFS SCB , 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
20 7110 32	High Performance EC Micro Motor , for use with KARL STORZ UNIDRIVE®II motor system
20 7110 72	Connecting Cable , to connect High Performance EC Motor 20 7110 32 to control unit
280052 B	Universal Spray , 500 ml bottle, for use with Spray Diffuser 280052 C - HAZARDOUS GOODS - UN 1950
280052 C	Spray Diffuser , for use with Universal Spray 280052 B
252495	INTRA Drill Handpiece , straight, long shape, length 10.4 cm, for use with straight shaft burrs, transmission 1:1 (40,000 rpm)
252475	INTRA Drill Handpiece , angled, length 12.5 cm, for use with straight shaft burrs, 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
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: – Up to 6 drill handpieces – Connecting cable – EC micro motor – Small parts
254200	Osseo Scalpel, Micro Saw , 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 Saw Blade , blade thickness 0.35 mm, working length 12 mm, package of 12, for use with 254200 Saw Blade , blade thickness 0.35 mm, working length 18 mm, package of 12, for use with 254200 Saw Blade , blade thickness 0.35 mm, working length 24 mm, package of 12, for use with 254200
254235	
254236	
254237	
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

Set for Reconstructive Orbital Surgery ^{NEW}
Basic Set

STORZ
KARL STORZ — ENDOSKOPE



Set for Reconstructive Orbital Surgery ^{NEW}

Basic Set

HANNOVER Recommended Set

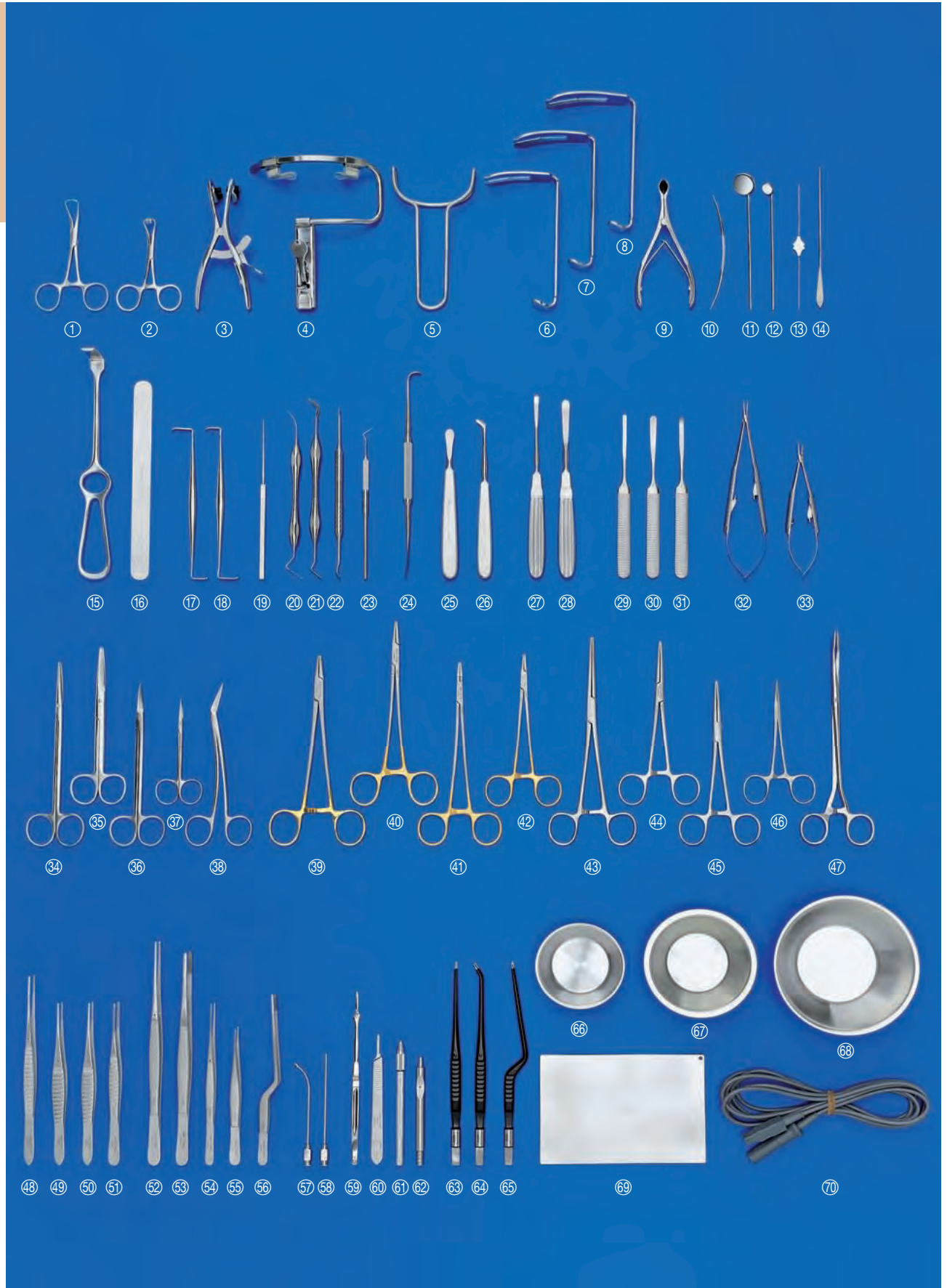
①	208000	Surgical Handle , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
②	800411	VOLKMANN Retractor , sharp, 1 prong, long curve for cheekbone, length 21 cm
③	800401	VOLKMANN Retractor , sharp, 1 prong, length 21 cm
④	635122	Orbital Spatula , with double graduation, width 22 mm, length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

Cleft Lip and Palate ^{NEW}

Basic Set

STORZ
KARL STORZ — ENDOSKOPE

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Cleft Lip and Palate ^{NEW}

Basic Set

① 4x 796011	BACKHAUS Towel Forceps , length 11 cm	③⑨ 798718	HEGAR-MAYO Needle Holder , robust, tungsten carbide inserts, length 18 cm
② 796109	Towel Forceps , with serrated inserts, length 9.5 cm, for paper cover sheets	④⑩ 516117	RYDER Needle Holder , tungsten carbide inserts, extra delicate, length 17 cm
③ 58195	DEHNHARDT Mouth Gag , length 12.5 cm	④① 798618	HEGAR Needle Holder , slender, tungsten carbide inserts, length 18 cm
④ 744510	DAVIS-MEYER Mouth Gag , special model, reverse opening, with 2 movable Tooth Hooks 744501, for use with Tongue Blades 743910 – 744505	④② 516015	Needle Holder , tungsten carbide inserts, length 15 cm
⑤ 2x 58157 L	Lip Retractor , length 15 cm	④③ 2x 794020	ROCHESTER-PEAN Artery Forceps , straight, length 20 cm
⑥ 744301	Tongue Blade , WURZBURG model, slotted, size 1	④④④⑤ 794516	OCHSNER-KOCHER Artery Forceps , straight, 1 x 2 teeth, length 16 cm
⑦ 744302	Same , size 2	④⑥ 6x 535212	HALSTEAD “Mosquito” Artery Forceps , curved, length 12.5 cm
⑧ 744303	Same , size 3	④⑦ 748220	DUPLAY Dressing and Sponge Holding Forceps , curved, with ratchet, length 21 cm
⑨ 400600	HARTMANN Nasal Speculum , for children, length 13 cm	④⑧ 793918	WAUGH Tissue Forceps , 1 x 2 teeth, length 18 cm
⑩ 745950	ZIEGLER Needle Probe , double-ended, length 10.5 cm	④⑨⑤⑩ 793216	GILLIES Tissue Forceps , serrated, 1 x 2 teeth, length 15.5 cm
⑪ 768106	Mouth Mirror , with RHODIUM front surface, autoclavable, without handle, stem without thread, size 6	⑤① 530416	“ATRAUMA” Atraumatic Tissue Forceps , length 16 cm
⑫ 768101	Same , size 1	⑤② 793220	WAUGH Tissue Forceps , serrated, 1 x 2 teeth, length 20 cm
⑬ 745800	BOWMAN Salivary Duct Probe , size 00 – 0, diameter 0.7 and 0.8 mm, length 13 cm	⑤③ 750000	Forceps , serrated, width 4 mm, length 20 cm
⑭ 797114	Myrtle Leaf Probe , diameter 1.5 mm, length 14.5 cm	⑤④ 214200	WULLSTEIN Forceps , 1 x 2 teeth, length 15 cm
⑮ 2x 58154	Retractor , solid, straight, size 40 x 13 mm, length 21.5 cm	⑤⑤ 792303	Dressing Forceps , narrow width, length 13 cm
⑯ 635017	Spatula , malleable, width 17 mm, length 20 cm	⑤⑥ 426516	JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm
⑰⑱ 505600	SENN Retractor , double-ended, blunt, length 15 cm	⑤⑦ 586020	Antrum Cannula , LUER-Lock, long curve, with olive, without grip plate, outer diameter 2 mm, length 9 cm
⑲ 499101	Hook , one prong, sharp curve, length 16.5 cm	⑤⑧ 3x 204320	Suction Tube , straight, LUER-Lock, malleable, outer diameter 2 mm, length 10 cm
⑳ 58961 SS	Palpation Probe , scaled, length 17 cm	⑤⑨ 2x 748000	Surgical Handle , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
㉑ 58958 R	HEIDEMANN Spatula , length 18.5 cm	⑥⑩ 208000	Surgical Handle , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
㉒ 58961 LS	Periosteal Elevator , double-ended	⑥① 770600	Handle , with central screw connection, length 11.5 cm, for mouth mirrors
㉓ 58960 ZR	Dental Probe , fine, flexible, length 15.5 cm	⑥② 204001	Adaptor , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 10 cm
㉔ 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	⑥③ 841219	Bipolar Coagulating Forceps , insulated, straight, blunt, tip 1 mm, length 19 cm
㉕ 58128 T	TRELAT Raspatory , width 8 mm, length 15 cm	⑥④ 842219	Same , angled tip, tip 2 mm
㉖ 58969	Syndesmotome , angled, length 16 cm	⑥⑤ 844219	Same , bayonet-shaped, tip 1 mm
㉗ 58124 O	Raspatory , flat, width 4 mm, length 18 cm	⑥⑥ 2x 810810	Cup Medicine , 100 ccm, diameter 80 mm, height 30 mm
㉘ 58127 O	Raspatory , flat, width 7 mm, length 17.5 cm	⑥⑦ 2x 810820	Cup Medicine , 200 ccm, diameter 100 mm, height 50 mm
㉙ 169503	WILLIGER Elevator , width 3.5 mm, length 16 cm	⑥⑧ 810840	Cup Medicine , 400 ccm, diameter 130 mm, height 65 mm
③⑩ 58126 BRG	WILLIGER Raspatory , flat, width 6 mm, length 16 cm	⑥⑨ 523913	Metal Tray , for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
③① 58124 KWG	KAHRE-WILLIGER Raspatory , curved, width 4 mm, length 16 cm	⑦⑩ 847000 E	Bipolar High Frequency Cord , 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
③② 799218	BARRAQUER Micro Needle Holder , with round spring handle, curved, smooth-coated jaws, with ratchet, length 18 cm		
③③ 799414	BARRAQUER Micro Needle Holder , with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm		
③④ 752918	METZENBAUM Scissors , curved, length 18 cm		
③⑤ 791903	MAYO Scissors , straight, length 15 cm		
③⑥ 58180	KELLY Scissors , sharp/sharp, curved, length 15.5 cm		
③⑦ 213411	FISCH Scissors , fine, curved, sharp/sharp, length 10.5 cm		
③⑧ 58182	LOCKLIN Gum Scissors , serrated, length 16 cm		

Set for Alveoler Ridge Augmentation ^{NEW}

Basic Set

STORZ
KARL STORZ — ENDOSKOPE

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Set for Alveolar Ridge Augmentation

NEW

Basic Set

STORZ
KARL STORZ — ENDOSKOPE

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HANNOVER Recommended Set

①	748000	Surgical Handle , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
②	58153	Retractor , solid, straight, size 60 x 13 mm, length 21.5 cm
③	58154	Retractor , solid, straight, size 40 x 13 mm, length 21.5 cm
④	801201	MIDDELDORPF Retractor , with grid handle, small, size 1, 15 x 15 mm, length 20 cm
⑤	479408	COTTLE Raspatory , slightly curved, width 8 mm, length 19.5 cm
⑥	58126 BRG	WILLIGER Raspatory , flat, width 6 mm, length 16 cm
⑦	58960 K	Dental Calculus Hook , curved upwards, double-sided grinding, length 15 cm
⑧	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
⑨	792318	Dressing Forceps , tungsten carbide inserts, width 1.8 mm, length 18 cm
⑩	793216	GILLIES Tissue Forceps , serrated, 1 x 2 teeth, length 15.5 cm
⑪	745715	Dressing Forceps , angled, length 15 cm
⑫	58103 OM	Osteotome , flat, double-edged grinding, width 3 mm, length 15.5 cm
⑬	58104 OM	Same , width 4 mm
⑭	58107 OM	Same , width 7 mm
⑮	174200	COTTLE Metal Mallet , length 18 cm
⑯	586020	Antrum Cannula , LUER-Lock, long curved, with olive, without grip plate, outer diameter 2 mm, length 9 cm
⑰	745802	BOWMAN Salivary Duct Probe , size 1 – 2, diameter 0.9 and 1.1 mm, length 13 cm
⑱	58950 G	Handle for Mouth Mirrors , length 12.5 cm, for use with Mouth Mirror 58950 ES
	58950 ES	Mouth Mirror , non-magnifying, diameter 22 mm, for use with Handle 58950 G
	58973	BORMANN Positioning Instrument , 3-toothed, straight/curved, length 20 cm
⑳	58961 SC	Sinus Lift Elevator , double-ended, blunt/blunt, S-shaped, short/long curve, length 19.5 cm
㉑	58961 SB	Sinus Lift Elevator , double-ended, sharp/sharp, double curve left/right, length 19.5 cm
㉒	58961 SD	Sinus Lift Elevator , double-ended, blunt/blunt, bayonet-shaped, short/long curve, length 19.5 cm
㉓	58961 E	White Excavator , double-ended, Fig. 19, length 17.5 cm
㉔	58958 R	HEIDEMANN Spatula , length 18.5 cm
㉕	58971	LUNIATSCHEK Gauze Packer , double-ended, straight/curved, size 2, length 18 cm
㉖	58962 R	HEMINGWAY Dental Curette , double-ended, size 1, length 18.5 cm
㉗	58961 SS	Palpation Probe , scaled, length 17 cm
㉘	499001	KILNER-GILLIES Hook , one prong, small curve, length 17 cm
㉙	58961 LS	Periosteal Elevator , double-ended, rounded elevator 2.8 mm/lancet 3.4 mm
㉚	2x 214555	Needle Holder , spring-action, curved, without ratchet, length 16 cm
㉛	516015	Needle Holder , tungsten carbide inserts, length 15 cm
㉜	2x 794514	OCHSNER-KOCHER Artery Forceps , straight, 1 x 2 teeth, length 14 cm
㉝	4x 796008	BACKHAUS Towel Forceps , length 8 cm
㉞	792003	MAYO Scissors , curved, length 15 cm
㉟	58182	LOCKLIN Gum Scissors , serrated, length 16 cm
㊱	489044	LUER-RUSKIN Rongeur , with double joint, curved, 2 mm, length 15 cm
㊲	748220	DUPLAY Dressing and Sponge Holding Forceps , curved, with ratchet, length 21 cm
㊳	847000 E	Bipolar High Frequency Cord , for KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), AUTOCON®II 400 SCB system (111, 113, 115) and Erbe-Coagulator, T and ICC series, length 300 cm
㊴	842219	Bipolar Coagulating Forceps , insulated, angled tip, blunt, tip 2 mm, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
㊵	523913	Metal Tray , for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
㊶	810810	Cup Medicine , 100 ccm, diameter 80 mm, height 30 mm
㊷	810820	Cup Medicine , 200 ccm, diameter 100 mm, height 50 mm
㊸	810840	Cup Medicine , 400 ccm, diameter 130 mm, height 65 mm
㊹	58900 G	GELLRICH Bone Preparation Block , 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

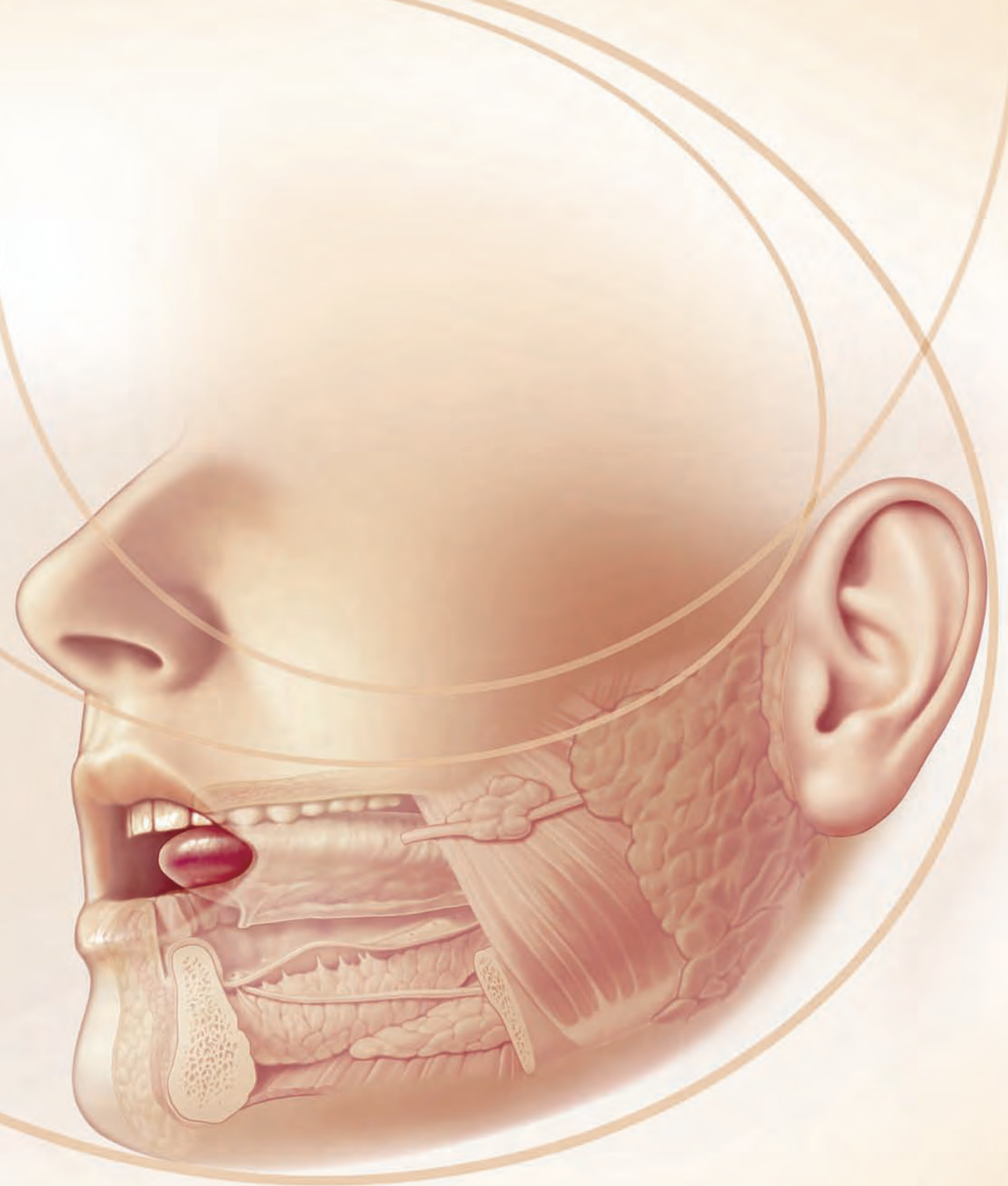
Instruments for Dissection

Basic Set for Dental Surgery

Set recommended by SCHLEIER, M. D.



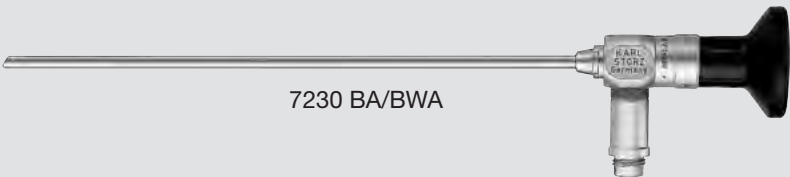
- ① 208000 **Surgical Handle**, Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15
- ② 792603 **Dressing Forceps**, narrow width, length 16 cm
- ③ 793603 **Tissue Forceps**, 1 x 2 teeth, narrow, length 16 cm
- ④ 58180 **KELLY Scissors**, sharp/sharp, curved, length 15.5 cm
- ⑤ 798418 **HEGAR 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)



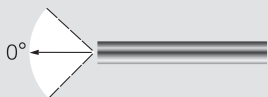
**TELESCOPES AND INSTRUMENTS
FOR ENDOSCOPIC
FRACTURE TREATMENT**

HOPKINS® II Telescopes
autoclavable

Diameter 4 mm, length 18 cm



7230 BA/BWA



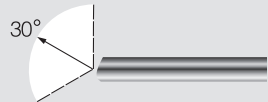
7230 AA

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

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 temperomandibular 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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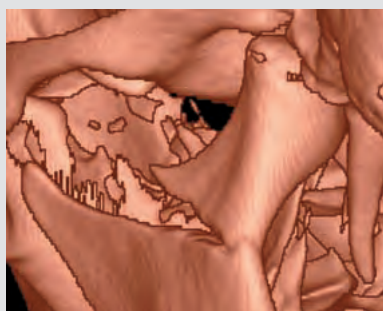


Fig. 1a: Three-dimensional CT of a dislocated condylar process fracture.

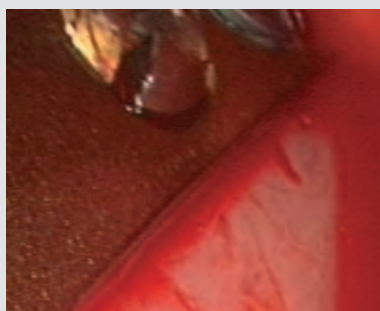


Fig. 1b: Intraoperative endoscopic image of the dorsal edge of the ascending mandibular ramus following transoral anatomical fracture positioning and fixation.

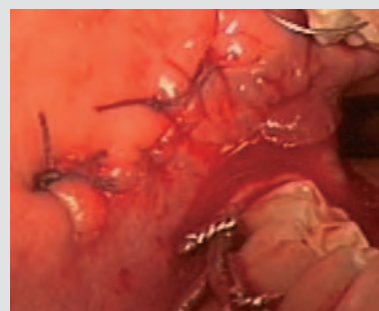


Fig. 1c: Precise repositioning is achieved through a limited transoral incision.



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



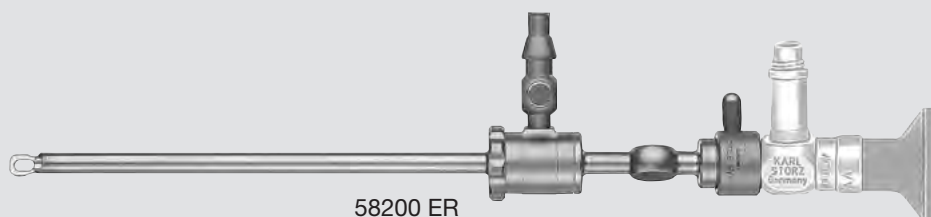
Fig. 1e: Postoperative panoramic view of the restored vertical ramus height through transoral endoscopically assisted osteosynthesis. Normal functioning of the mandibular joint and occlusion is achieved.



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



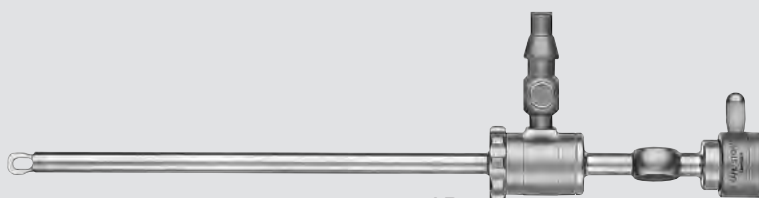
NEW 58200 ER

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



58200 ES

Same, large, sharp

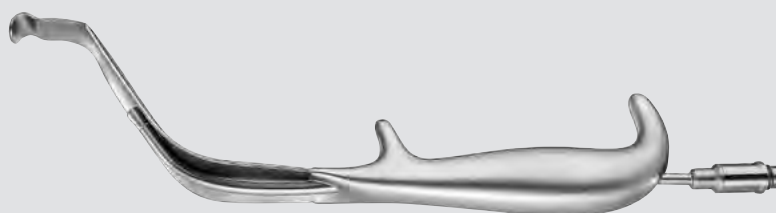


58200 AR



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

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

curved



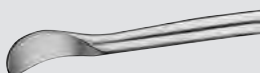
58210 CGA



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

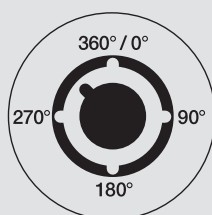


NEW 58210 UKA **Raspatory**, slightly curved, hollow grinding,
width 8 mm, working length 15 cm



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'line® 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'line® 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

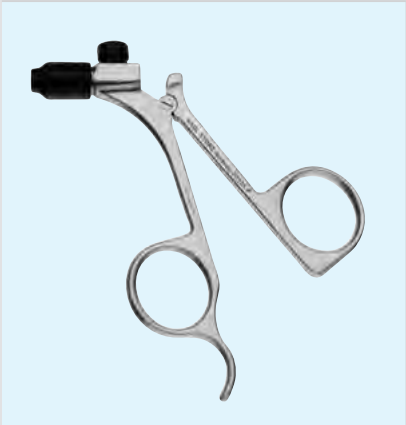
CLICK'line®, dismantling – non-rotating, can be locked in 4 positions

Straight sheath				
a)	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'liné Dissecting and Grasping Forceps			
12				
12 Jaw length in mm (approximate measurements)				

Please note:
For CLICK'line® 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**

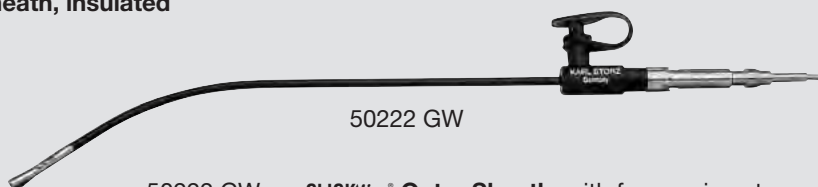
Outer Sheath, insulated



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^{line}, dismantling – non-rotating, with 4 locking positions

Straight Sheath



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 ^{line} Dissecting and Grasping Forceps		
12			

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 ^{line} Scissors, curved			
15				

Dissecting and Grasping Forceps, Scissors

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

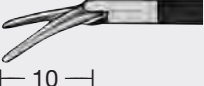
Curved sheath



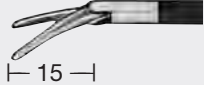
Size 3 mm

Length	Handle		
	33125 P	33131 P	33136 P
18 cm			

Double action jaws

Outer Sheath with Working Insert	Complete Instrument		
50222 GG  9	50232 GG	50226 GG	50230 GG
CLICK'linē Dissecting and Grasping Forceps, robust			
50222 GW  9	50232 GW	50226 GW	50230 GW
CLICK'linē Dissecting and Grasping Forceps, robust, horizontal opening			
50221 GW  10	50231 GW	50225 GW	50229 GW
CLICK'linē Scissors, curved, horizontal opening			

Size 5 mm

Outer Sheath with Working Insert	Complete Instrument		
50236 GW  9	50246 GW	50240 GW	50244 GW
CLICK'linē Dissecting and Grasping Forceps, robust, horizontal opening			
50235 GW  15	50245 GW	50239 GW	50243 GW
CLICK'linē Scissors, serrated, curved, horizontal opening			

Handles

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



TAKE-APART® Standard Bipolar Instruments, consisting of:

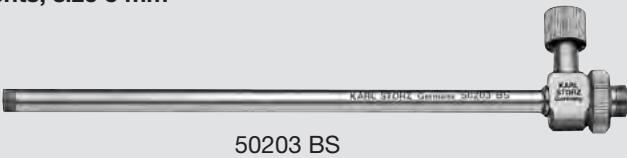
- Handle
- Outer Sheath
- Working Insert

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 **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**

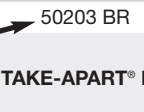


Bipolar Forceps

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  (a)	50203 BR (c)  TAKE-APART® Bipolar Forceps, with fine jaws, width 1.5 mm	50203 BH	50203 BA

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

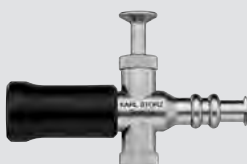


Length	Handle		
	26196 HR	26196 HM	26196 HA
15 cm			

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



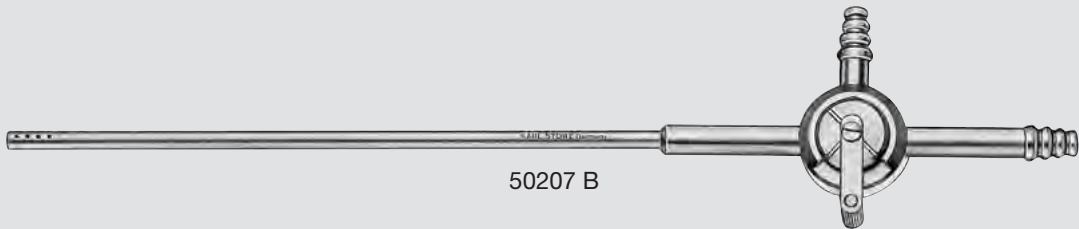
50203 DU

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

High Frequency Cords for unipolar coagulation see chapter 15, UNITS

Suction and Irrigation Tubes,
Bipolar Coagulation Electrode

Size 5 mm



50207 B



50207 B

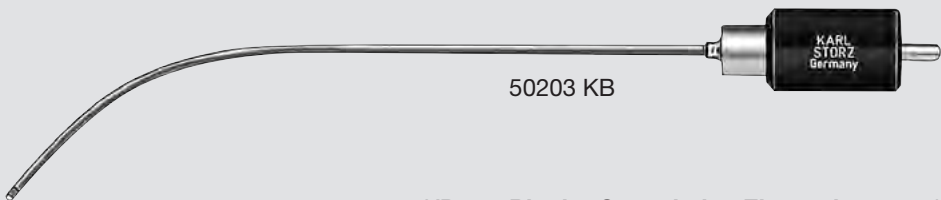
Suction and Irrigation Tube, straight sheath, with lateral holes, with two-way stopcock for single-hand control, diameter 5 mm, working length 15 cm



50207 BG

Same, curved sheath

Size 3 mm



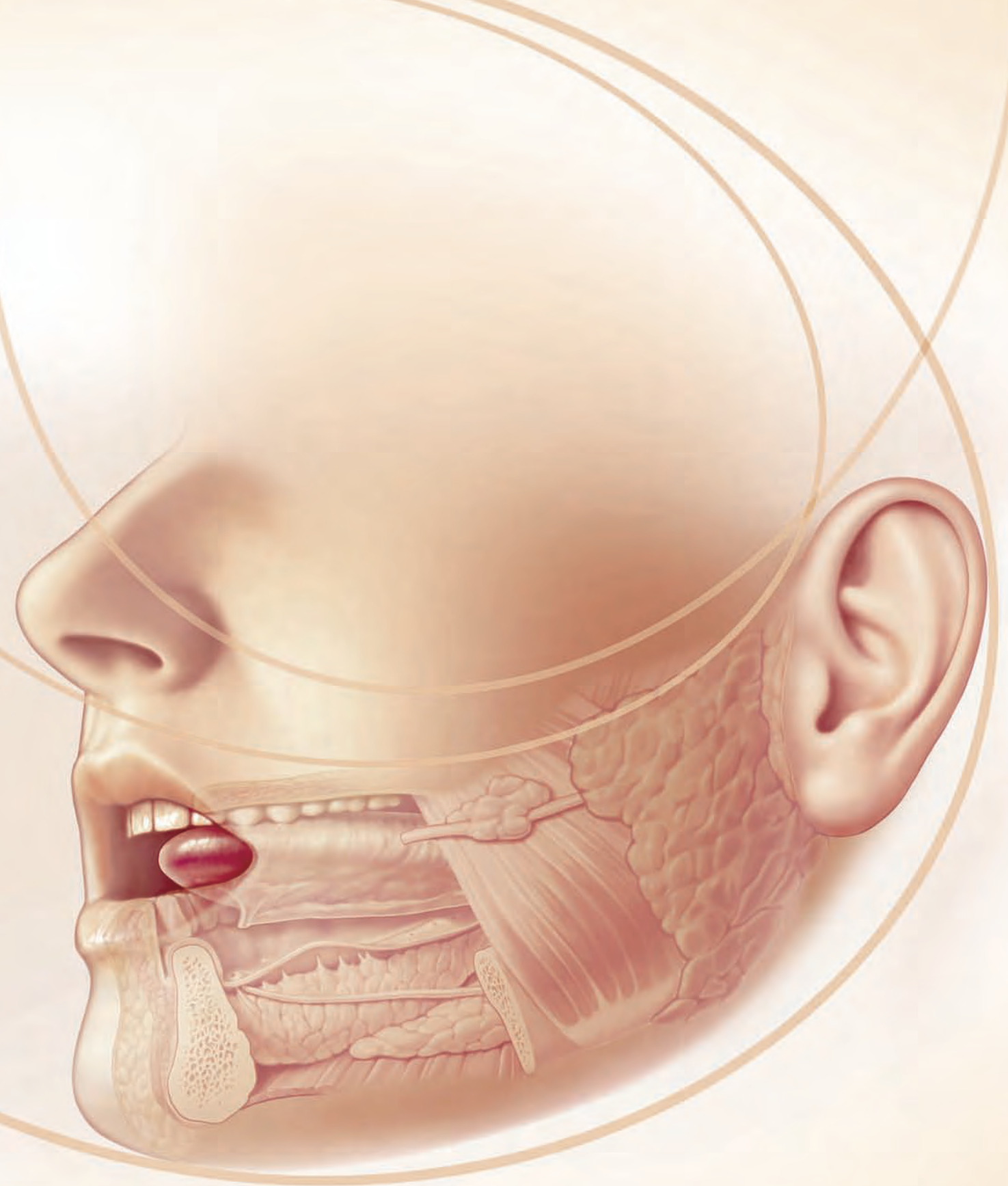
50203 KB

50203 KB

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



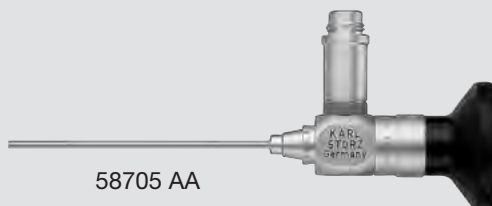
High Frequency Cords for bipolar coagulation see chapter 15, UNITS



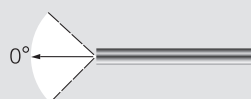
**TELESOPES AND INSTRUMENTS FOR
ARTHROSCOPY OF
TEMPOROMANDIBULAR JOINT**

Telescopes and Sheaths

for arthroscopy of temporomandibular joint



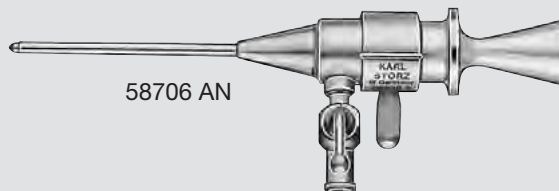
58705 AA



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

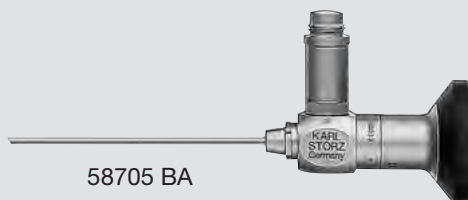
Obturator, sharp, for use with High-Flow Arthroscope Sheaths 58706 AN/BN

58706 BT

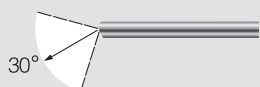
Obturator, blunt, for use with High-Flow Arthroscope Sheaths 58706 AN/BN

Telescopes and Sheaths

for arthroscopy of temporomandibular joint



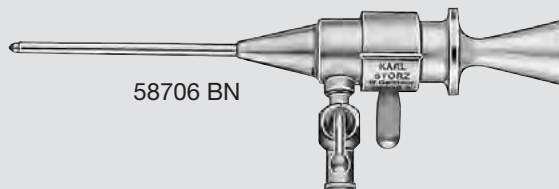
58705 BA



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

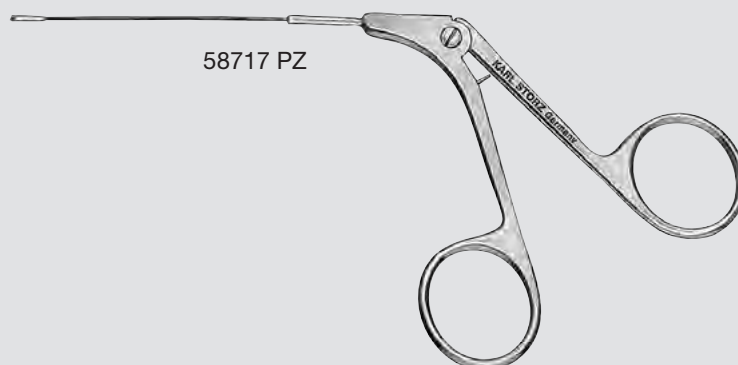


58702 W

- 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



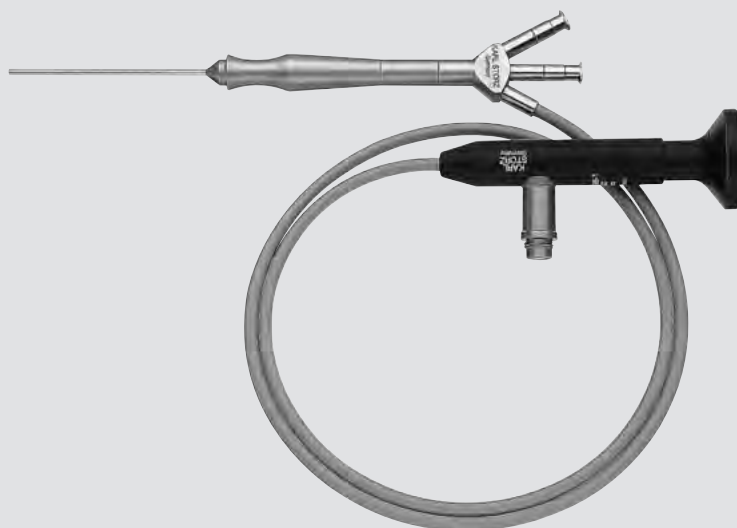
58702 M

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



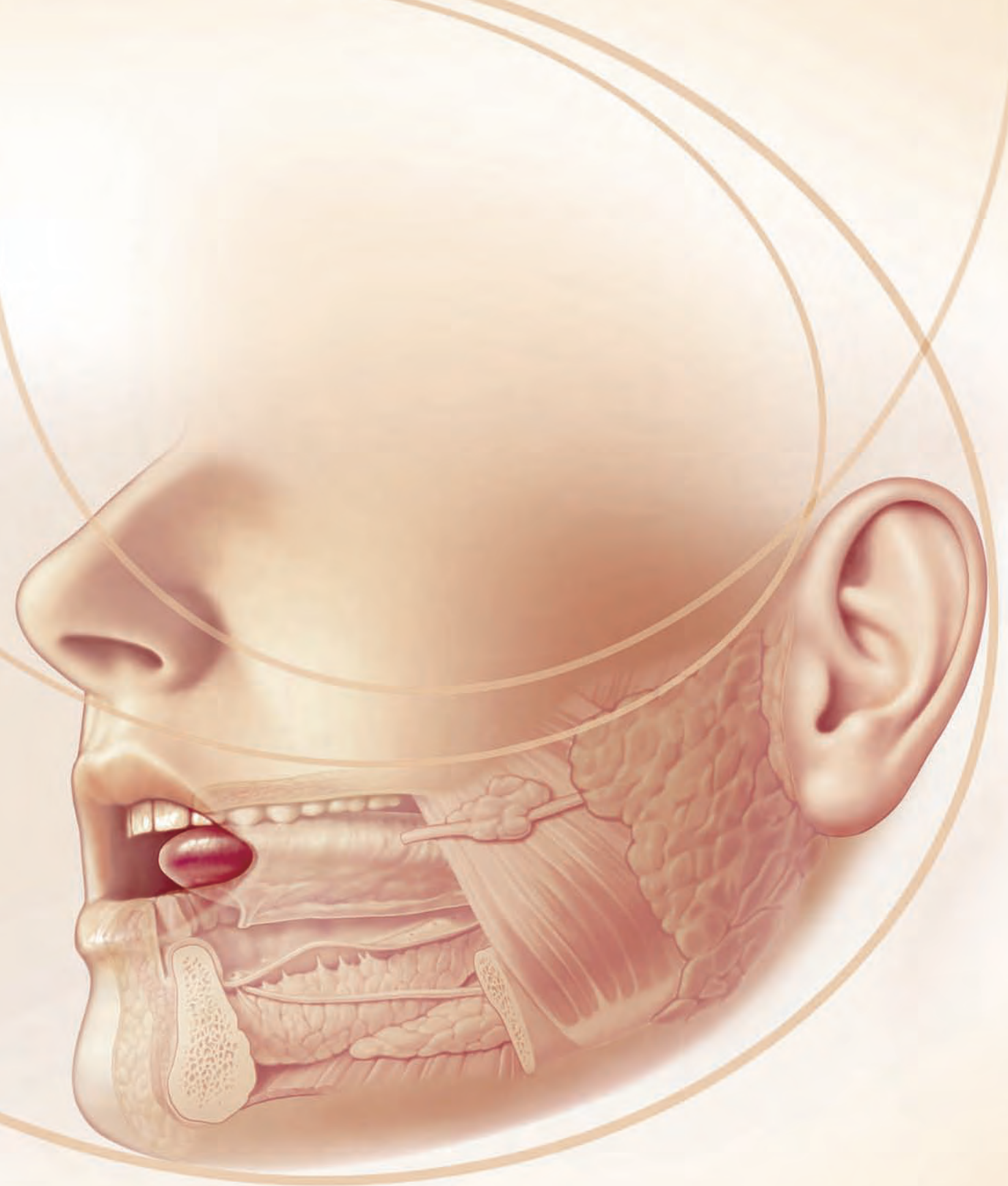
58702 S

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

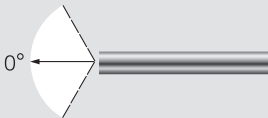


TELESCOPES AND INSTRUMENTS FOR MAXILLARY ENDOSCOPY

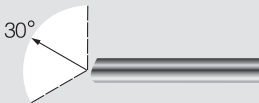
Diameter 4 mm, length 18 cm



7230 AWA



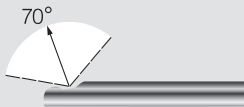
7230 AWA **HOPKINS® II Wide Angle Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



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

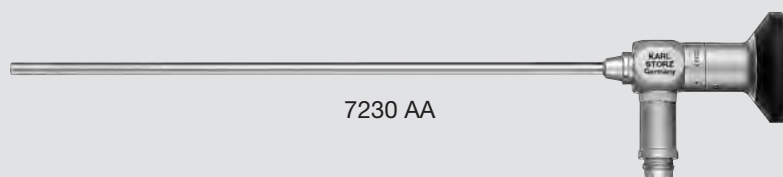


7230 FWA **HOPKINS® II Wide Angle Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



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

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



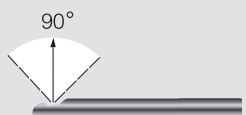
7230 FA

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



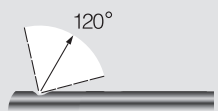
7230 CA

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



7230 DA

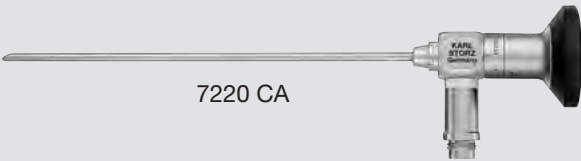
HOPKINS® II Lateral Telescope 90°,
enlarged view, diameter 4 mm, length 18 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: blue



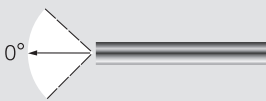
7230 EA

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

Diameter 3 mm, length 14 cm, extra large view



7220 CA



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

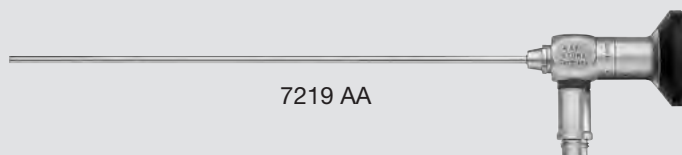
HOPKINS® II Forward-Oblique Telescope 45°,
enlarged view, diameter 3 mm, length 14 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: black



7220 CA

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

Diameter 2.7 mm, length 18 cm



7219 AA



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



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

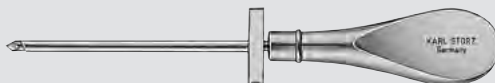


723005 B



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

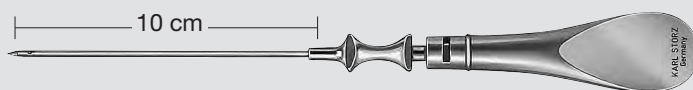


723103 B

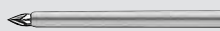


723103 B

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



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

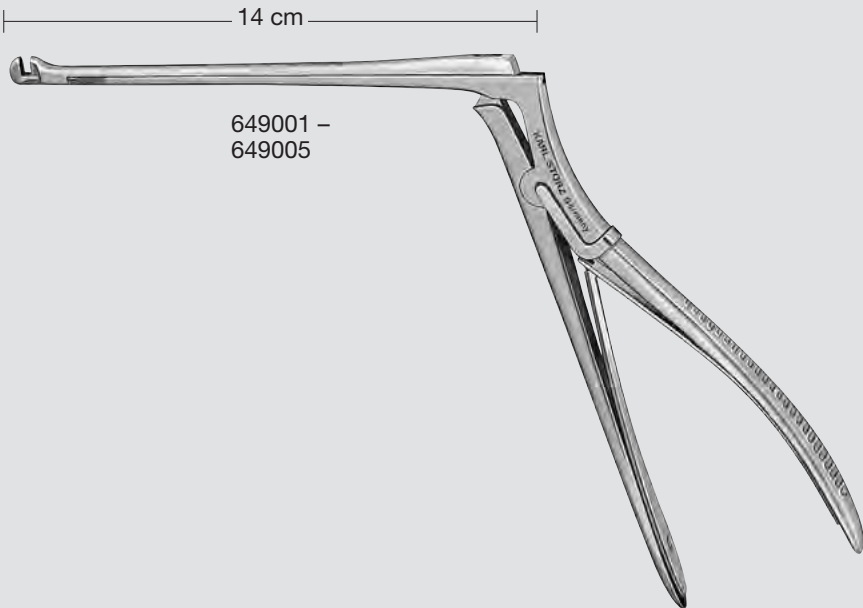


723774

- 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



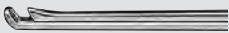
649001

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

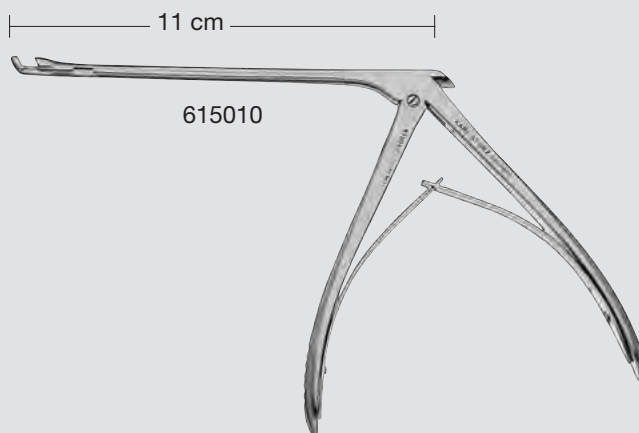


649005

Same, upbiting forward

Instruments for Sinoscopy

Punches

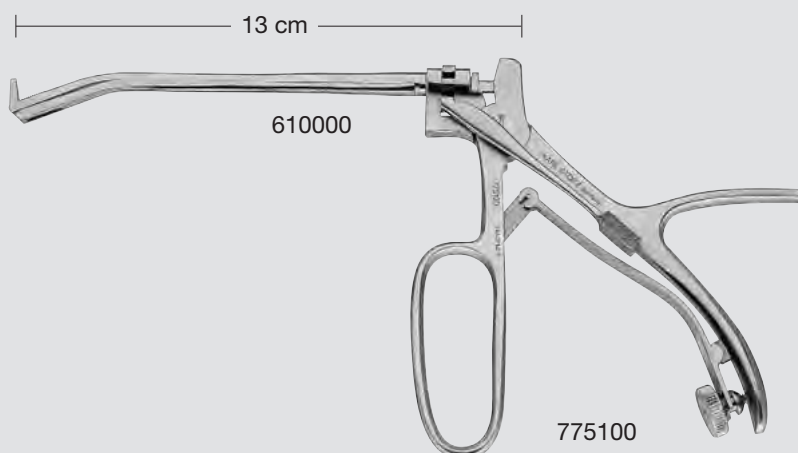


615010



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

775100

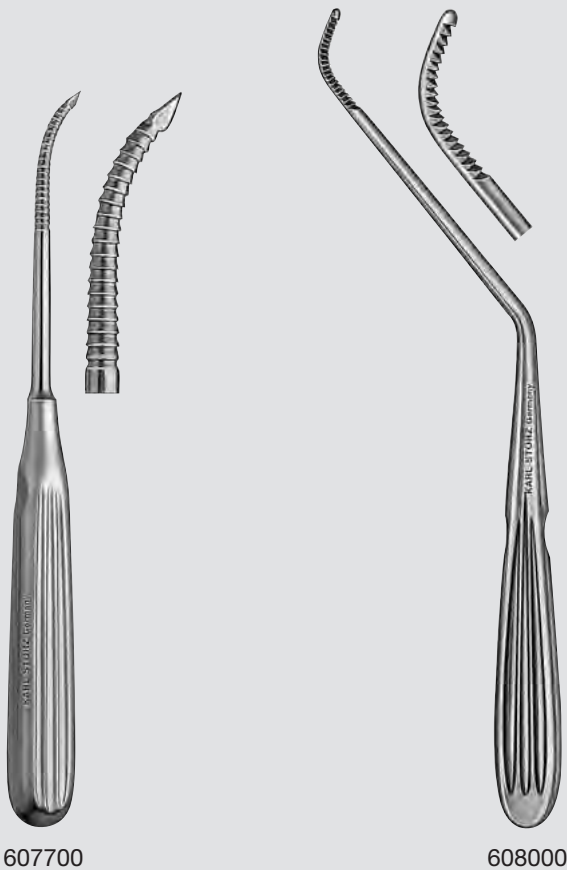


610000

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

775100

Universal Handle, for 610000 and 775600 – 775950

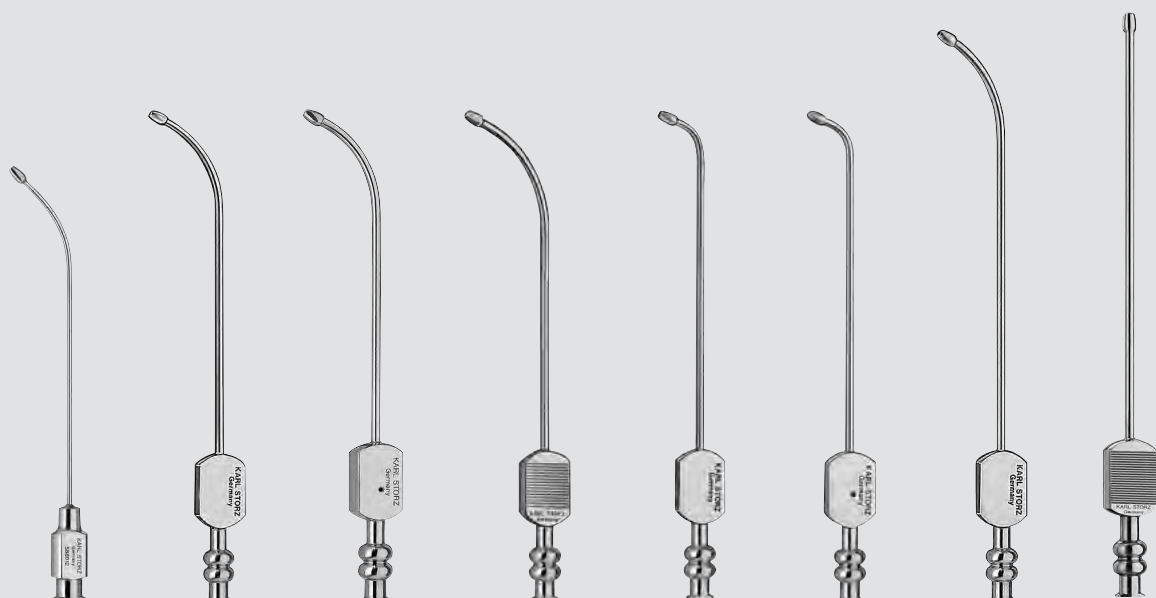


607700 **WIENER Antrum Rasp,**
with trocar tip, length 19.5 cm

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

Instruments for Sinoscopy

Antrum Cannulas



586012 –
586020

586025 –
586040

586026
586031

586125
586130

586225 –
586240

586226 –
586241

586325 –
586340

586525

586012

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

586015

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

586020

Same, outer diameter 2 mm

586025

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

586030

Same, outer diameter 3 mm

586040

Same, outer diameter 4 mm

586026

v. EICKEN **Antrum Cannula**, LUER-Lock, with cut-off hole, long curved, outer diameter 2.5 mm, length 12.5 cm

586031

Same, outer diameter 3 mm

586125

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

586130

Same, outer diameter 3 mm

586225

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

586230

Same, outer diameter 3 mm

586240

Same, outer diameter 4 mm

586226

v. EICKEN **Antrum Cannula**, LUER-Lock, with cut-off hole, short curved, outer diameter 2.5 mm, length 12.5 cm

586231

Same, outer diameter 3 mm

586241

Same, outer diameter 4 mm

586325

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

586330

Same, outer diameter 3 mm

586340

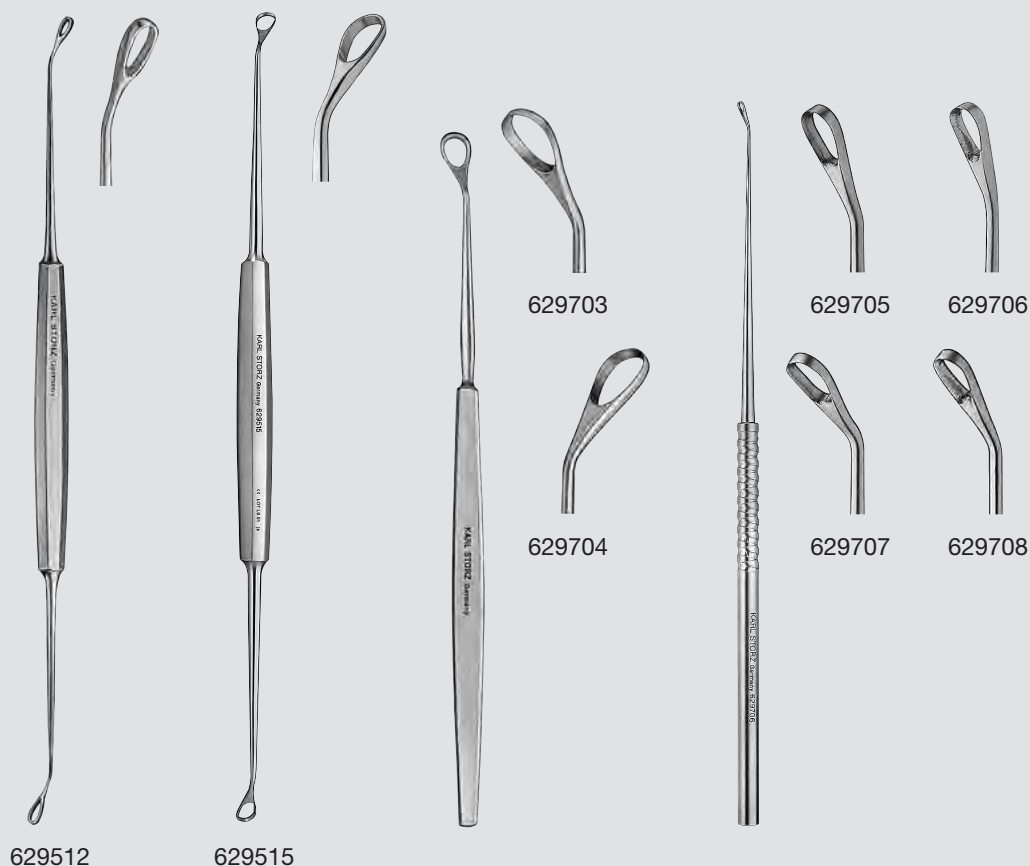
Same, outer diameter 4 mm

586525

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

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

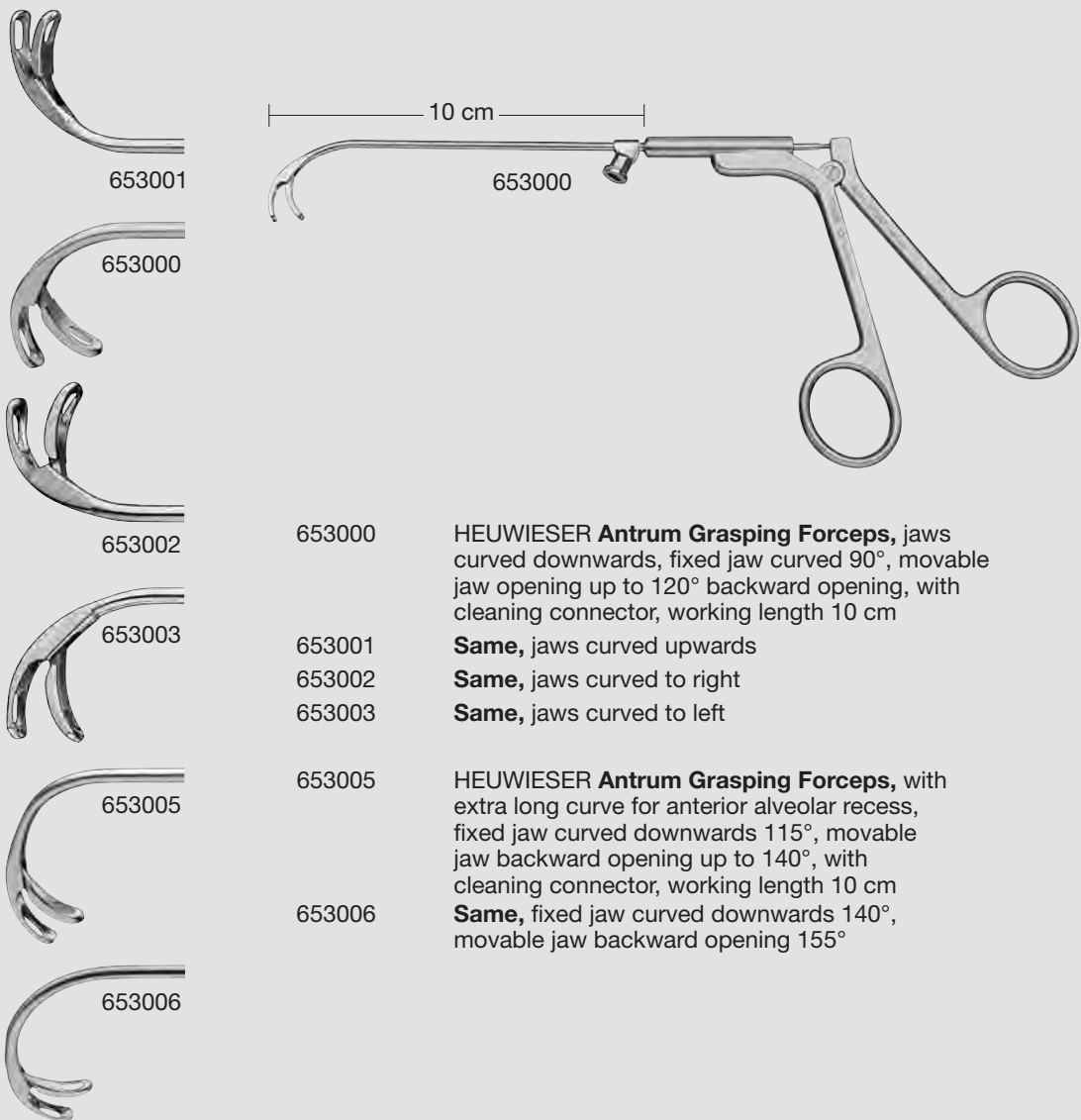


- 628001 **Sickle Knife**, pointed, length 19 cm
- 628002 **Same**, round, double-cutting
- 628501 **HALLE Antrum Curette**, malleable, size 1, length 21 cm
- 628502 **Same**, size 2
- 628503 **Same**, size 3
- 628601 **Antrum Curette**, oval, size 1, length 19 cm
- 628602 **Same**, size 2
- 628603 **Same**,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

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

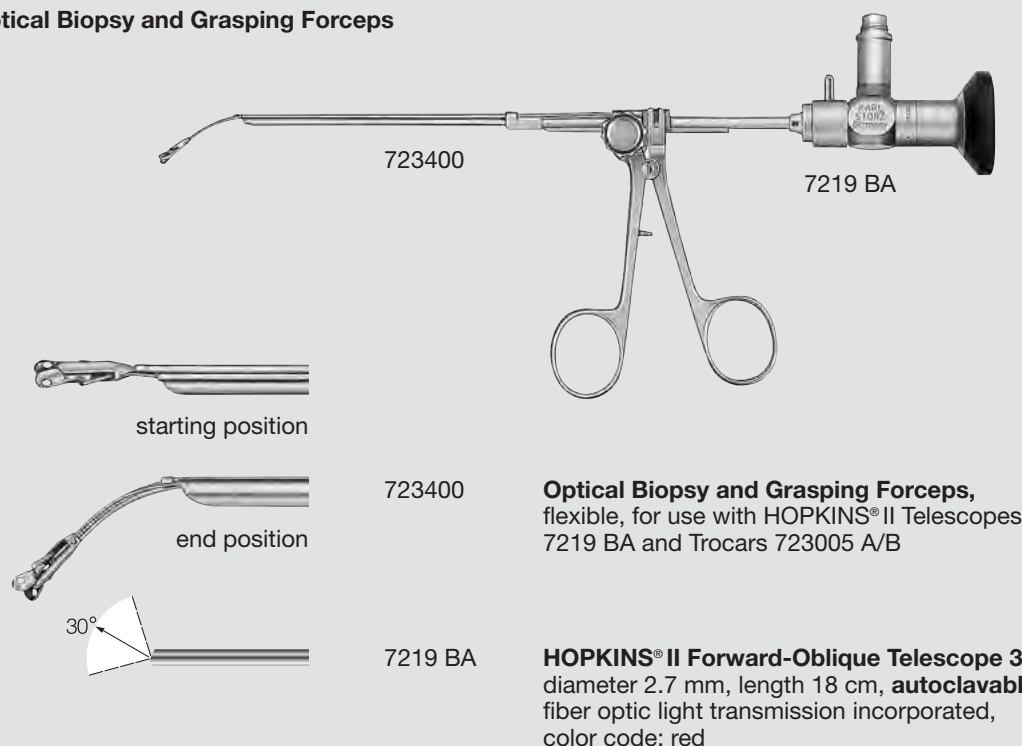


653000	HEUWIESER Antrum Grasping Forceps, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120° backward opening, with cleaning connector, working length 10 cm
653001	Same, jaws curved upwards
653002	Same, jaws curved to right
653003	Same, jaws curved to left
653005	HEUWIESER Antrum 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

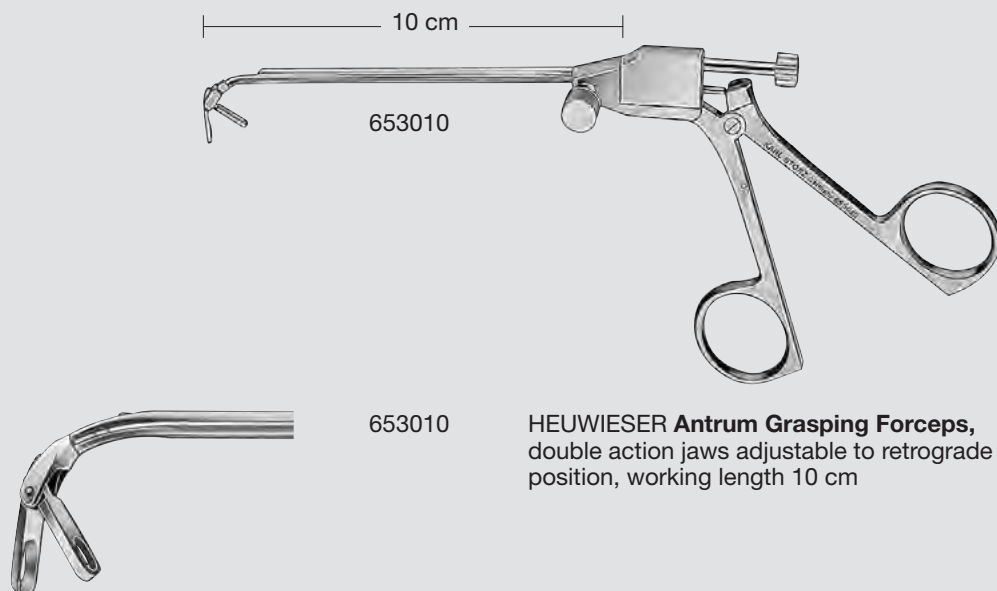
Optical Biopsy and Grasping Forceps



HEUWIESER Antrum Grasping Forceps, double action jaws

Special Features:

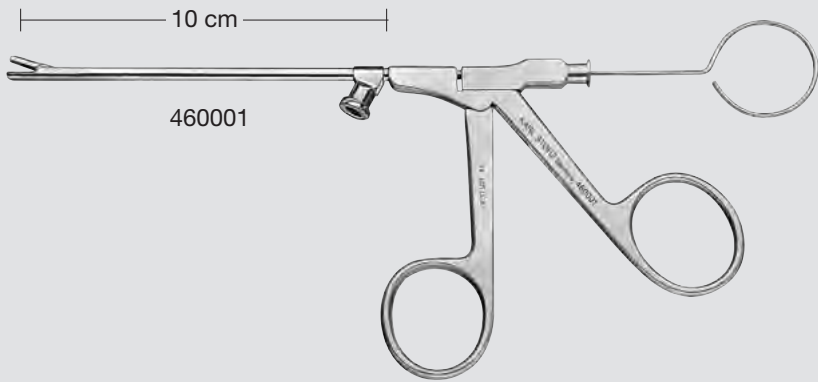
- Enlarged action radius of jaws compared to that of HEUWIESER standard forceps
- Retrograde position of both jaws adjustable: upper jaw up to 120° angle, inferior jaw up to 180°, opens backwards



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



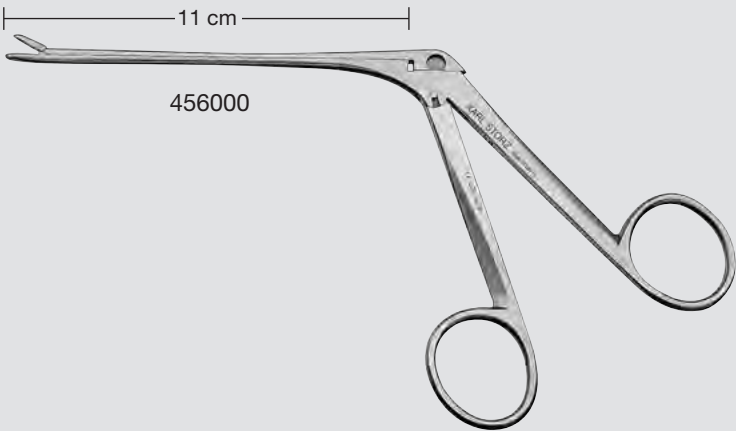
460501

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

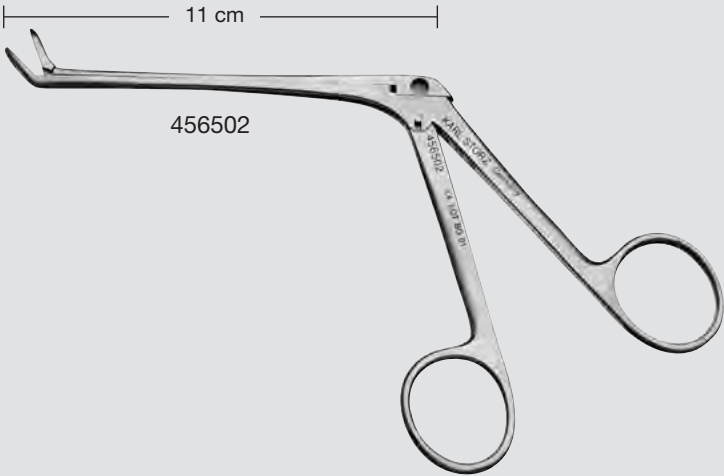


	456000	BLAKESLEY Nasal Forceps , straight, size 0, working length 11 cm
	456001	Same , size 1
	456001 L	Same , size 1, working length 15 cm
	456002	Same , size 2
	456003	Same , size 3
	456004	Same , size 4

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

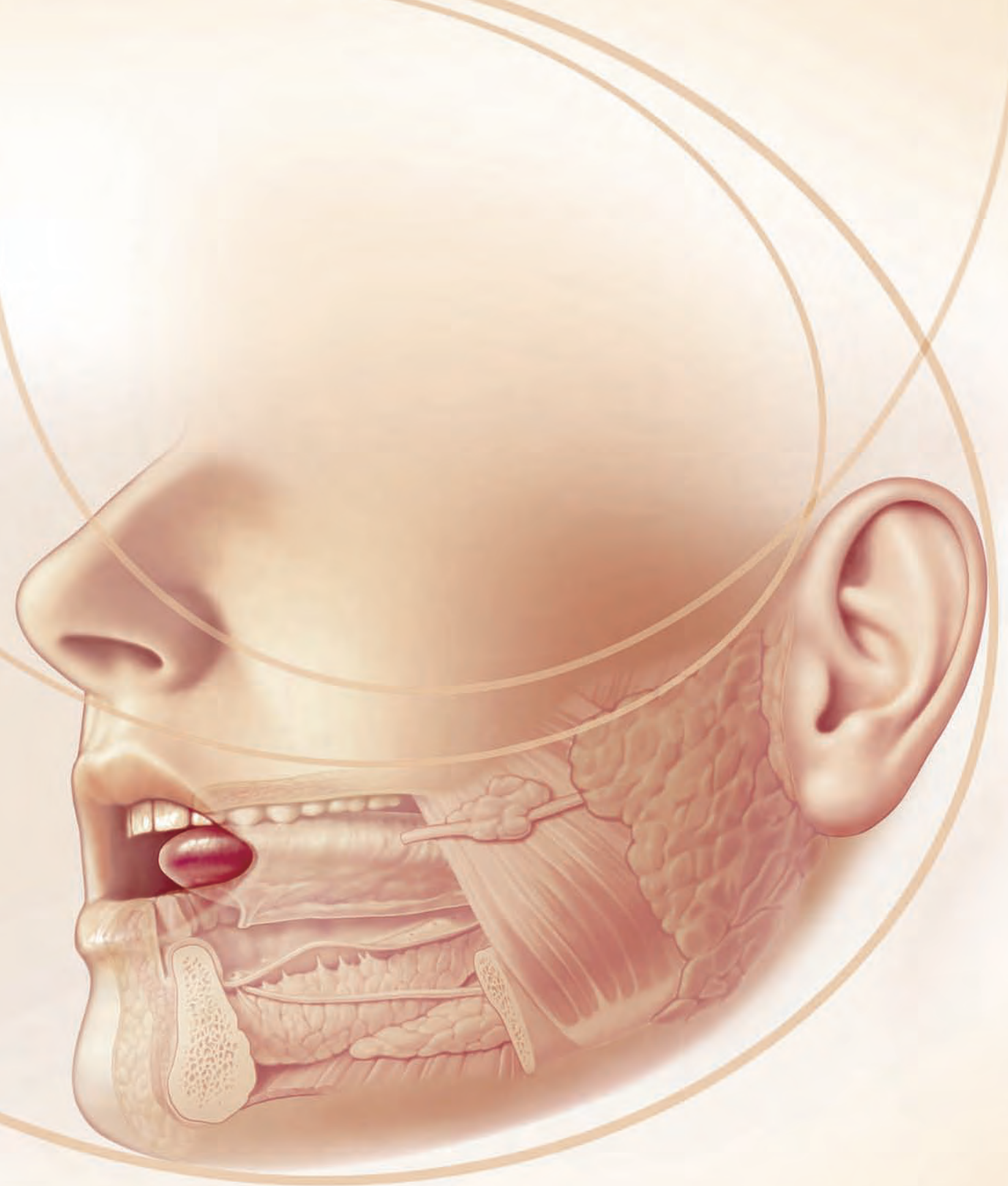
635017 **Same**, width 17 mm

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

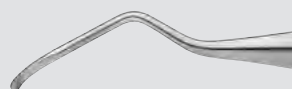
LANGER Universal Curette,
double-ended, Fig. 1/2

58958 B

Same, Fig. 3/4

58958 C

Same, Fig. 5/6



58958 D

Universal Curette,
double-ended, Fig. M 23



58958 E

Sickle Scaler, double-ended,
hygienist Fig. 6/7



58961 C

Sickle Scaler, double-ended,
length 17 cm



58958 F

LANGER Universal Curette,
double-ended, Fig. 1/2, titanium
inserts

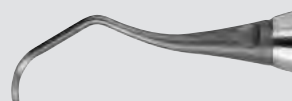


58958 G

Same, Fig. 3/4

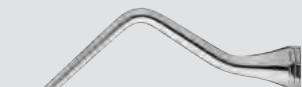
58958 H

Same, Fig. 5/6



58958 I

COLUMBIA Universal Curette,
double-ended, Fig. 4R/4L,
titanium inserts



58964

LUCAS Bone Curette, double-
ended, length 17.5 cm



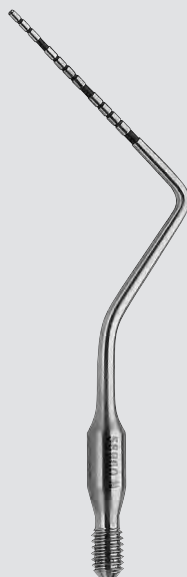
58964 A

LUCAS Curette, Fig. 2,
double-ended, width 3 mm





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



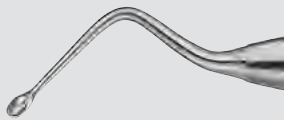
58958 R

HEIDEMANN Spatula, double-
ended, length 18.5 cm

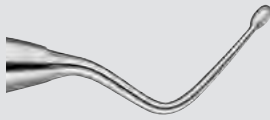




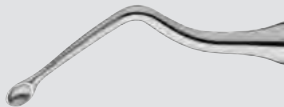
58962 R



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

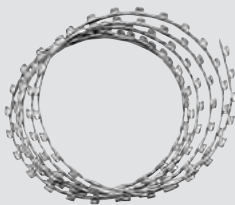


58973 BORMANN **Positioning
Instrument**, double-ended,
3-toothed, straight/curved,
length 20 cm



745718

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



58998

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



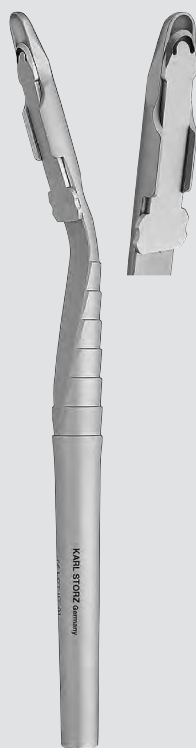
58900 G



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

Components/Spare Parts see chapter 16



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





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

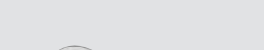
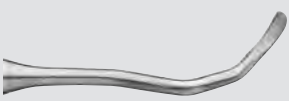


58961 LS

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

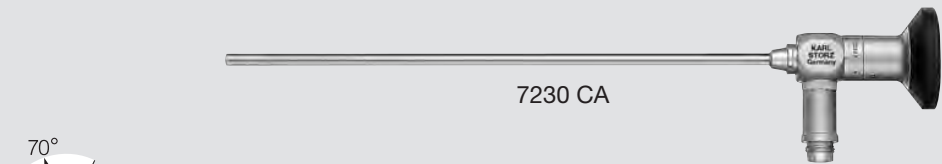




	58129 PA	PRICHARD Raspatory , double-ended, PPR3, straight retractor	
	58129 PB	PRICHARD Raspatory , double-ended, PP3, retractor angled 30°, right	
	58129 PC	Same , left	
	58961 MB	Sinus Lift Elevator , double-ended, sharp/sharp, length 17 cm	
	58961 SB	Sinus Lift Elevator , double-ended, blunt/blunt, 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

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



11301 D4

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 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	–	●	●

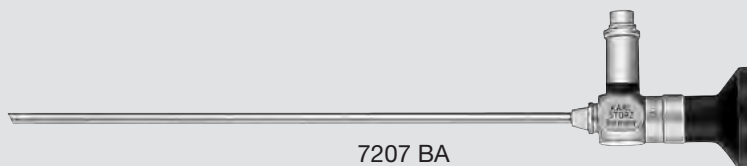
For all rechargeable models

094129

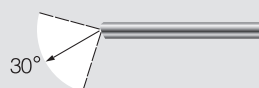
Battery Charger Li-Ion, for charging the rechargeable
battery box, power supply 100 – 240 VAC, 50/60 Hz

094127

Mains Cord, for Battery Charger 094129, length 150 cm

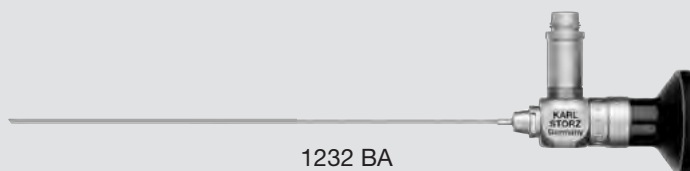


7207 BA

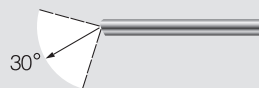


7207 BA

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

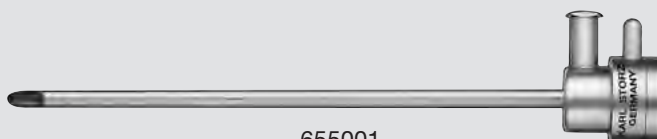


1232 BA



1232 BA

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



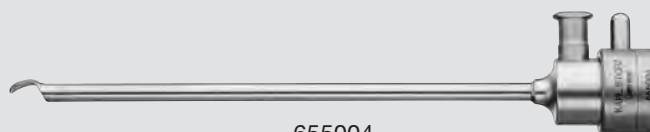
655001

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*

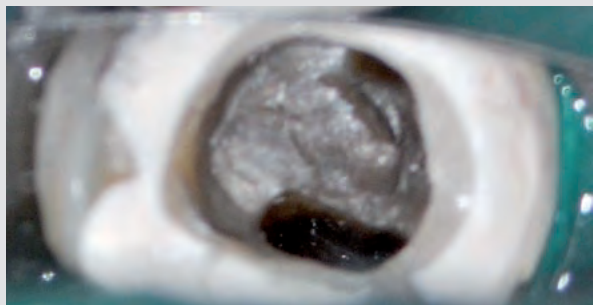


Fig. 1: Microscopic visualization of the access cavity at tooth 47 with shared coronal approach to the mesial root canals

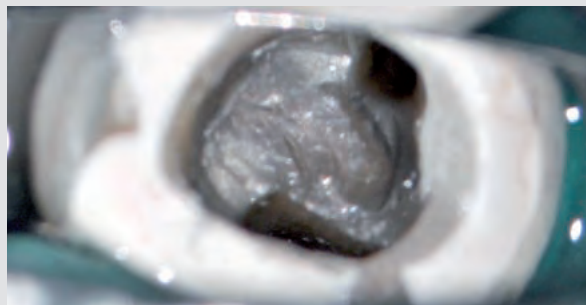


Fig. 2: Microscopic visualization of the access cavity to tooth 47 with coronal approach to the distal root canal



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

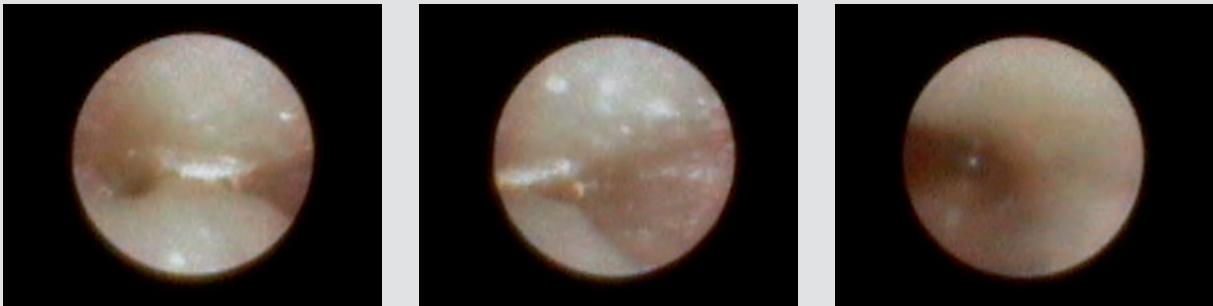


Fig. 4: Endoscopic visualization of the mesio-buccal root canal of tooth of tooth 47: (a) shared coronal portion of the mesial root canals, (b) middle portion, (c) apical portion with apical foramen

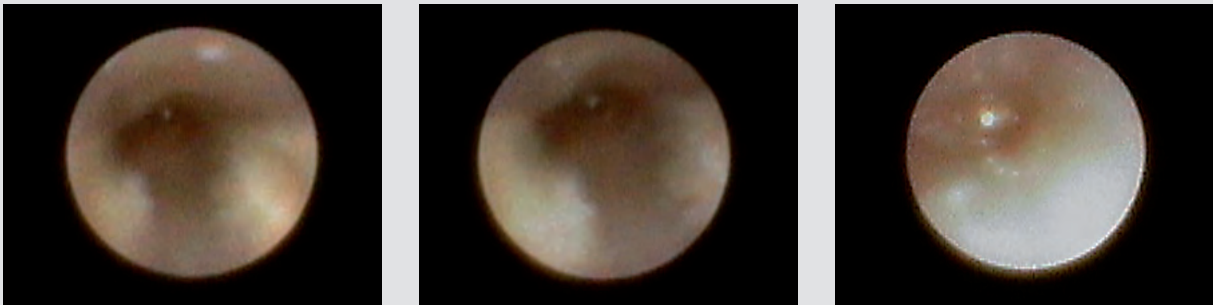


Fig. 5: Endoscopic visualization of the distal root canal of tooth 47: (a) coronal portion of the mesial root canals, (b) middle portion, (c) apical portion with apical foramen



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

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.

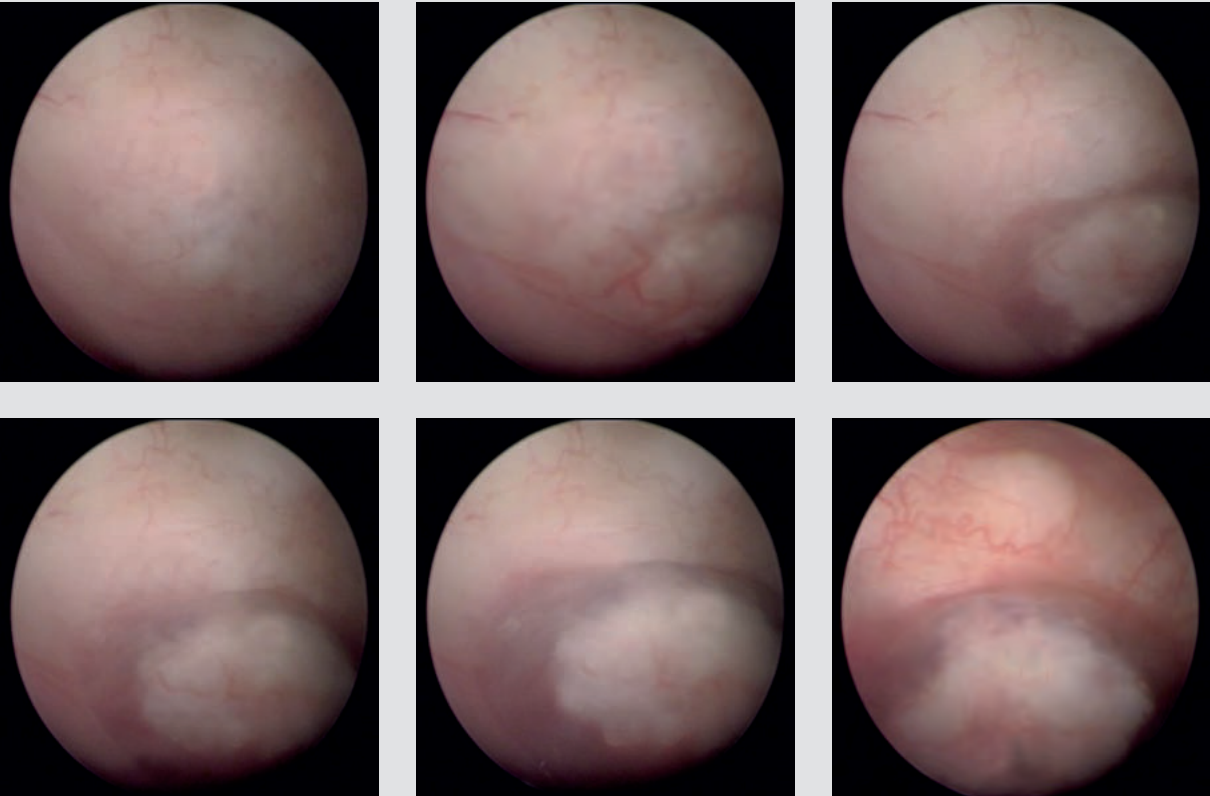
To ensure adequate primary stability of implants, the bone in the alveolar ridge should be at least 5 mm in width and 6 mm in height. If bone height/width is insufficient, primary augmentation and a two-staged surgical technique is preferred.

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.

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



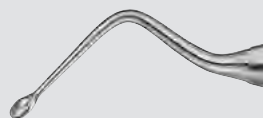
58944 O **Chisel**, unilateral grinding, width 4.5 mm, working length 2.5 cm, total length 18 cm



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

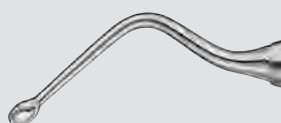
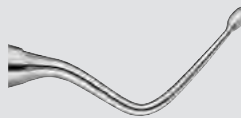


58962 R



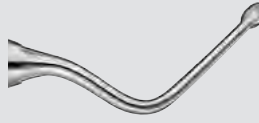
58962 R

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



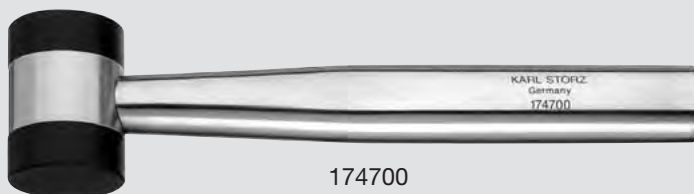
58963 R

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

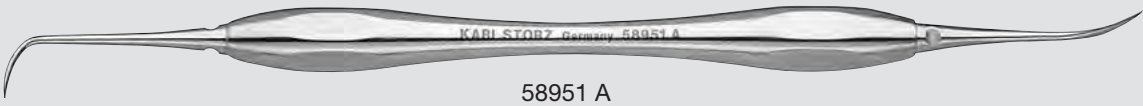
723005 B

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 ^{NEW}



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

Instrument Set for the External Sinus Lift ^{NEW}



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

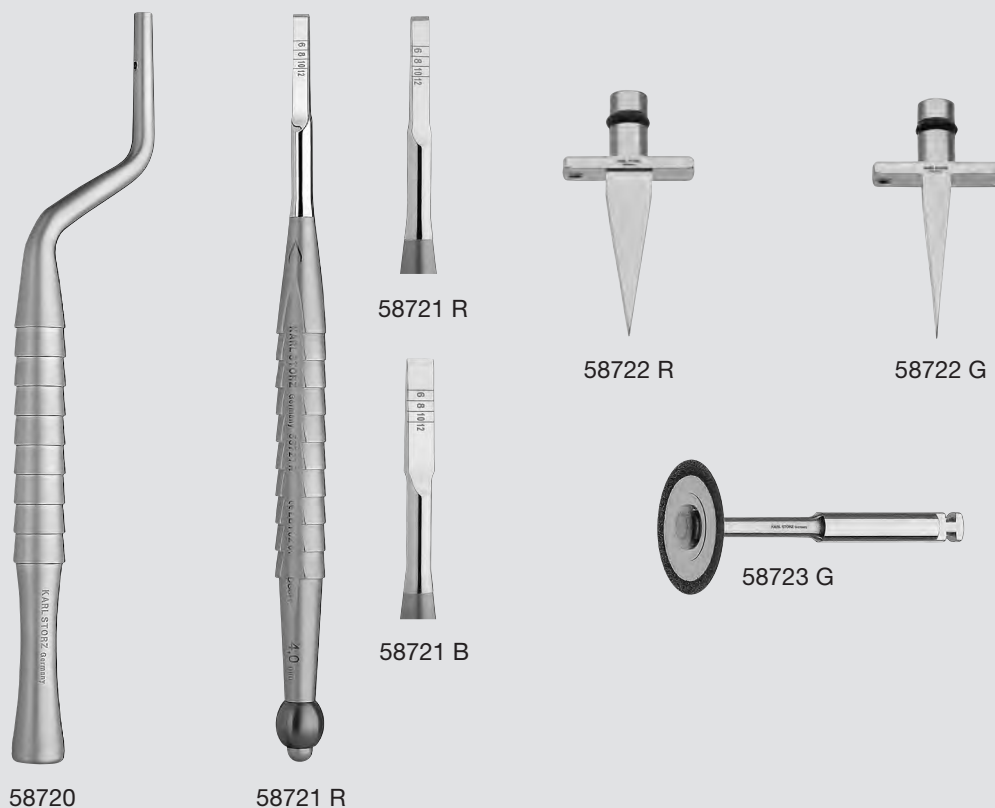
58952 G **Suction Tube**, curved, with titanium tips, slotted, diameter 3 mm, length 18 cm

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

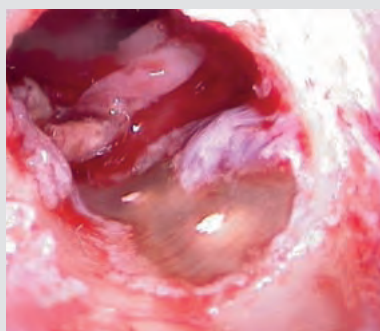


Fig. 2: Compact root filling of both canals with uncompleted palatine root resection at tooth 24 with granulation tissue



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

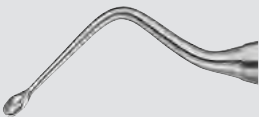


58960 ZR

Dental Probe, fine, flexible, length 15.5 cm

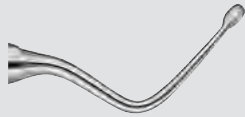


58962 R

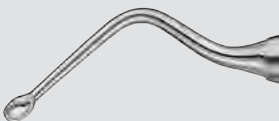


58962 R

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

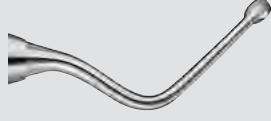


58963 R



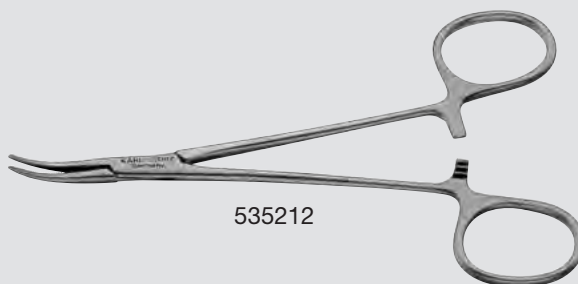
58963 R

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



Instruments for Root-End Resection

Recommended Set by Dr. SCHLEIER



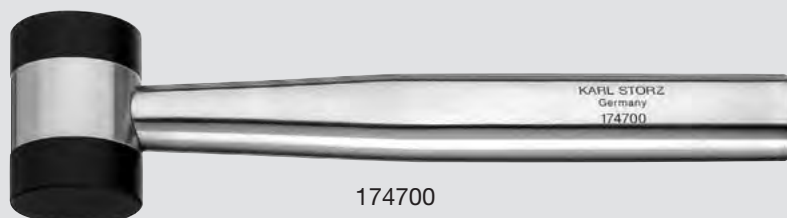
535212

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 ^{NEW}

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:

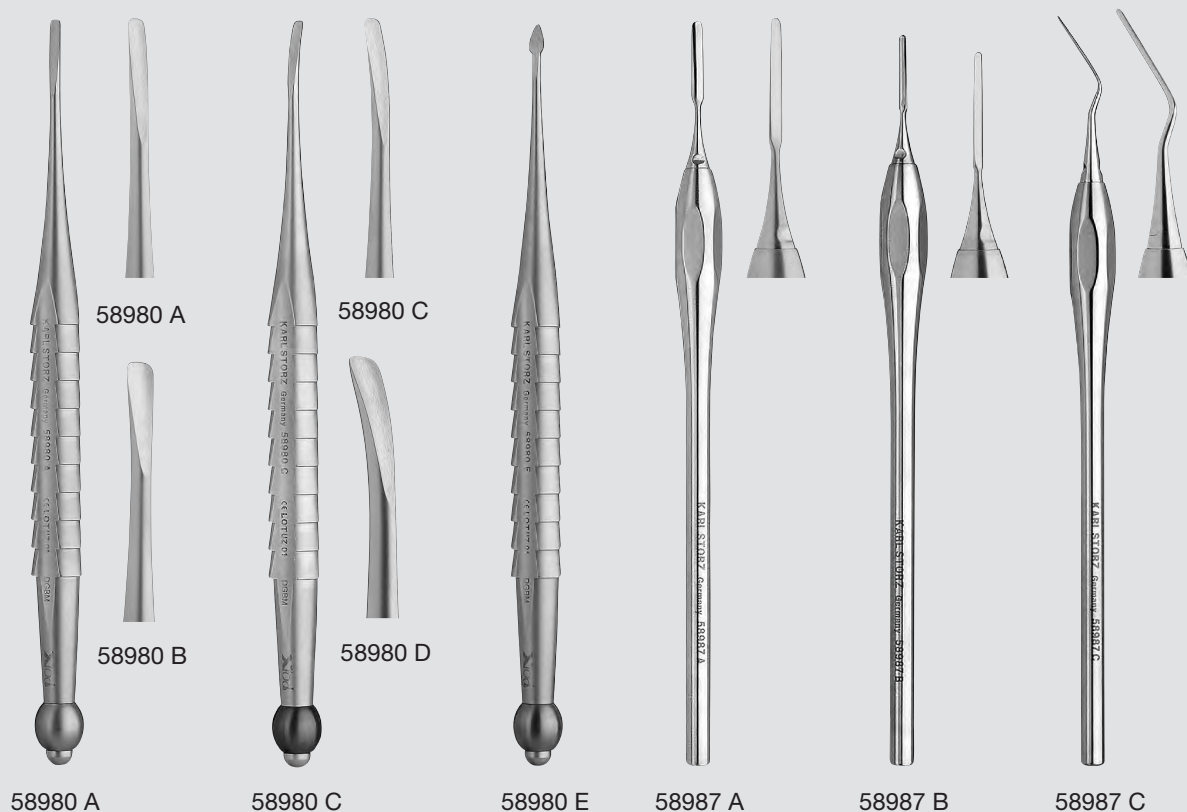
- Surgical access to maxillary “LE FORT” osteomies as well as other maxillary approaches to tumors
- Surgical access for chin correction, separately or in the context of orthognathic procedures
- Flap retraction in facelifts
- Any oral access for lip or jaw surgery
- Any procedure requiring extensive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



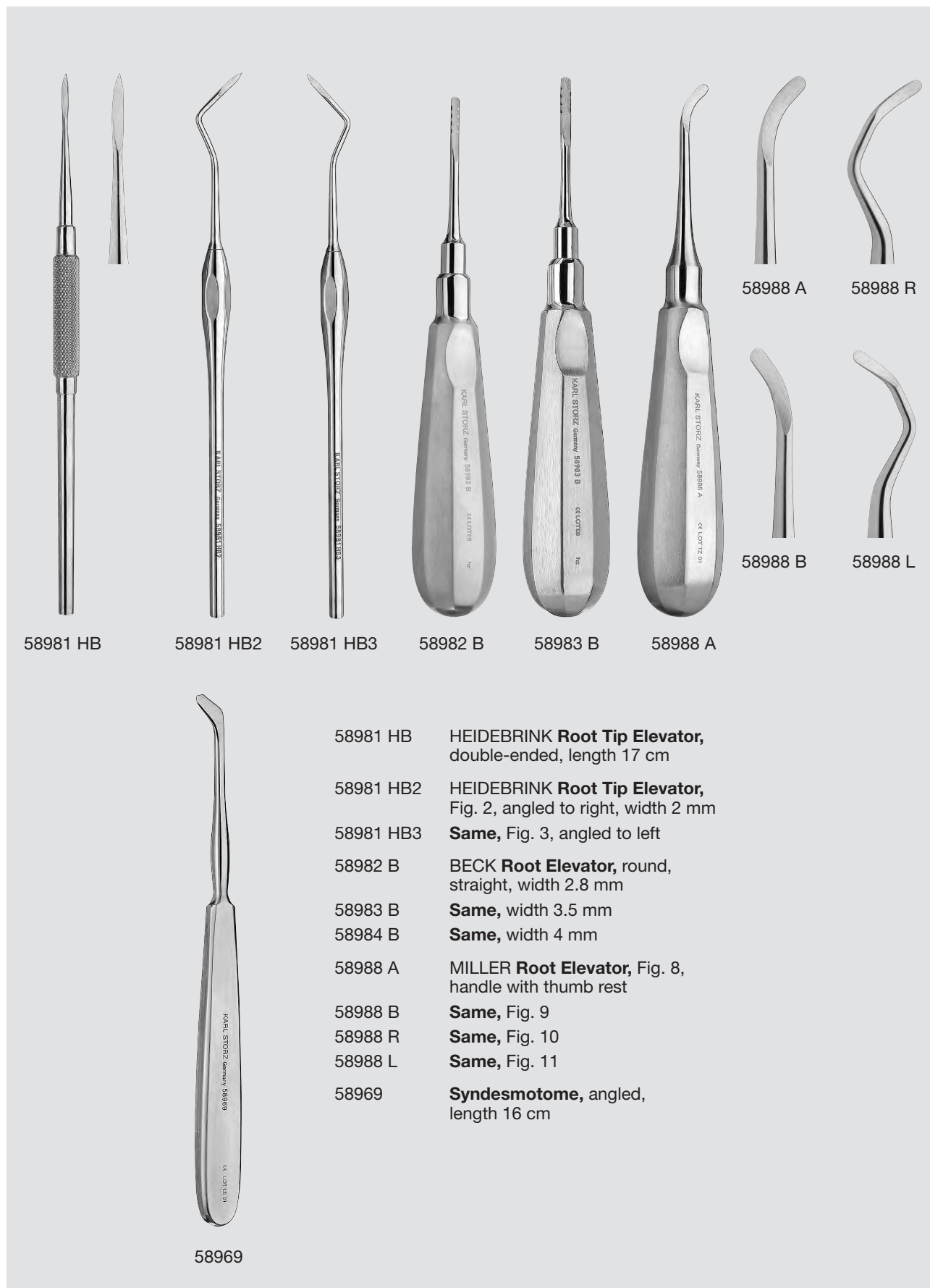
50205 EK

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

Luxation Tools, Atraumatic Tooth Extraction ^{NEW}



- 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	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



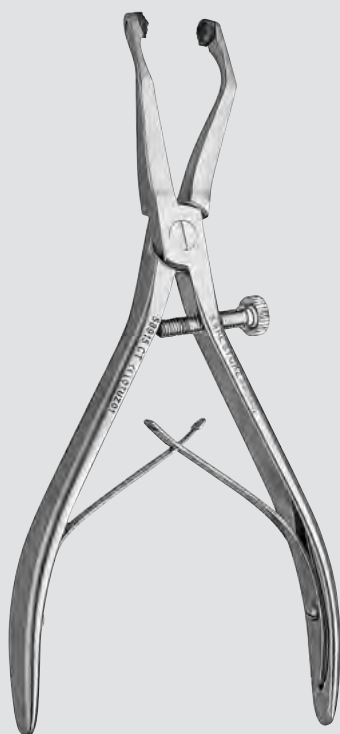
58915 OW



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



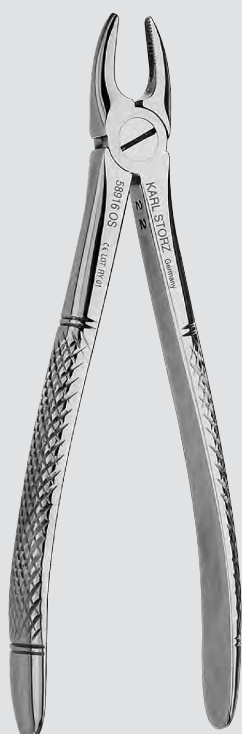
58917 EK

58918 E

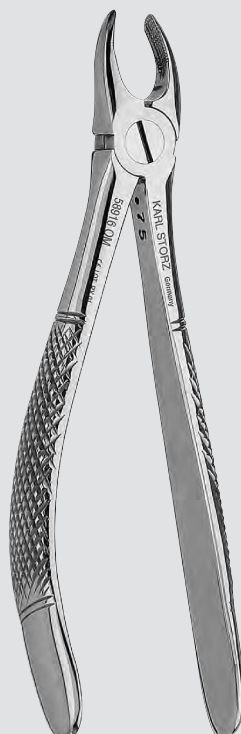
58920 WE

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



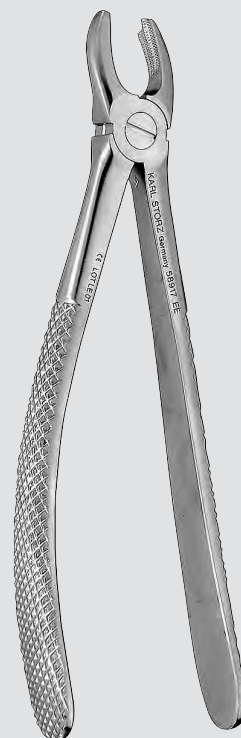
58913 E



58916 EE



58916 EK



58917 EE

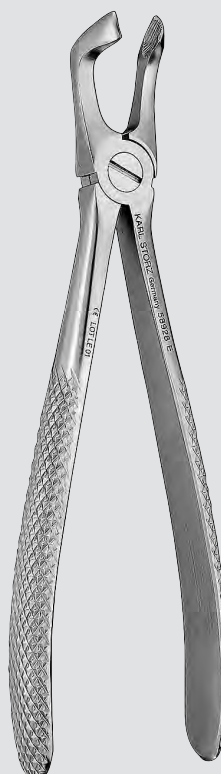
- 58913 E **Extracting Forceps**, Fig. 7, English pattern, upper jaw, for bicuspid teeth
- 58916 EE **Extracting Forceps**, Fig. 18, English pattern, upper jaw, for molars left
- 58916 EK **Extracting Forceps**, for children, Fig. 39L, English pattern, upper jaw, for molars left
- 58917 EE **Extracting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



58923 E



58927 E



58928 E



58929 E



58919 E

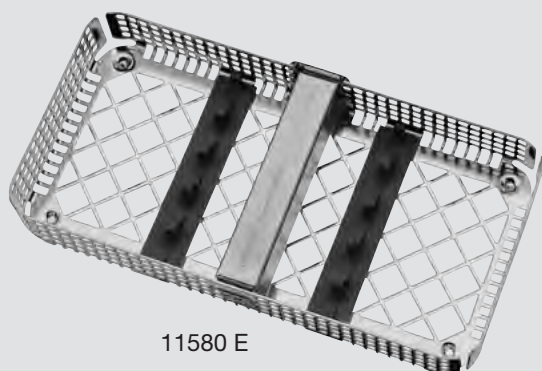


58928 F

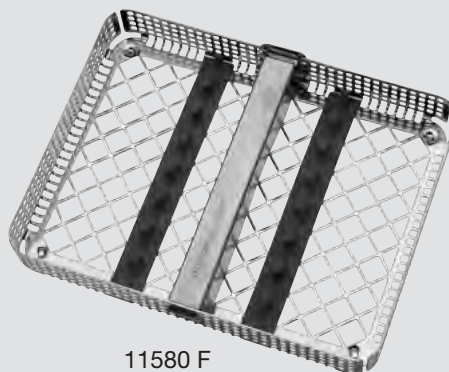
- 58923 E **Extracting Forceps**, Fig. 13, English pattern, upper jaw, for premolars
- 58927 E **Extracting Forceps**, Fig. 73, English pattern, lower jaw, for molars
- 58928 E **Extracting Forceps**, Fig. 79 A, English pattern, lower jaw, for third molars
- 58929 E **Extracting Forceps**, Fig. 86 C,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

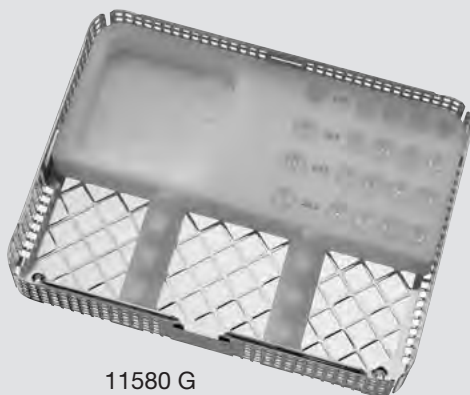
Metal Trays



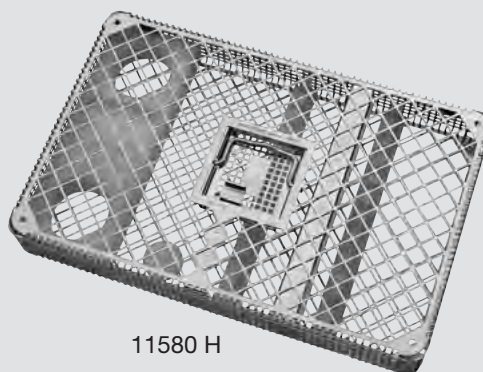
11580 E



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



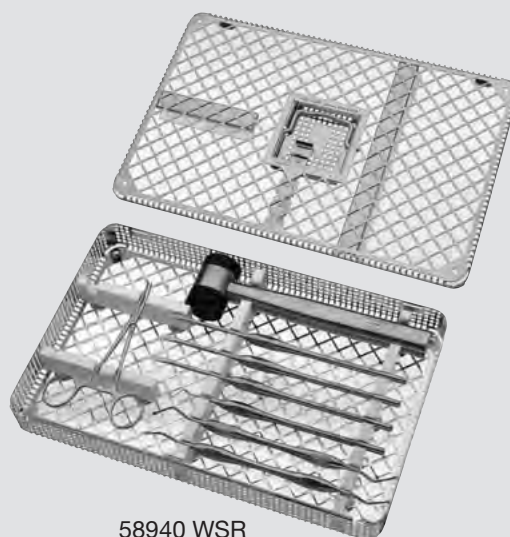
11580 I



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

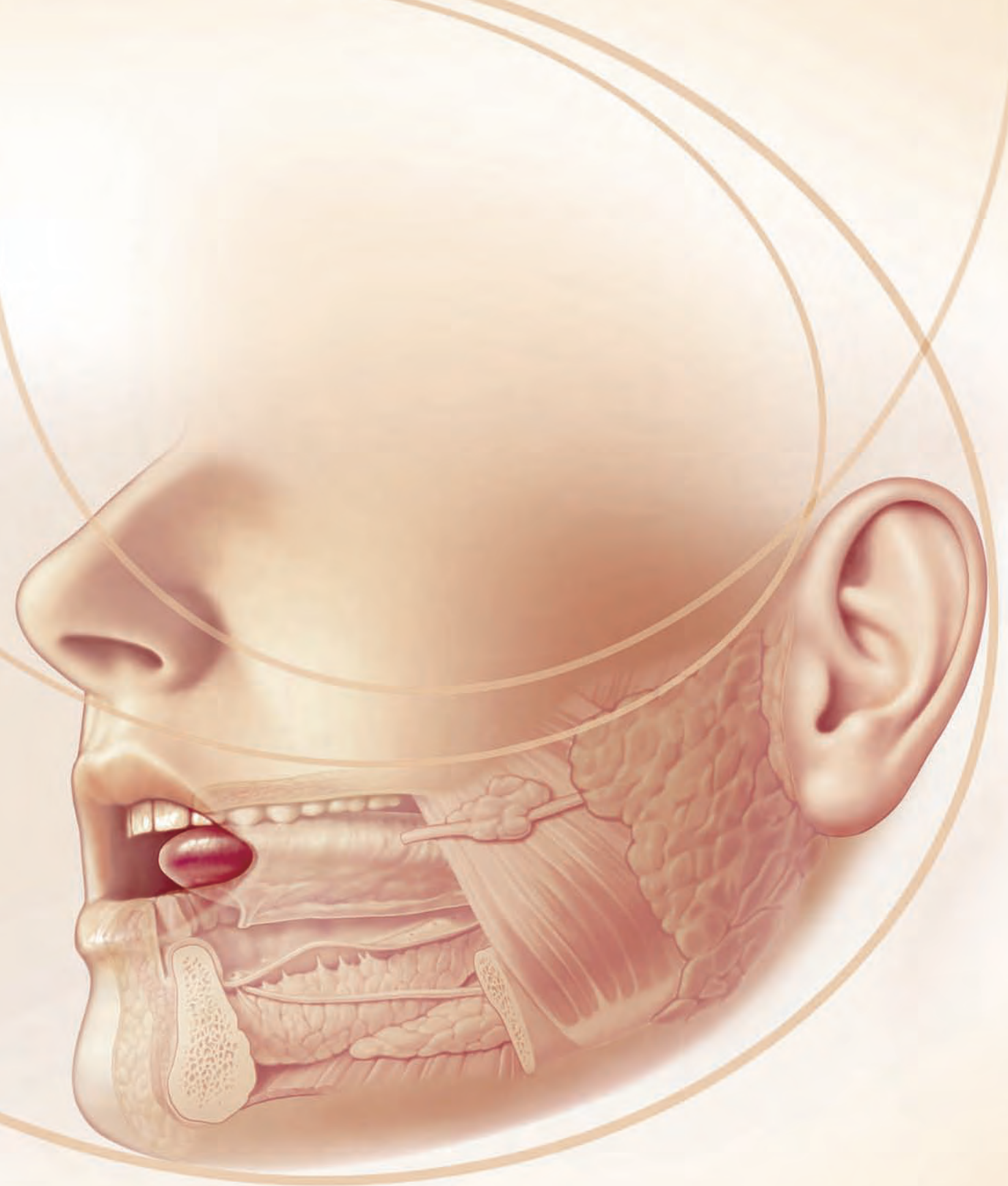
58940 EIS

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

58940 WSR

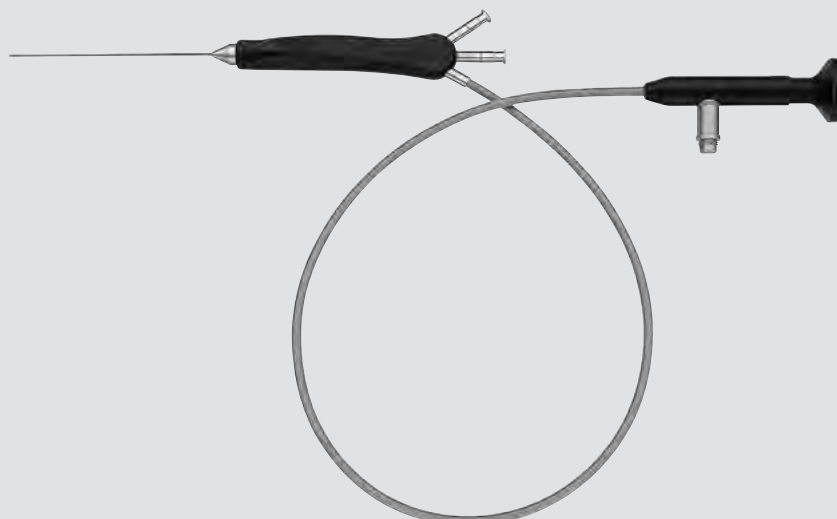
Metal Tray, for the sterilization and
storage of the RTR set

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

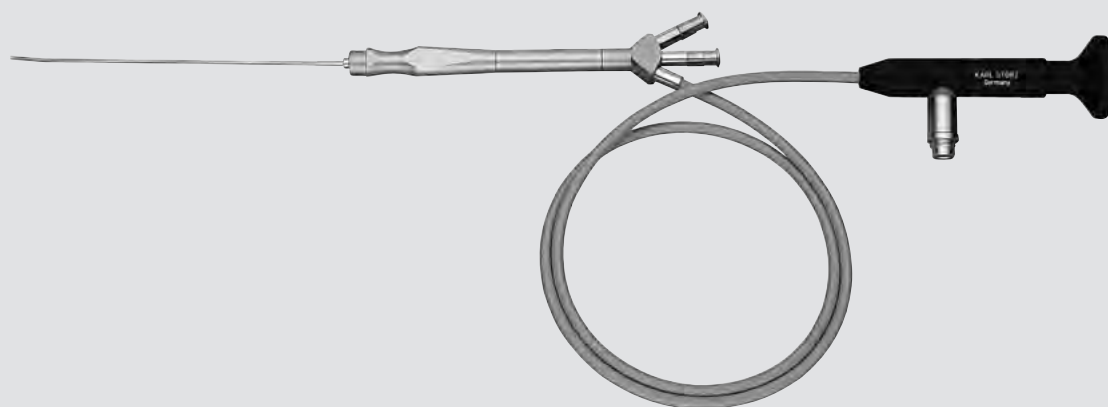
- 11572 A **Miniature Straight Forward Telescope 0°**, diameter 0.8 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated
- 11573 A **Miniature Straight Forward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

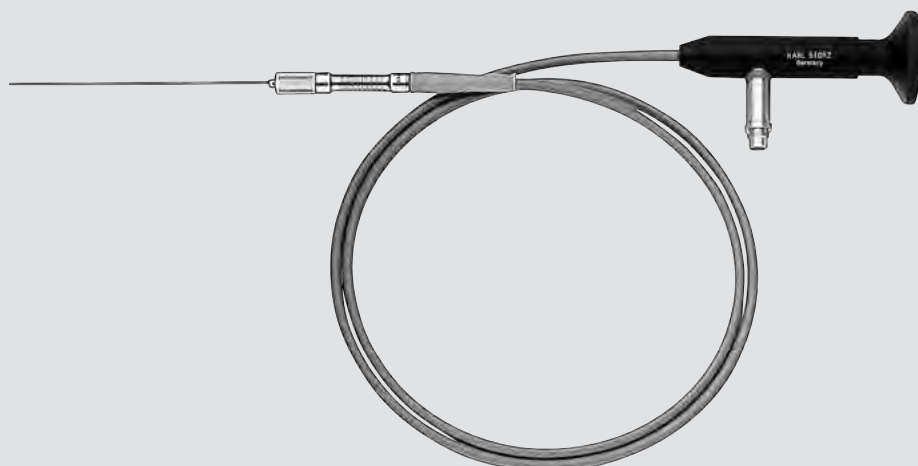
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Foreign Body Forceps 11583 TJ
- Biopsy Forceps 11583 ZJ
- Laser Probe
- Balloon Catheter 11583 BP

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

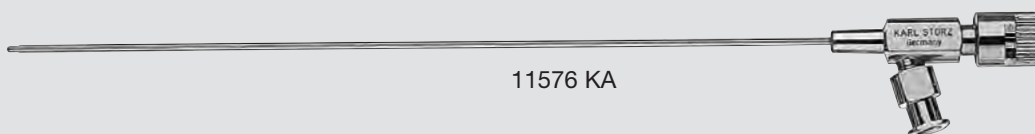


11576 A

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

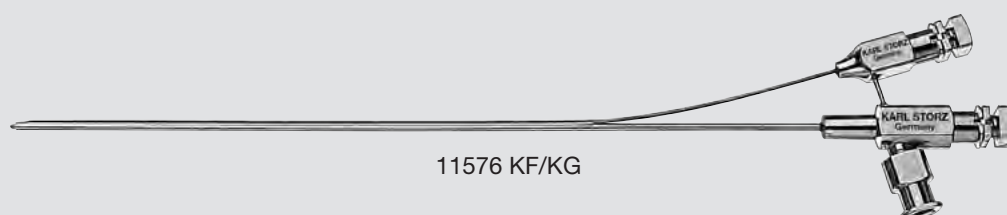
MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

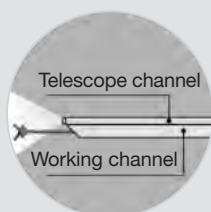
Miniature Endoscopes for Children and Adolescents

MARCHAL Modular System

Operating Sheaths



11576 KF/KG

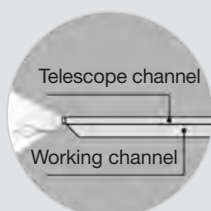


11576 KF

Operating Sheath, oval, diameter 1.1 and 1.3 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Balloon Catheter 11577 BP
- 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:

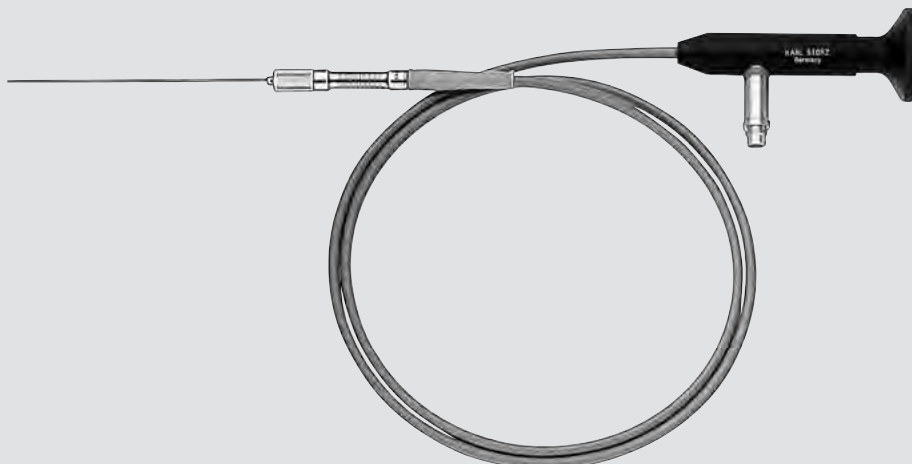
- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

Instruments see pages 128-132

MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

Miniature Endoscopes for Adults MARCHAL Modular System

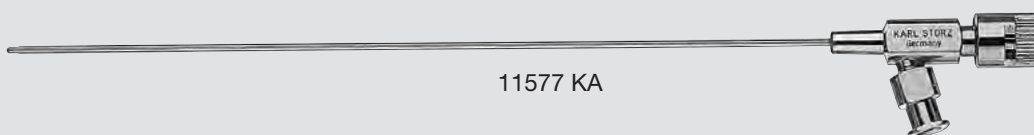


11577 A

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

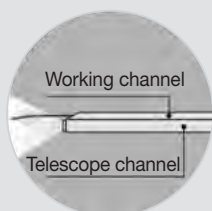
Examination Sheath, diameter 1.3 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11577 A

MARCHAL Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

Miniature Endoscopes for Adults MARCHAL Modular System

Operating Sheaths

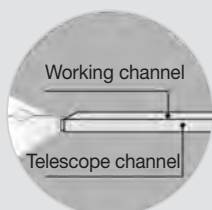


11577 KE

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



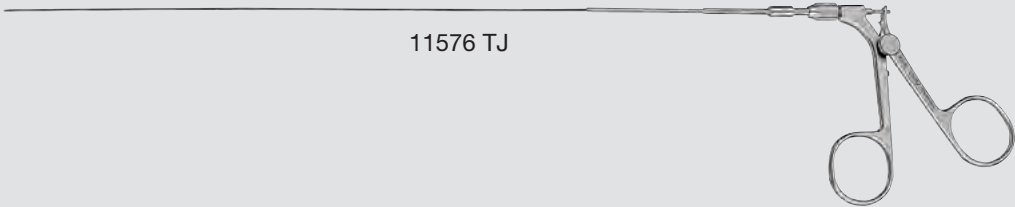
11577 KD

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



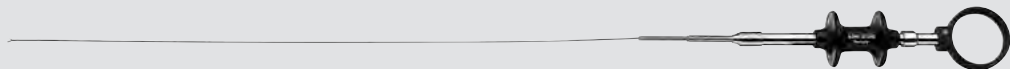
11583 TJ

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

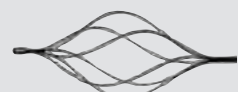
Biopsy Forceps, flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A

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 **Dressing Forceps**, angled,
length 15 cm



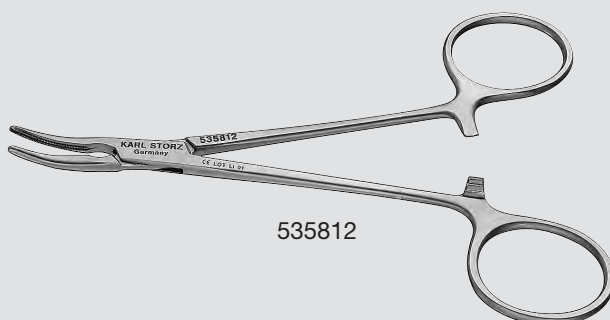
745716 **Tissue Forceps**, angled,
with 1 x 2 teeth, length 15 cm



745717 **Angled Scissors for Salivary Gland**,
with bulb, length 14 cm

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

Artery Forceps

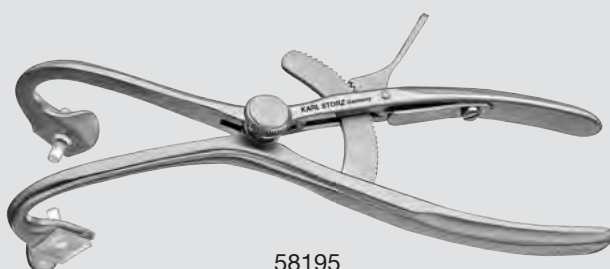


535812

535812

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

Mouth Gags



58195



58194

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

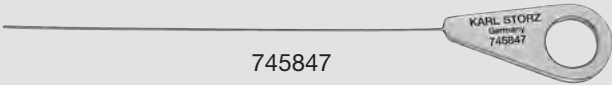


58195

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

Dilators



745900



745910

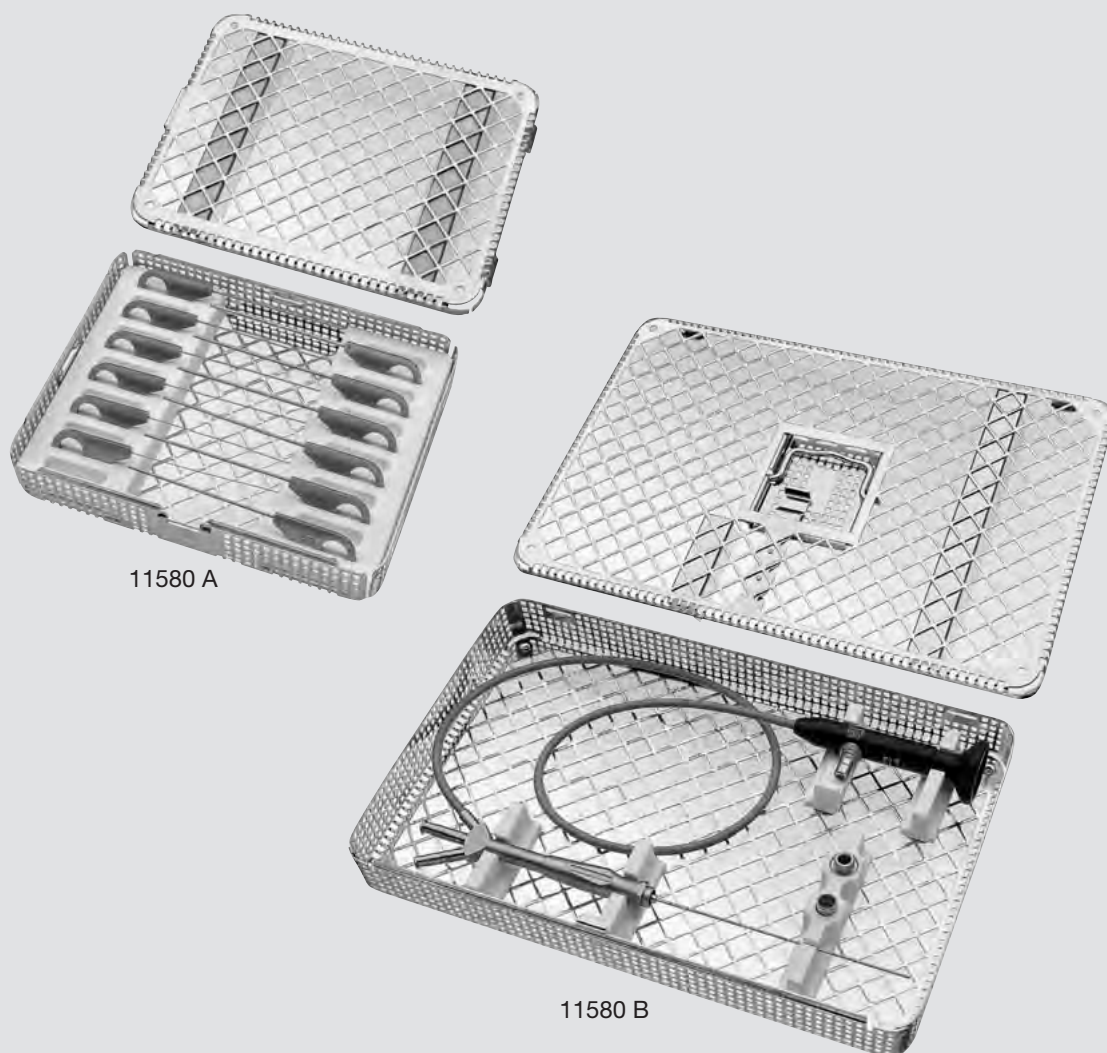


745920

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

Accessories

Metal Trays

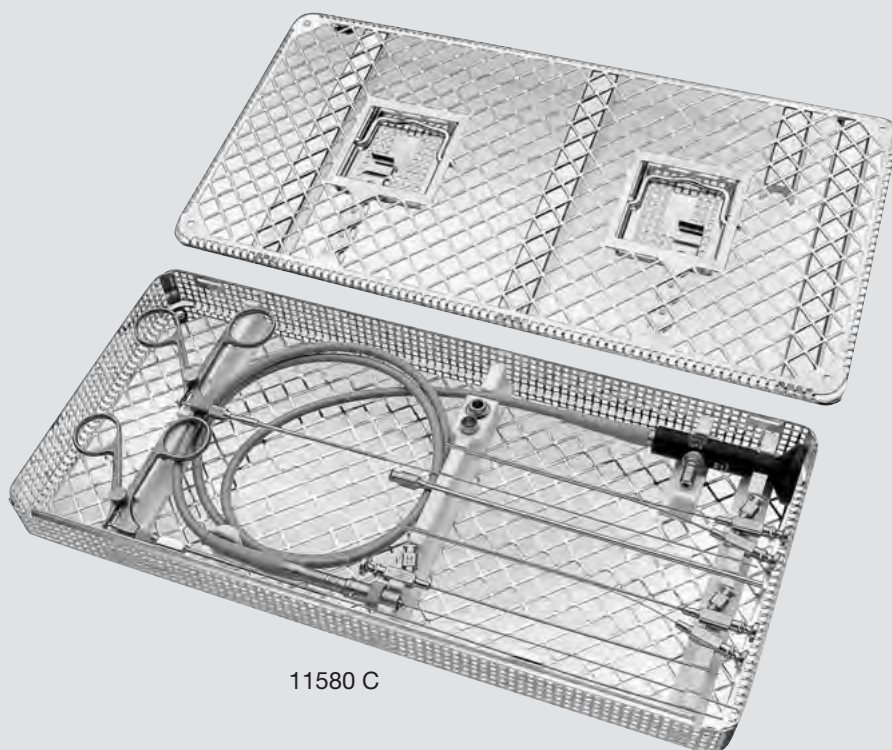


11580 A

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.



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

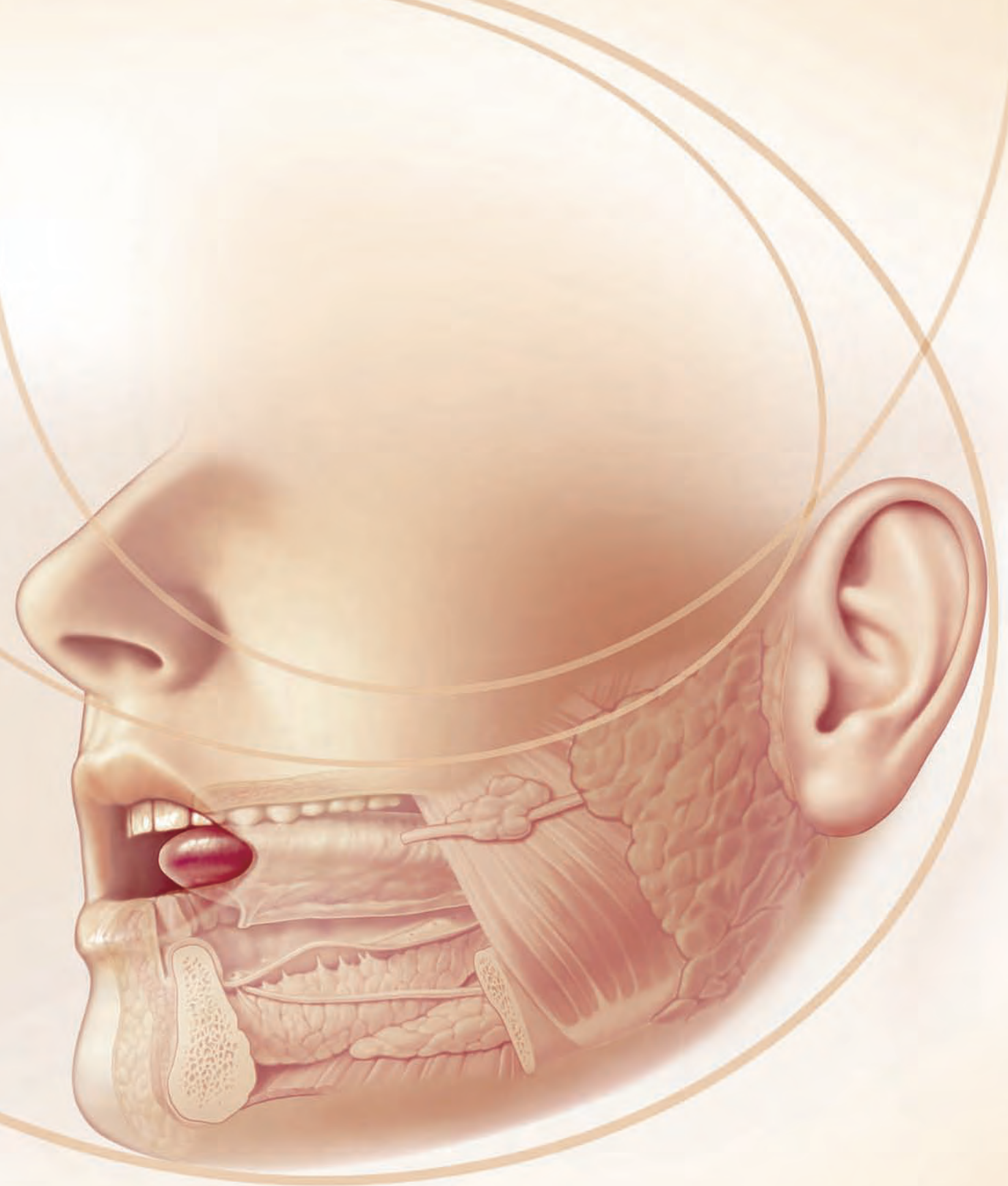
Cleaning

- 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 ^{NEW}

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:

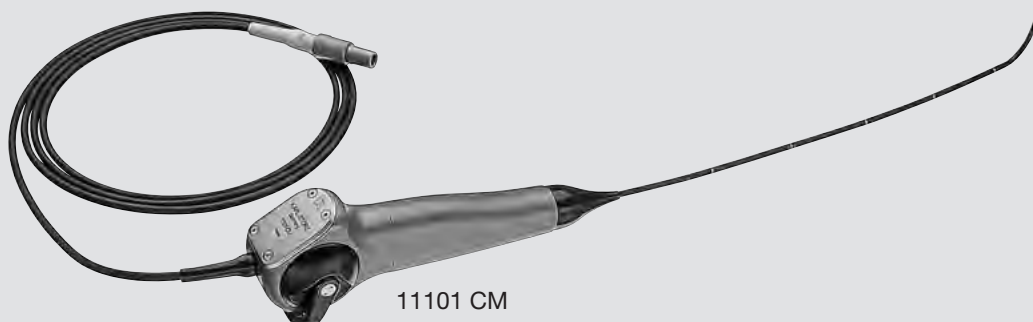
- "All-in-one" solution meets convenience – the lightweight monitor combined with the CMOS video rhino-laryngoscope offer quick installation and great flexibility
- CMOS chip technology for good image quality
- Optimal field of view for excellent visualization of pathologies
- Large angle of view for 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 × 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 ^{NEW}



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

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	CMOS Video Rhino-Laryngoscope KIT
8402 ZX	Monitor for CMOS endoscopes

Rhino-Fiberscopes

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

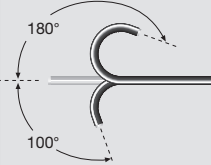
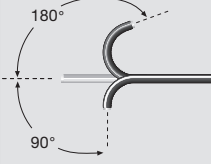
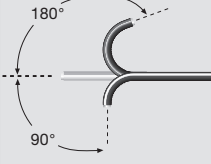
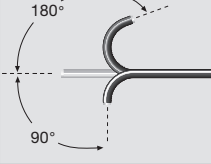
Special Features:

- 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

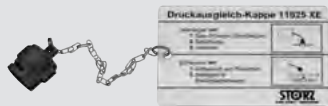


Rhino-Fiberscopes

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

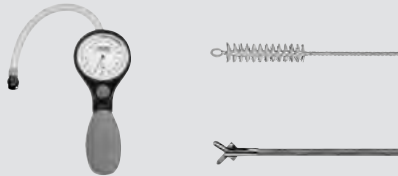
Case

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

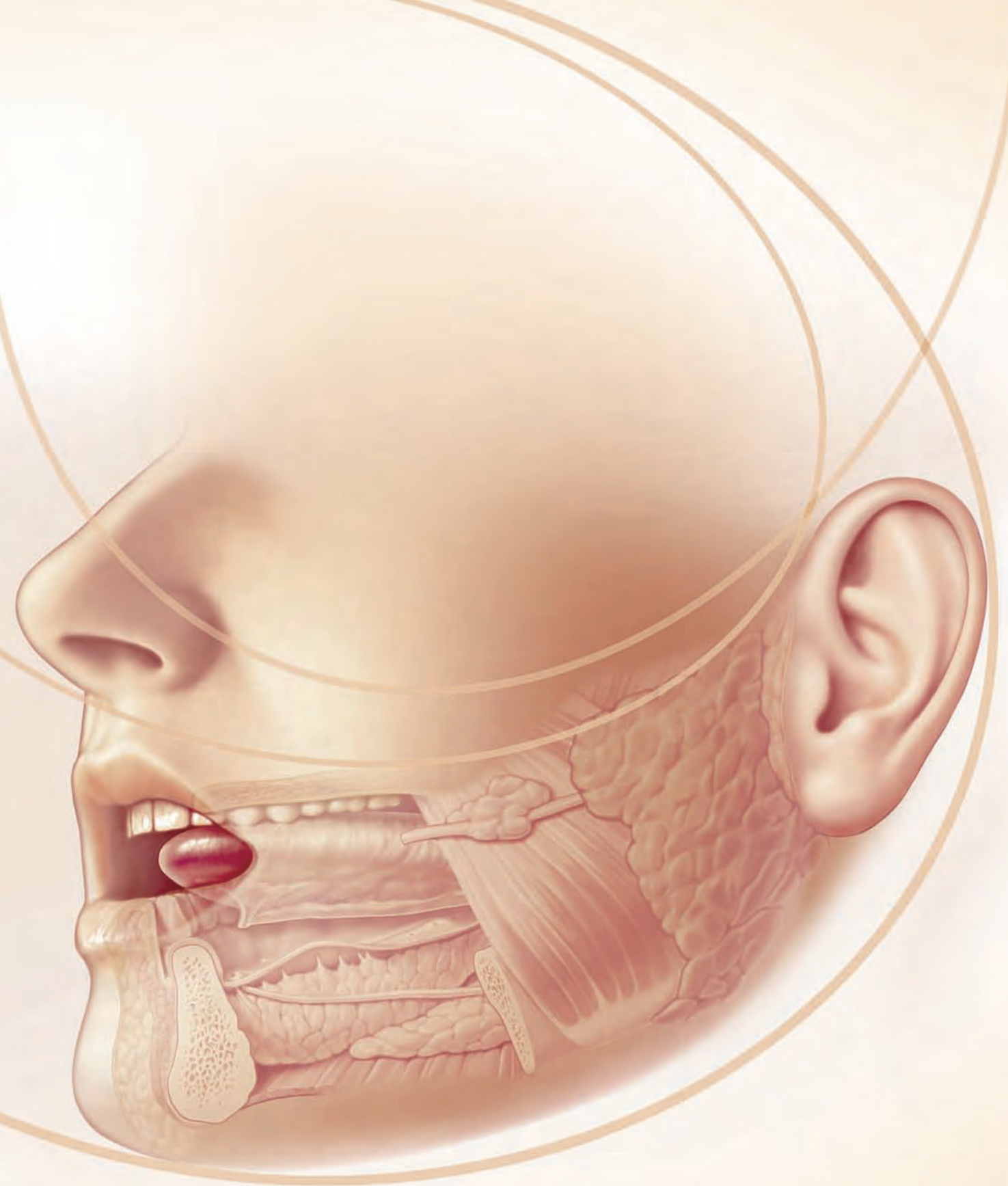
“ULTRA STOP” Antifog Solution, 25 ml, pipette bottle

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

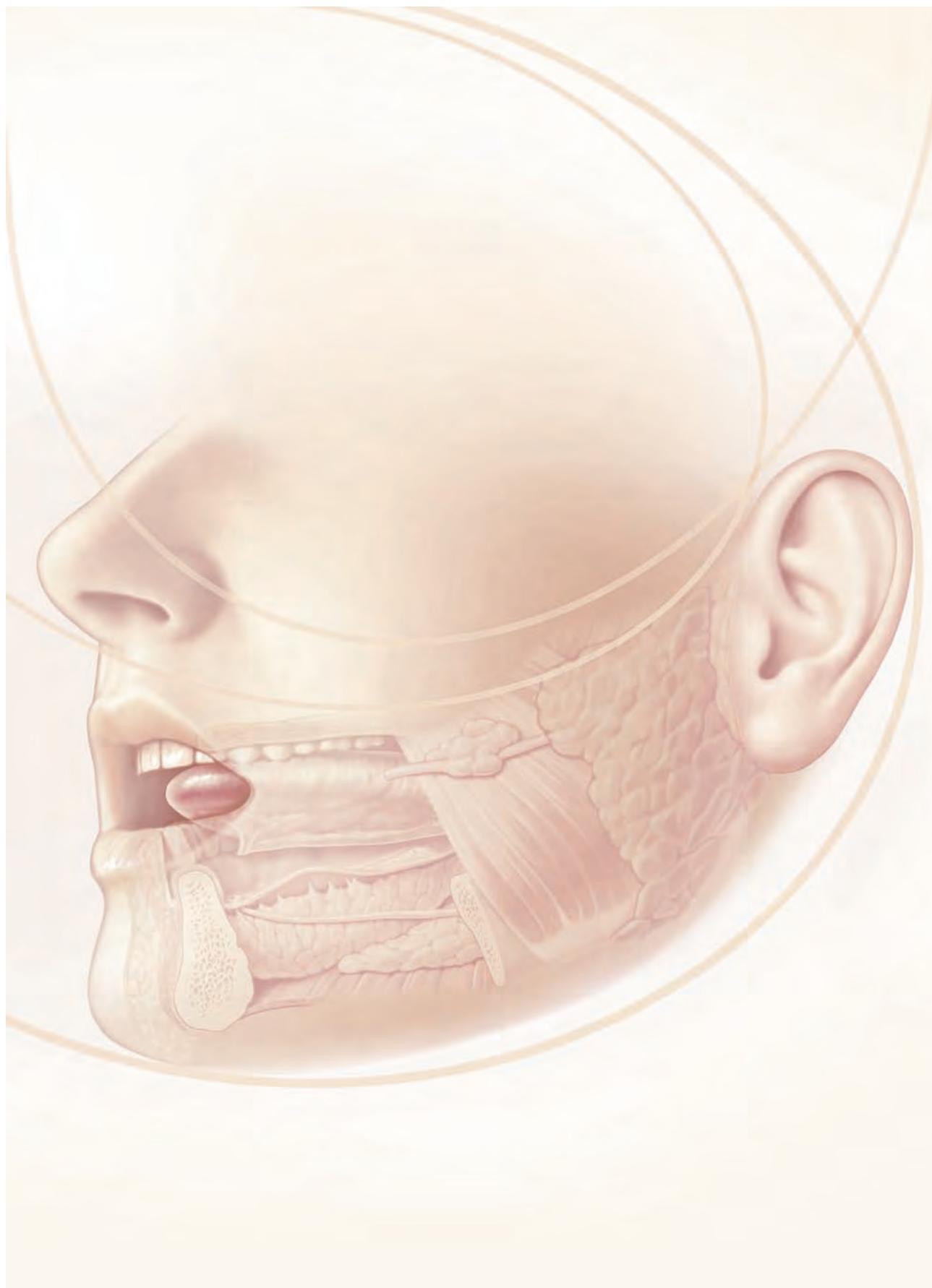
RETRACTORS

MOUTH GAGS

OSTEOTOMES, CHISELS, MALLETS

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

HOSPITAL SUPPLIES



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

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



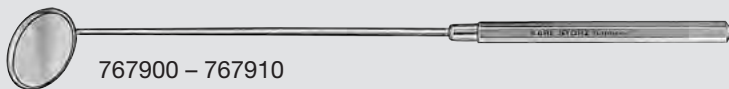
size 9
diameter 28 mm



size 10
diameter 30 mm

Special Features:

- Autoclavable
- Resistant
- Durable



767900 – 767910

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

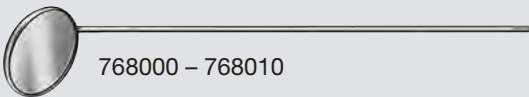
767911 **Mouth Mirrors**, with **RHODIUM** coating, **autoclavable**, with unscrewable hexagonal handle, set of 11 mirrors, nos. 767900 – 767910, sizes 0 – 10

- 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

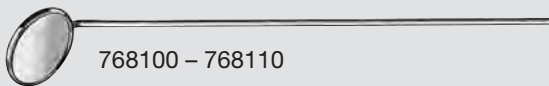
769950 **Handle**, only, hexagonal, length 7.5 cm, for Mouth Mirrors 767900 – 767910, 770000 – 770020



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



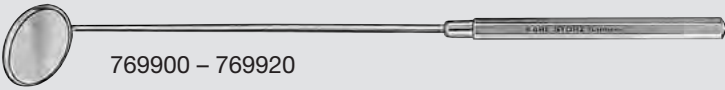
770600

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

To view actual size of mouth mirrors see page 149

Mouth Mirrors

Standard Version



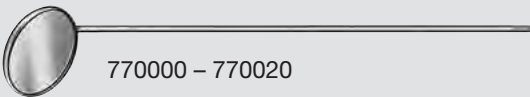
Mouth Mirrors, with unscrewable hexagonal handle, sizes 00 – 10

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

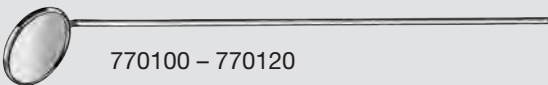


769950 **Handle**, only, hexagonal, length 7.5 cm, for Mouth Mirrors 769900 – 769910, 770000 – 770020



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



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

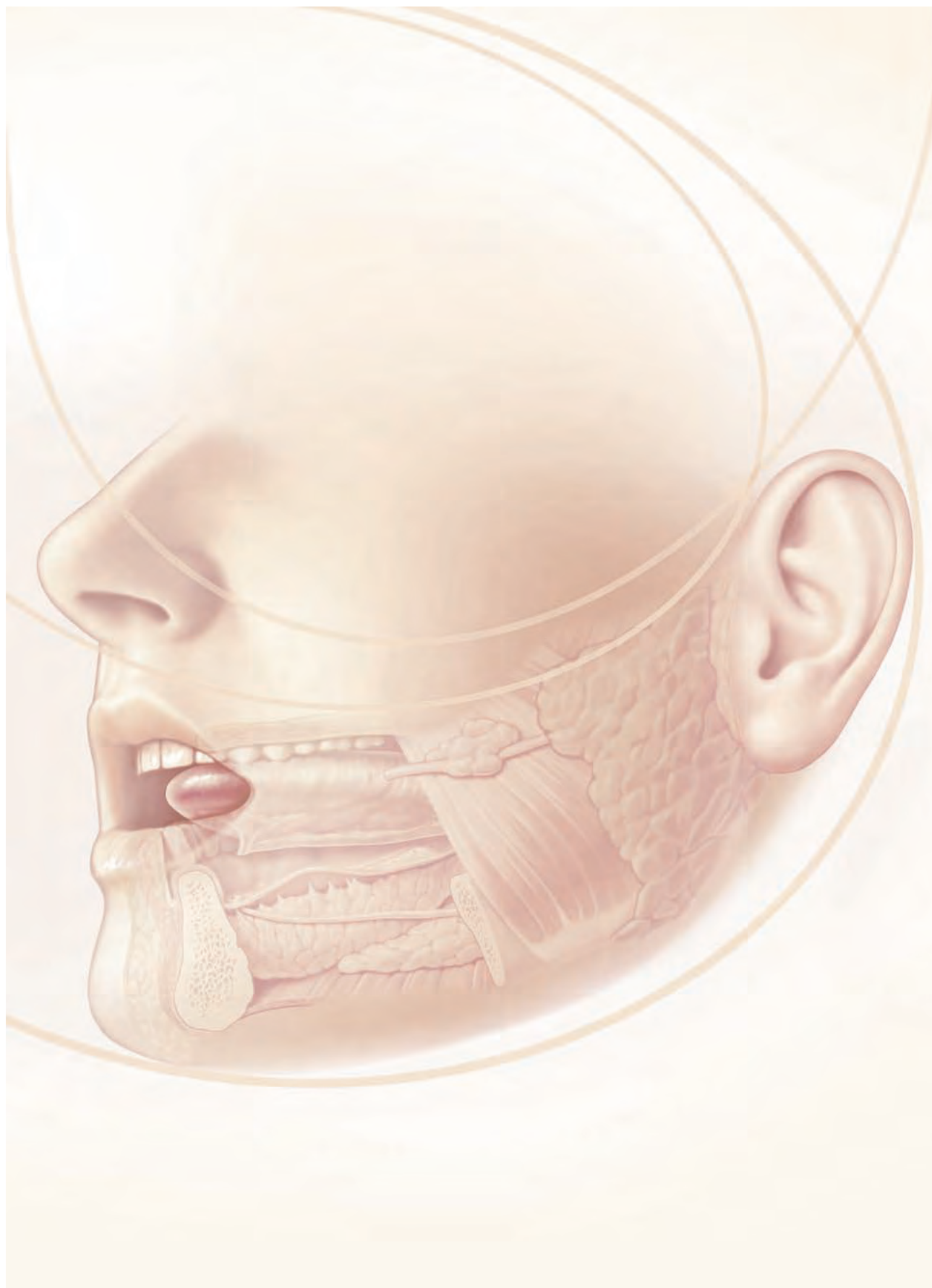
58950 G **Handle for Mouth Mirrors**, length 12.5 cm, for use with 58950 ES

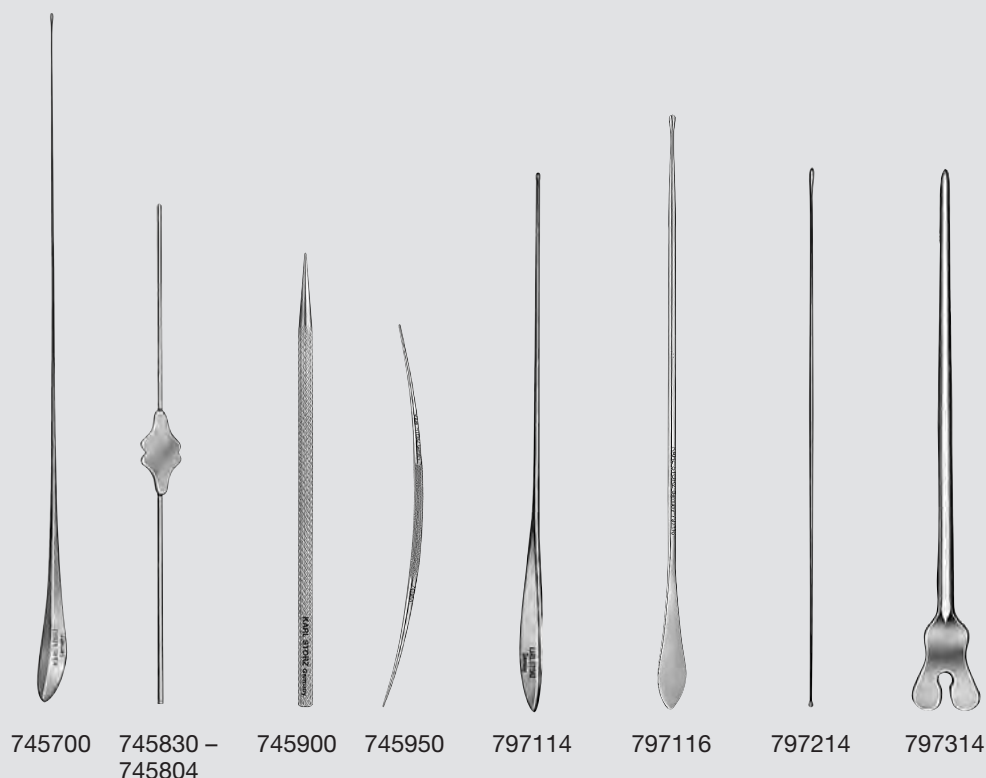


NEW 58950 MS **Mouth Mirror**, without magnification, diameter 22 mm, for use with Handle 58950 GR

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

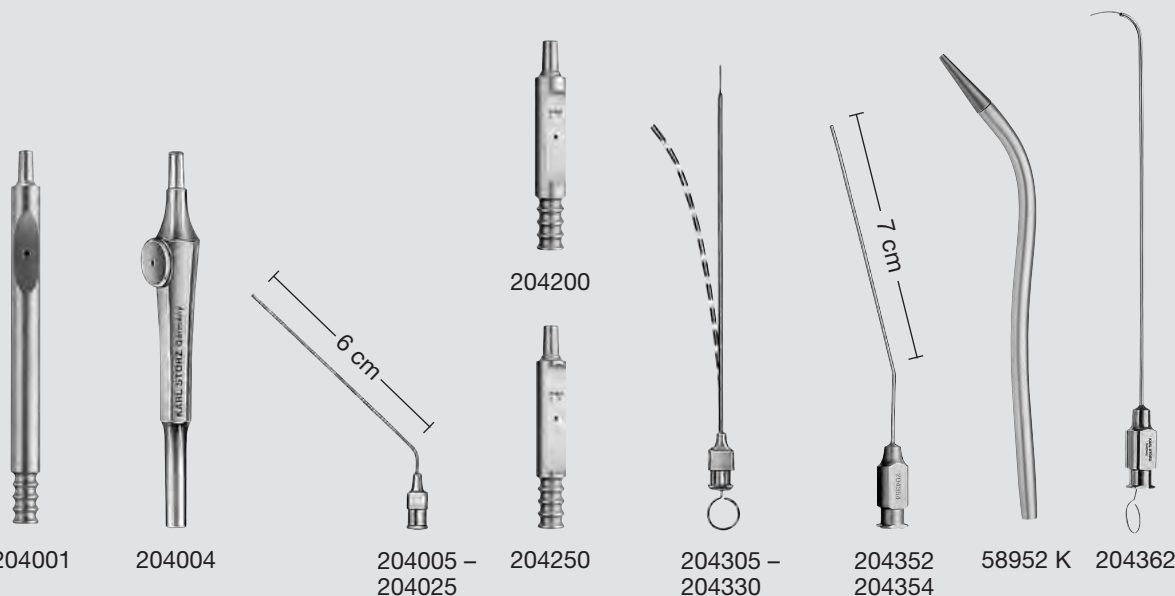
To view actual size of mouth mirrors see page 149



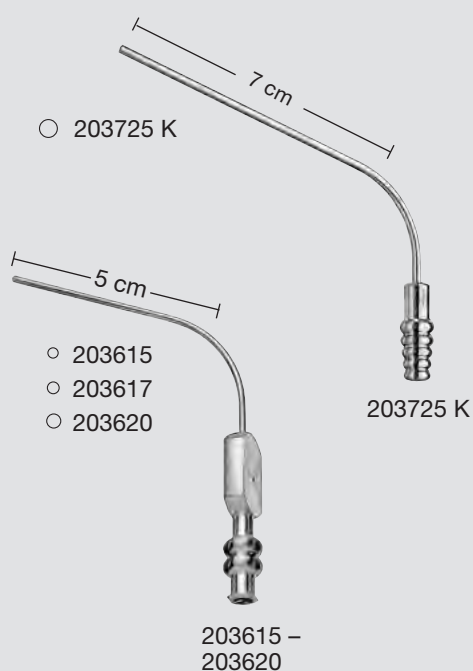
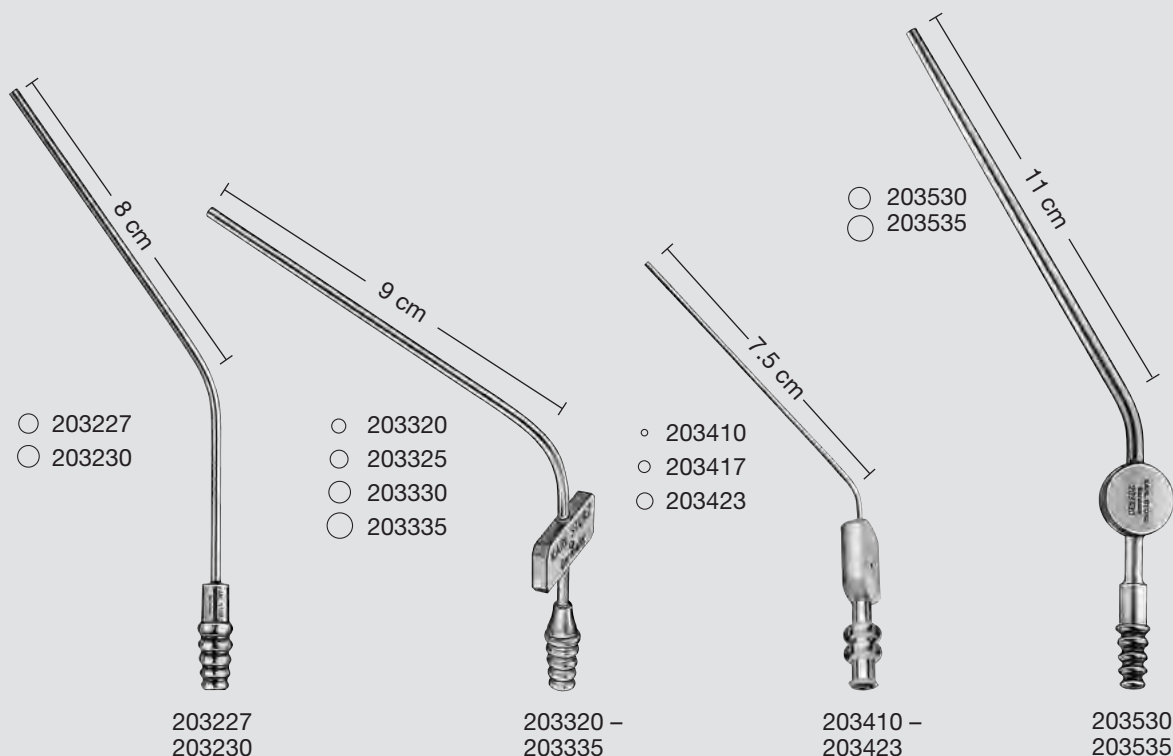


- 745700 SEIFFERT **Probe, for salivary duct**, silver, extra delicate, diameter 0.5 mm, length 18 cm
- 745830 BOWMAN **Probe, for salivary duct**, size 0000 – 000, diameter 0.5 and 0.6 mm, length 13 cm
- 745800 **Same**, size 00 – 0, diameter 0.7 and 0.8 mm
- 745802 **Same**, size 1 – 2, diameter 0.9 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

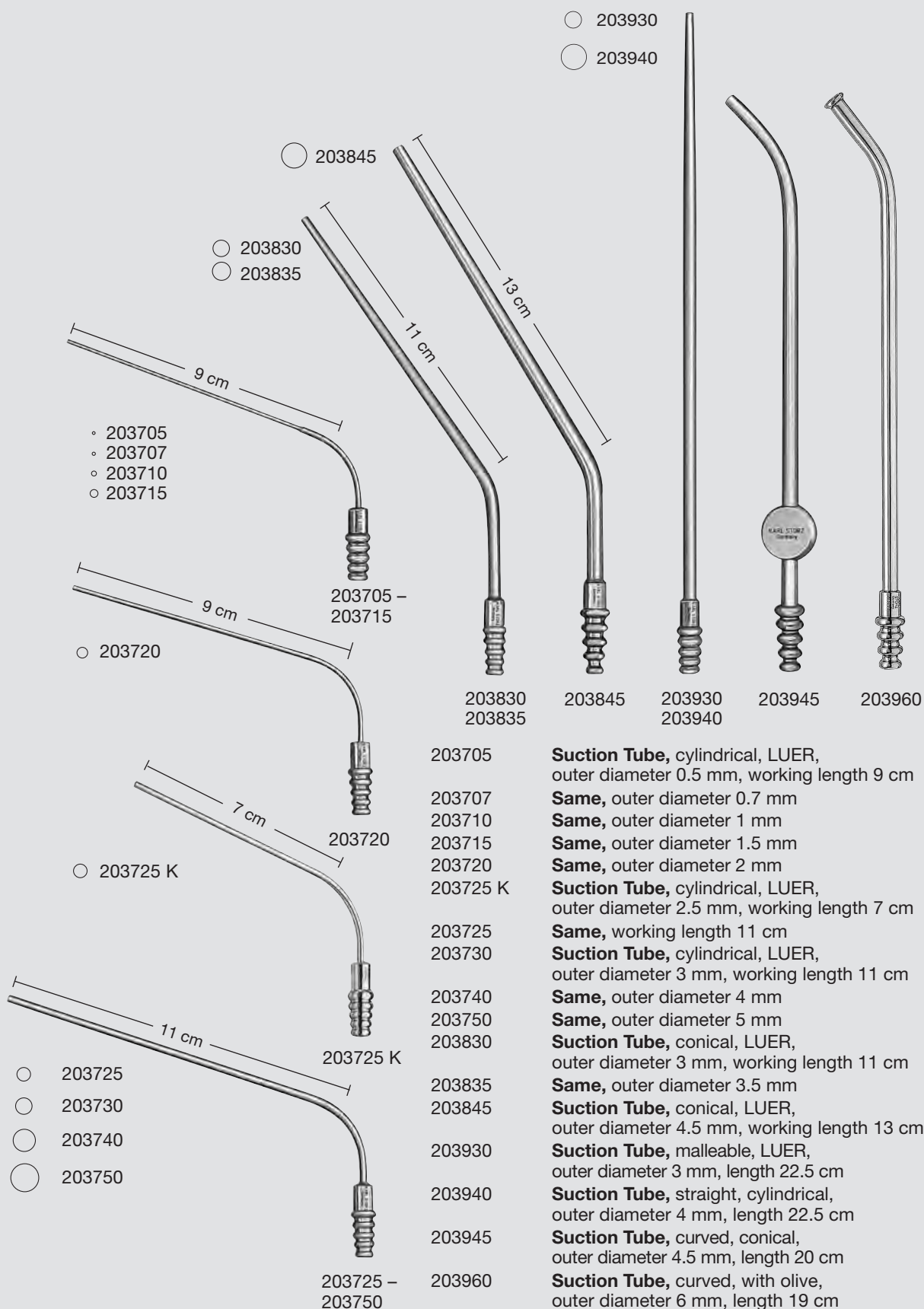


204001	Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204305	Suction Tube , straight, LUER-Lock, malleable, outer diameter 0.5 mm, length 10 cm
204004	WULLSTEIN Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204307	Same , outer diameter 0.7 mm
204005	Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm	204310	Same , outer diameter 1 mm
204007	Same , outer diameter 0.7 mm	204313	Same , outer diameter 1.3 mm
204008	Same , outer diameter 0.8 mm	204315	Same , outer diameter 1.5 mm
204010	Same , outer diameter 1 mm	204320	Same , outer diameter 2 mm
204013	Same , outer diameter 1.3 mm	204325	Same , outer diameter 2.5 mm
204015	Same , outer diameter 1.5 mm	204330	Same , outer diameter 3 mm
204020	Same , outer diameter 2 mm	204352	Suction Tube , angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm, for use with Handle 204250
204025	Same , outer diameter 2.5 mm	204354	Same , outer diameter 1 mm
204200	FISCH Adaptor , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	NEW 58952 K	Suction Tube , curved, with titanium tips, slotted, inner diameter 1.5 mm, length 18 cm
204250	FISCH Suction Handle , with long thumb grip, cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm, for use with Suction Tubes 204352 – 204354	NEW 58952 G	Same , inner diameter 3 mm
		NEW 204360	Suction Tube , curved 6 mm, LUER-Lock, outer diameter 0.8 mm, length 10 cm
		NEW 204361	Irrigation Cannula , curved 6 mm, LUER-Lock, outer diameter 1 mm, length 10 cm
		NEW 204362	Suction Tube , curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 10 cm
		NEW 204365	Same , curved 8 mm
		NEW 204366	Same , curved 8 mm, outer diameter 1.6 mm

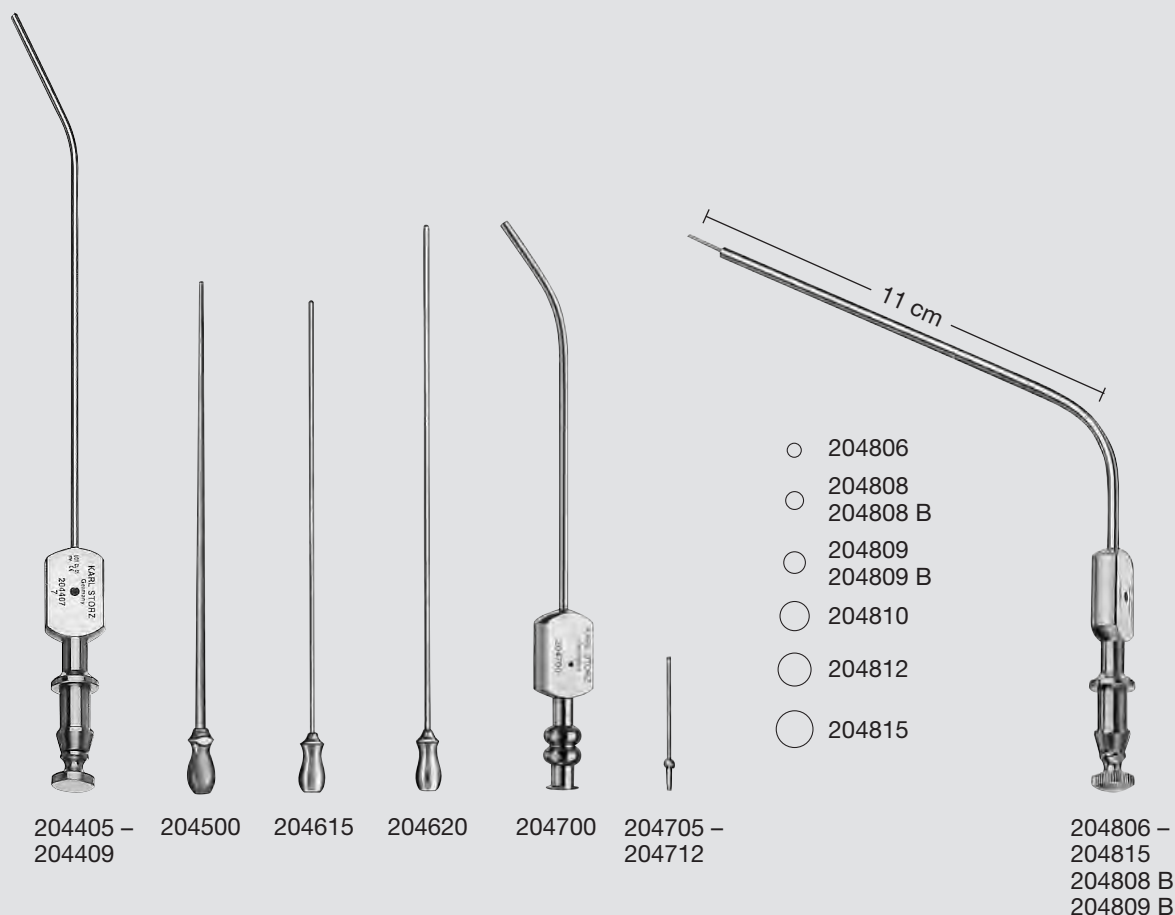


203227	Suction Tube , angular, cylindrical, LUER, outer diameter 2.7 mm, working length 8 cm
203230	Same , outer diameter 3 mm
203320	Suction Tube , angular, with grip plate and cut-off hole, LUER, outer diameter 2 mm, working length 9 cm
203325	Same , outer diameter 2.5 mm
203330	Same , outer diameter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

Suction Tubes



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 WÜLLSTEIN **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.

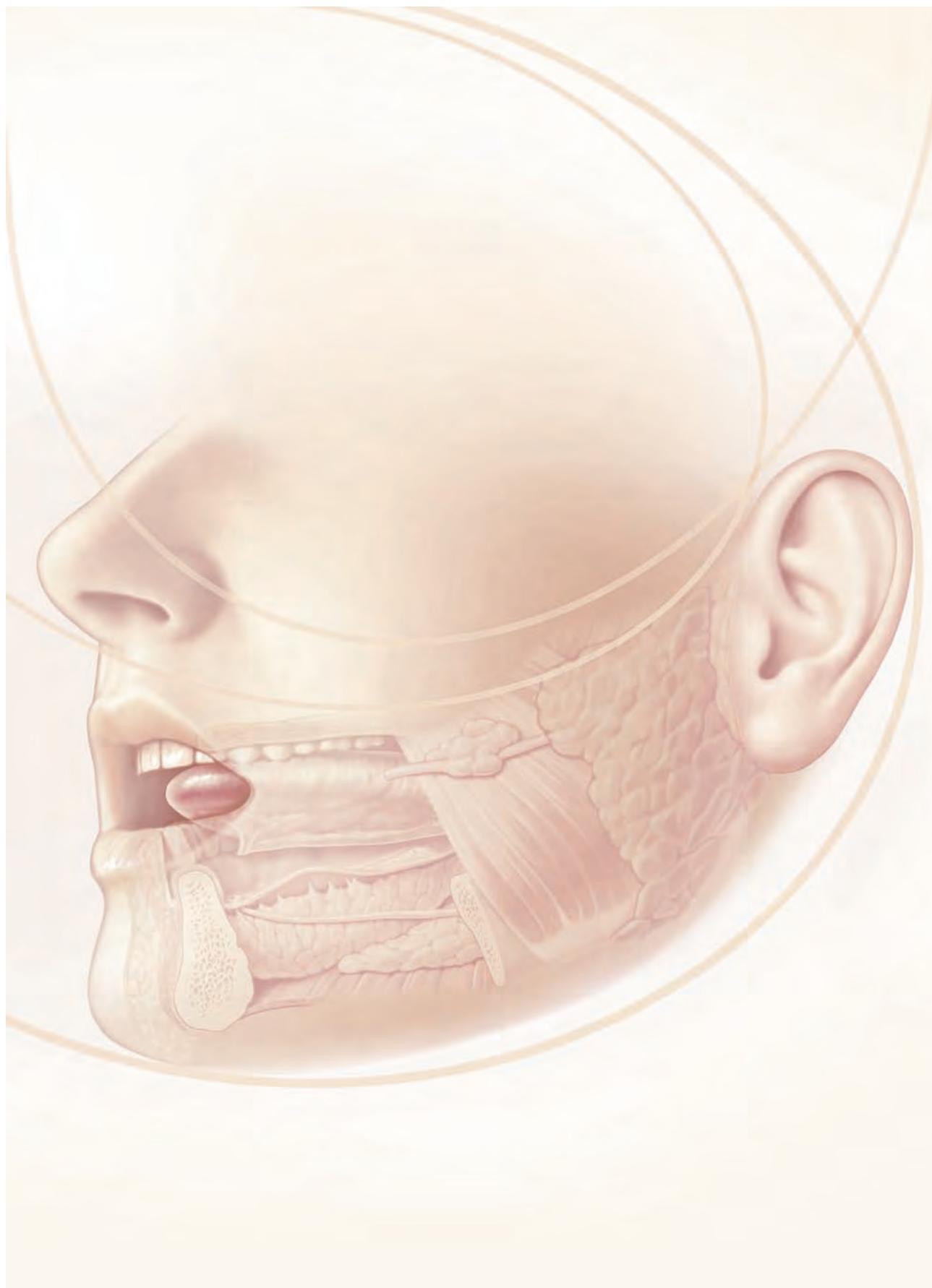
Cotton Applicators



151007	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

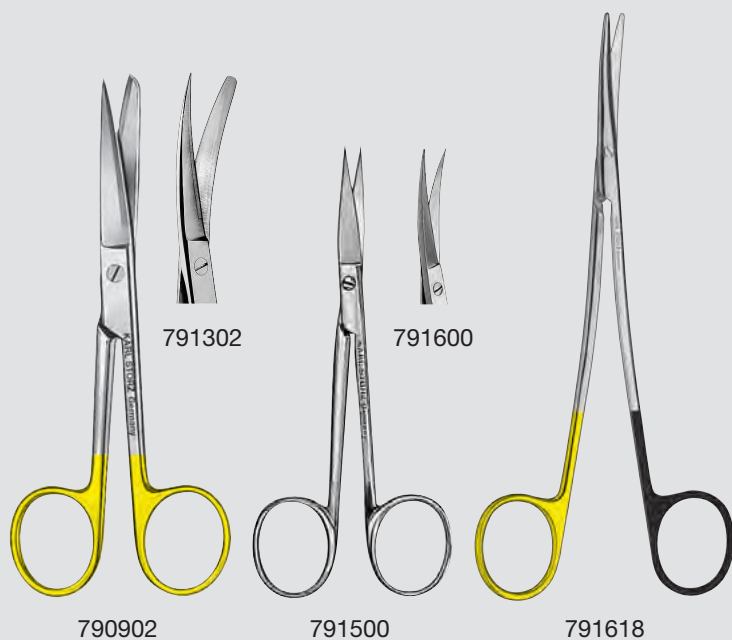
791002
791202

791003
791203

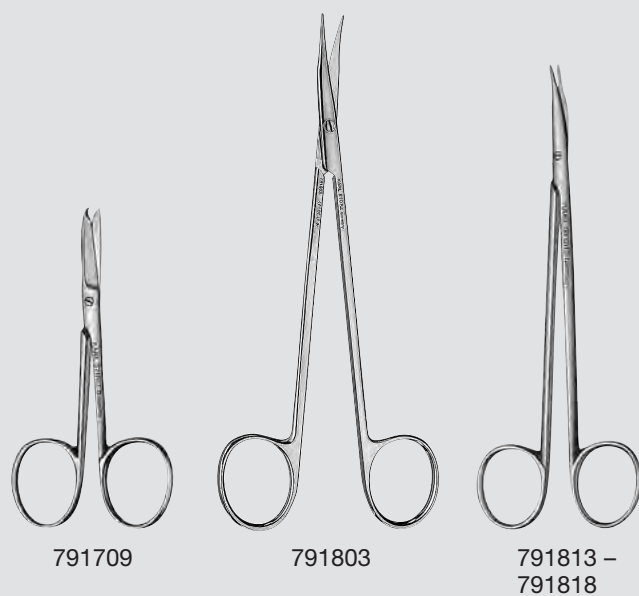
- 791001 **Scissors**, curved, sharp/sharp, length 13 cm
791002 **Same**, sharp/blunt
791003 **Same**, blunt/blunt

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

“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



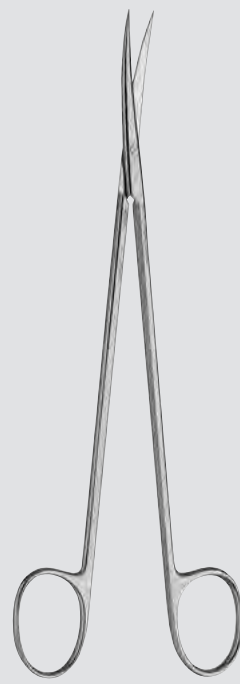
213314



213410



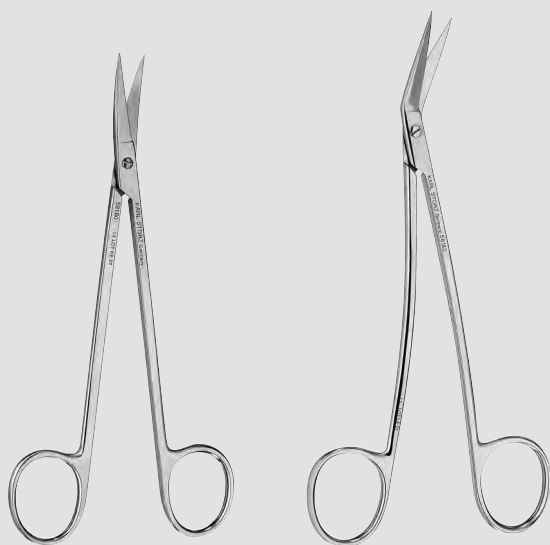
213411



745719

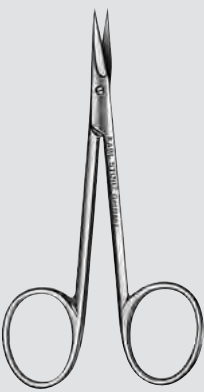
213200	Scissors , curved, sharp/blunt, length 12 cm
213314	WULLSTEIN Scissors , curved, sharp/sharp, length 14 cm
213410	FISCH Scissors , extra delicate, curved, sharp/sharp, length 10.5 cm
213411	FISCH Scissors , fine, curved, sharp/sharp, length 10.5 cm
745719	METZENBAUM Scissors , for sialolithotomy, curved, sharp/sharp, length 18 cm

Scissors, Wire Cutting Scissors,
Scissors with spring action



58180

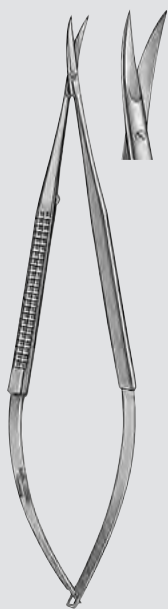
58182



227600



754350



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

752700

752800

752840

752918

752920



799614

799714

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



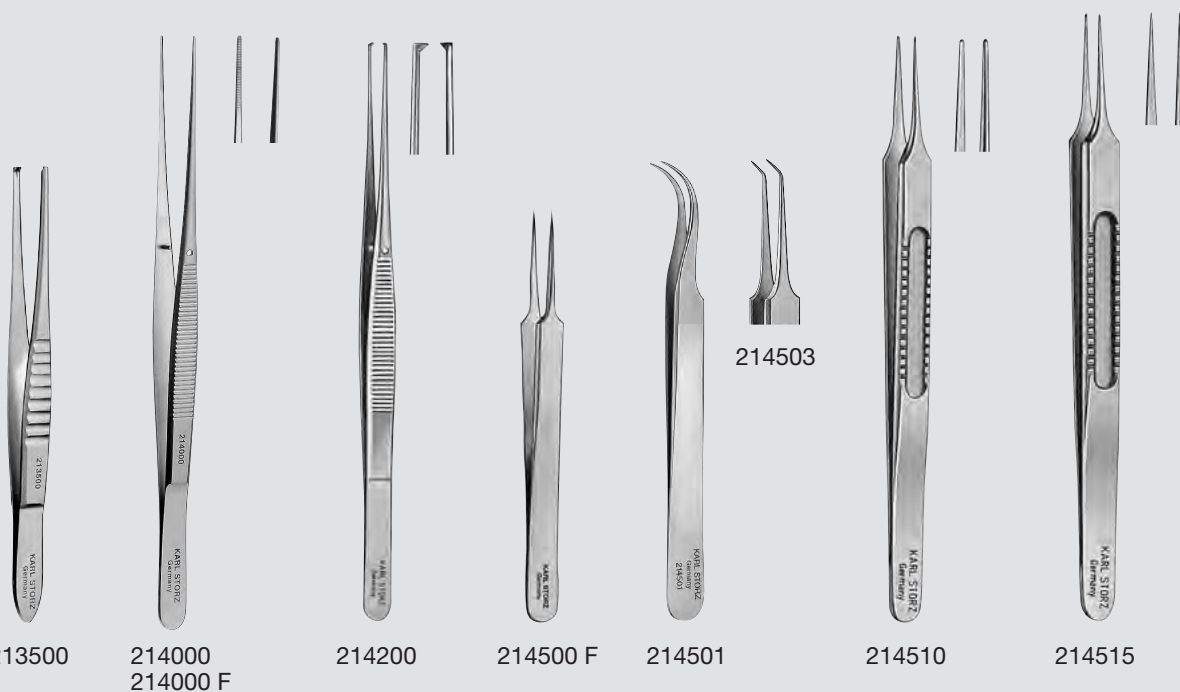
530910



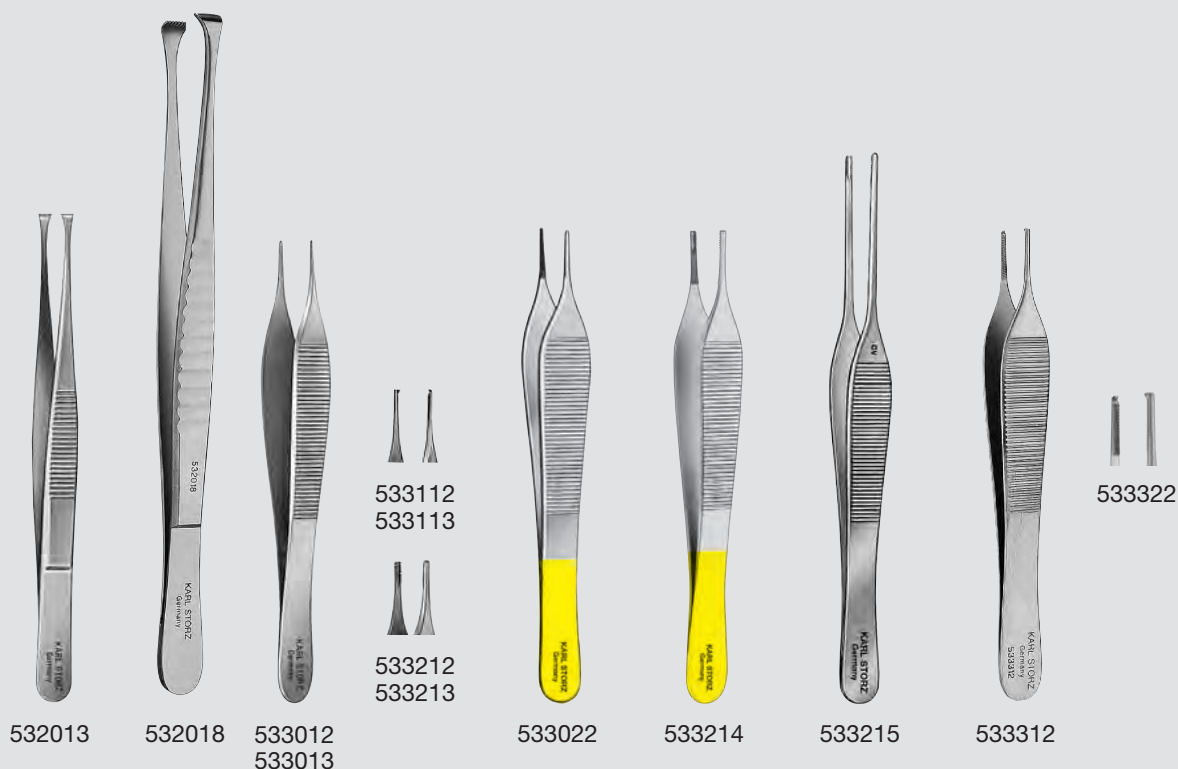
530911

- 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	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

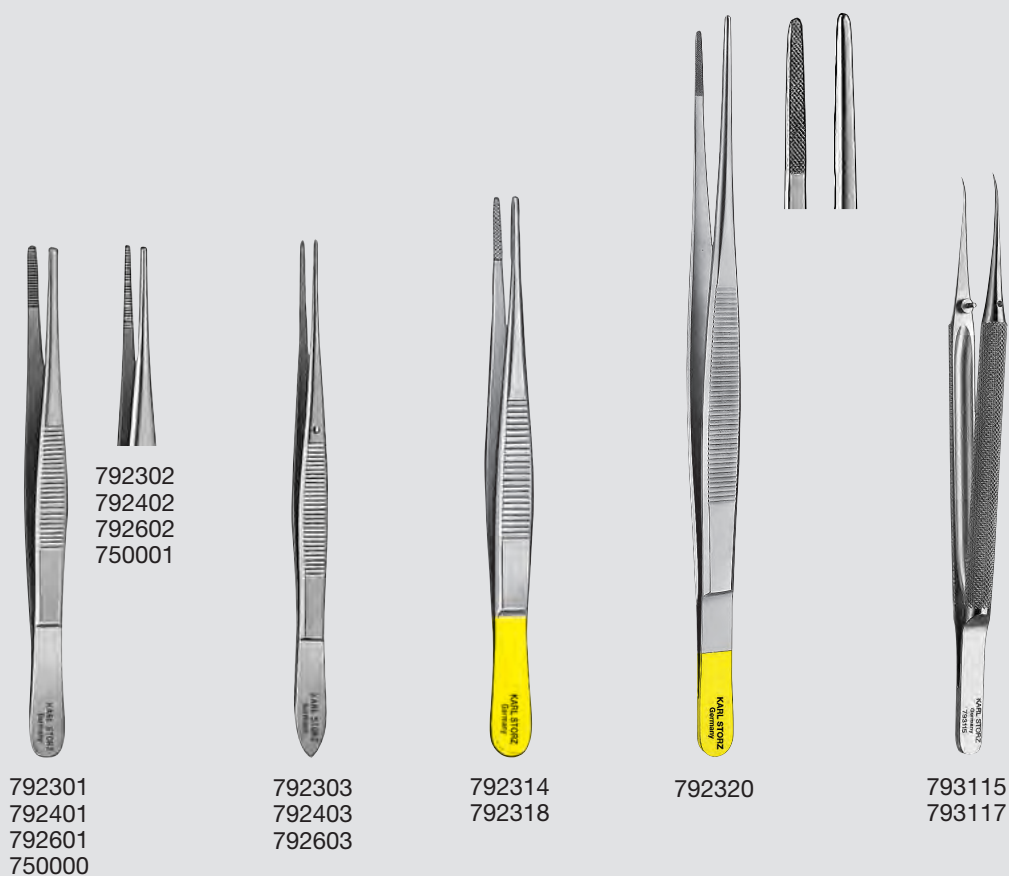
533312

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



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



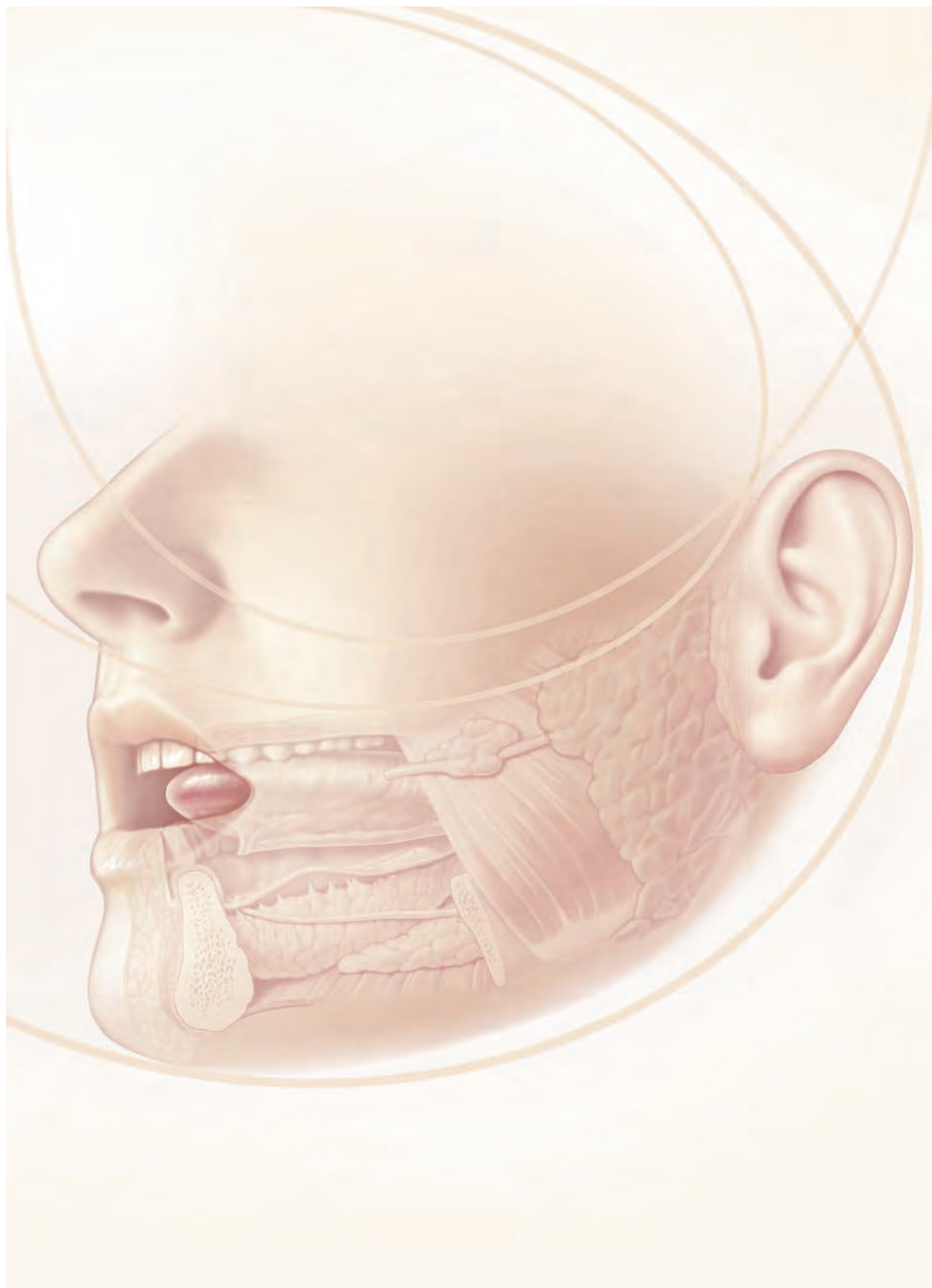
799814

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







789610



789614



794014 –
794020

794214 –
794220



794228



794514 –
794520

794814 –
794820

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



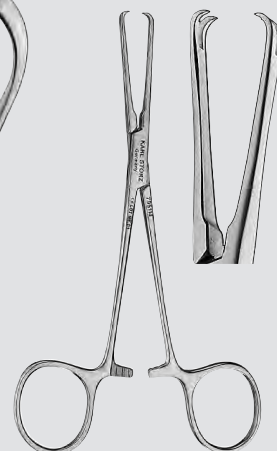
795012



795015



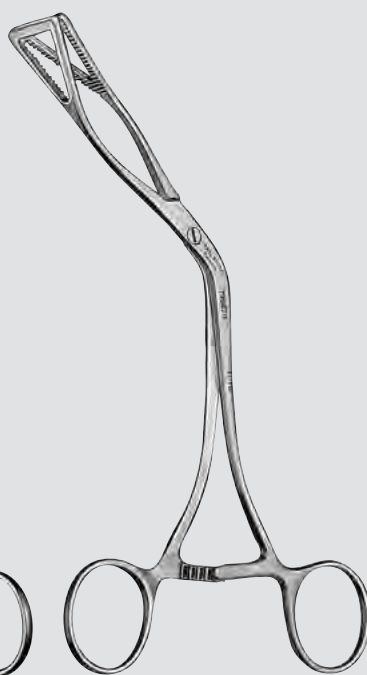
795031



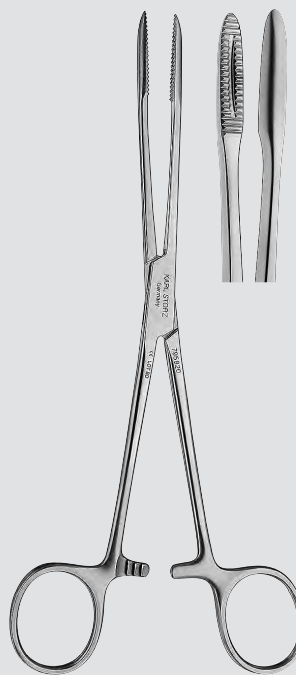
795114



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

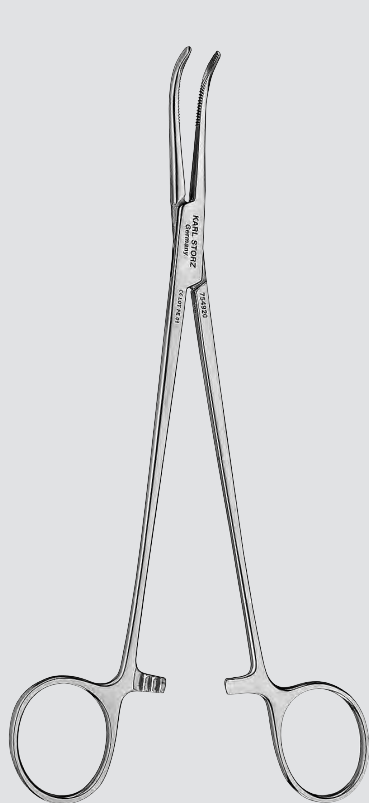
795115 **BRAUN Hook Forceps**, 4 x 4 teeth, length 15.5 cm

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

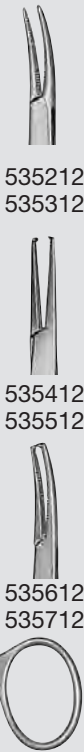
DIEFENBACH Bulldog Clamp, curved, length 4 cm



535010



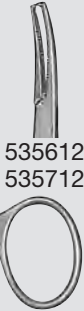
535012
535112



535212
535312



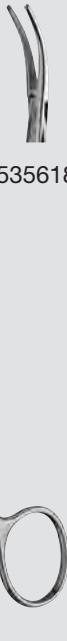
535412
535512



535612
535712



535418



535618



535812



536014



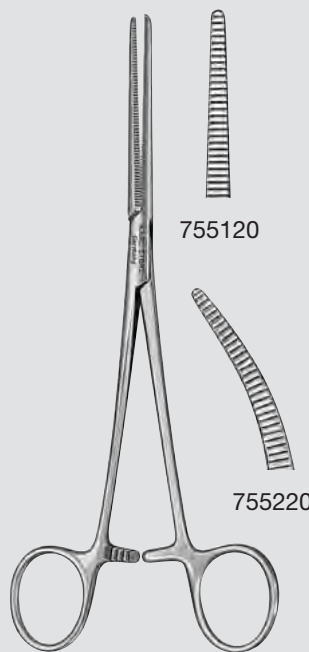
536214

- 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

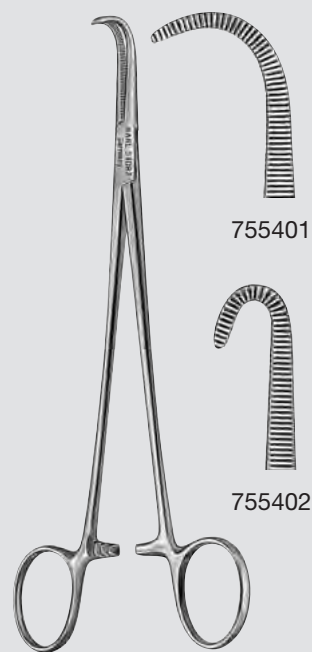
Forceps, Clamps



793814



755120



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

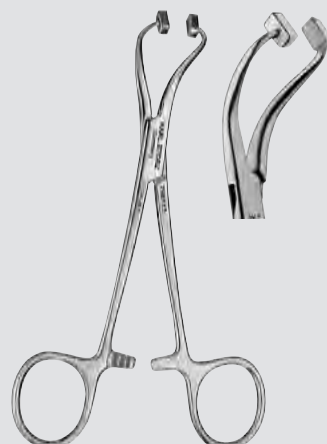
Towel Forceps



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

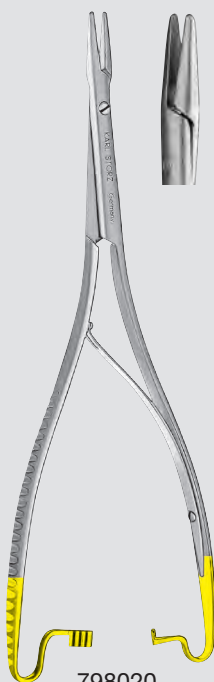
796413 **EDNA-LORNA Towel Forceps**,
serrated, non-perforating,
length 13 cm

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

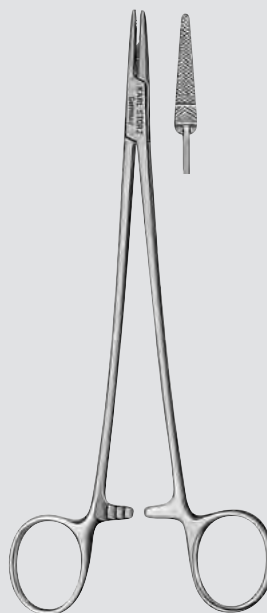
Needle Holders



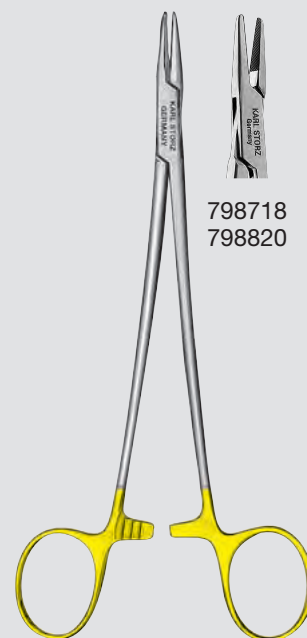
516013
516015



798020



798418



798718
798820

798618



799016



800001



800002



800005

- 516013 **Needle Holder**, tungsten carbide inserts, length 13 cm
- 516015 **Same**, length 15 cm
- 798020 **MATHIEU Needle Holder**, 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 ^{NEW}



799114



799214



799314

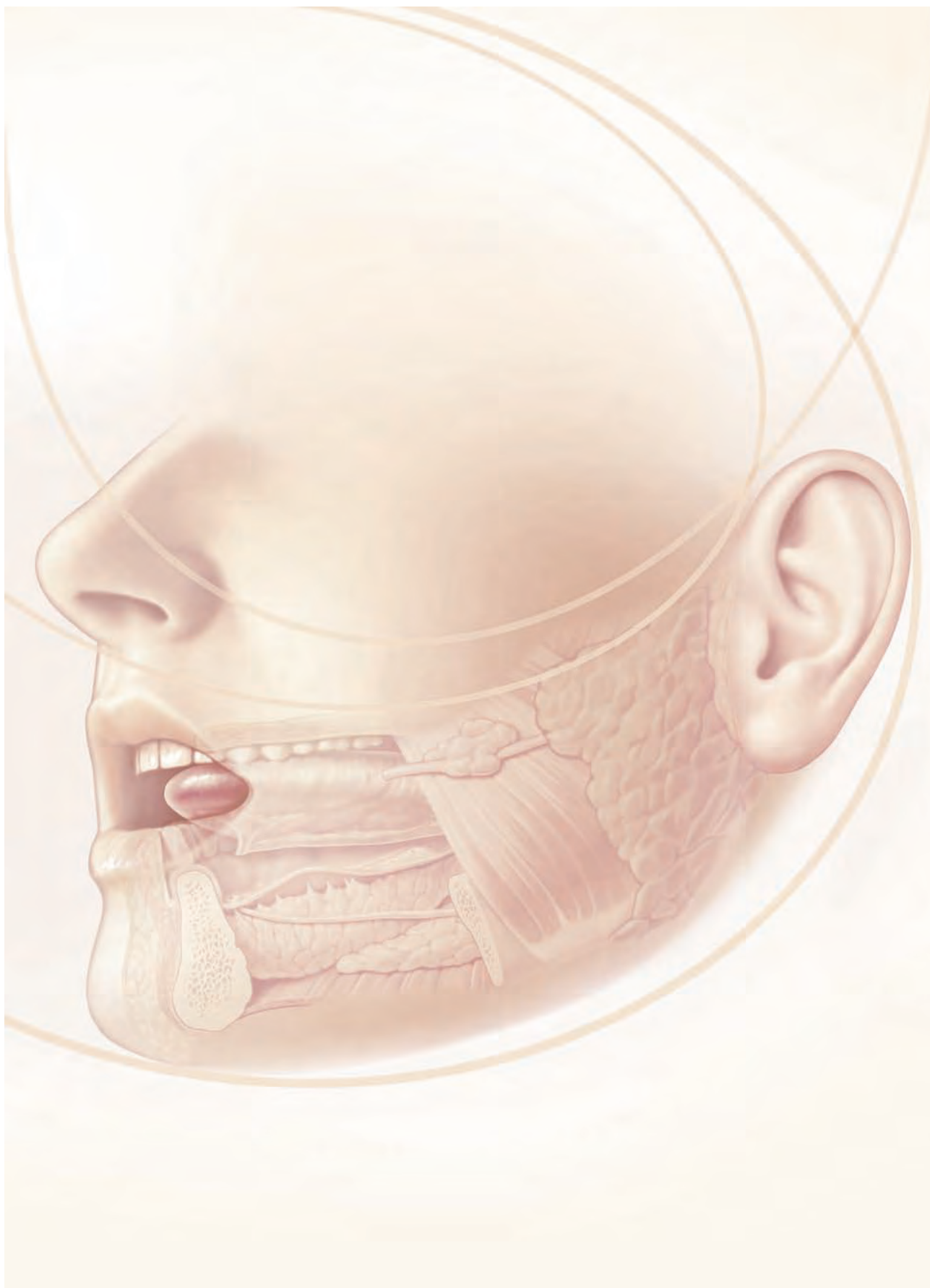


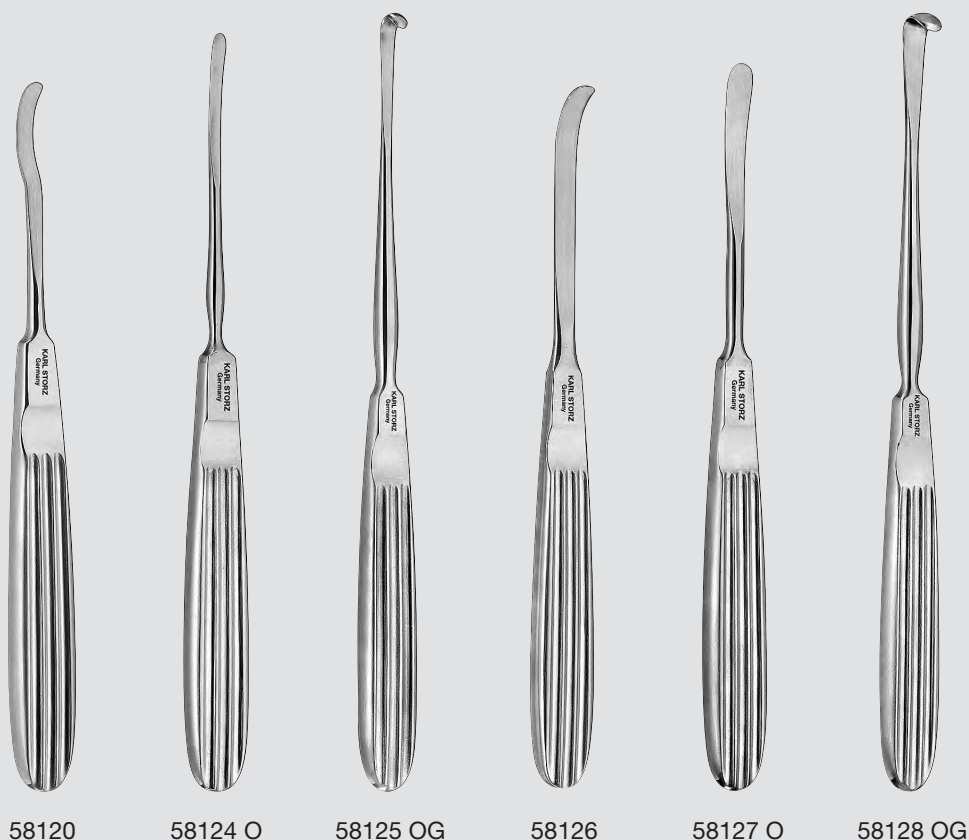
799414



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

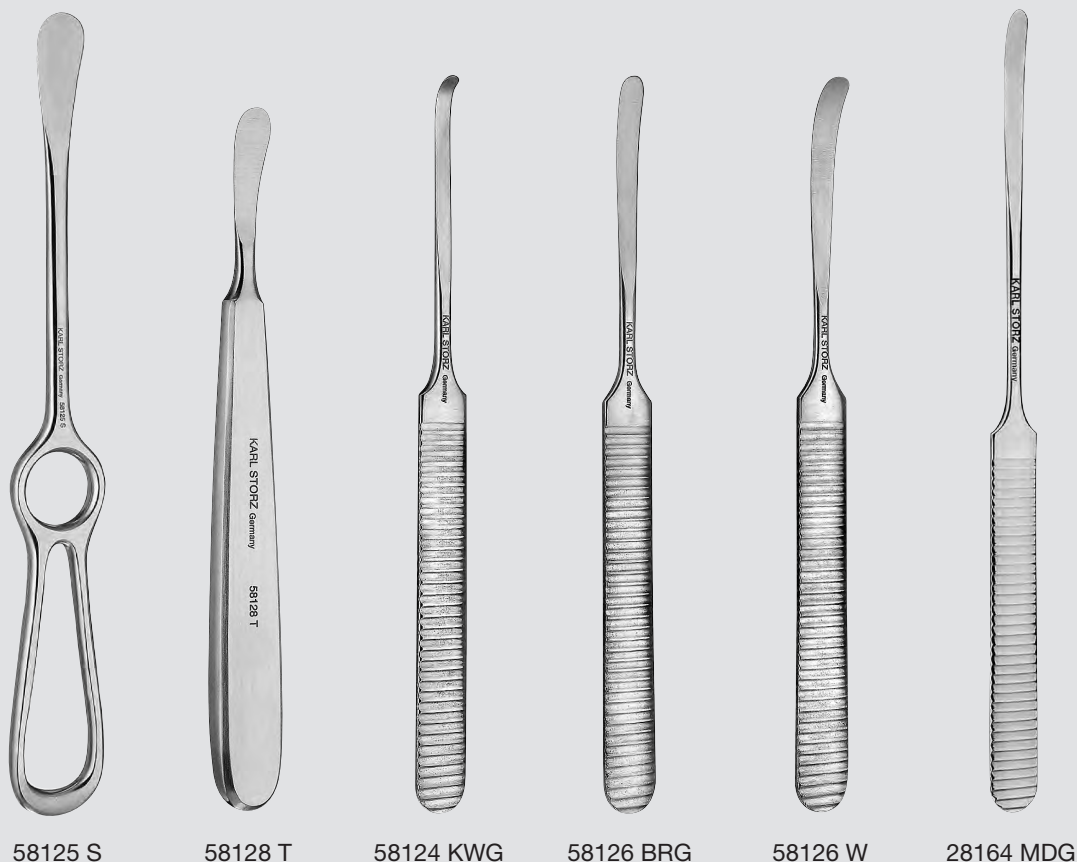


58122 RO



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

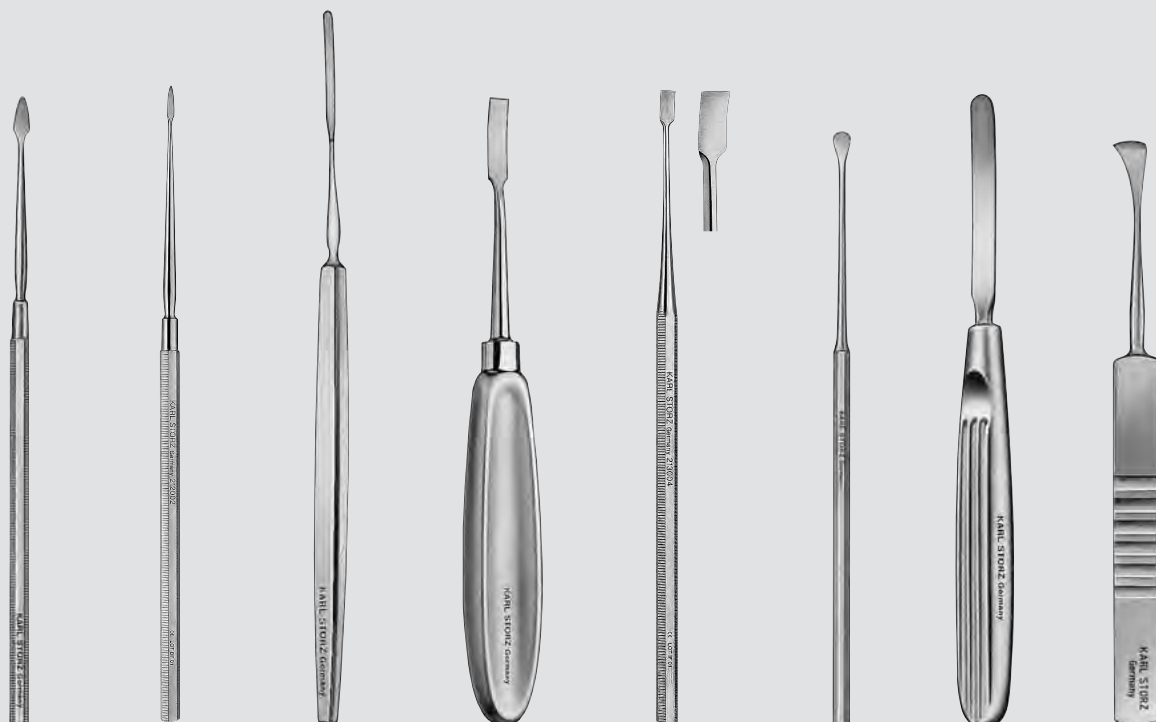


58125 S	Raspatory , flat, width 15 mm, length 22 cm
58128 T	TRELAT Raspatory , width 8 mm, length 15 cm
58124 KWG	KAHRE-WILLIGER Raspatory , curved, width 4 mm, length 16 cm
58126 BRG	WILLIGER Raspatory , flat, width 6 mm, length 16 cm
58126 W	WILLIGER Raspatory , curved, width 6 mm, length 16 cm
28164 MDG	Raspatory , inner side sharp, 5.5 mm, working length 9 cm



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 **FARABEUF 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



212000 212002 212803 212807 213004 213005 213008 213010



213011 213015

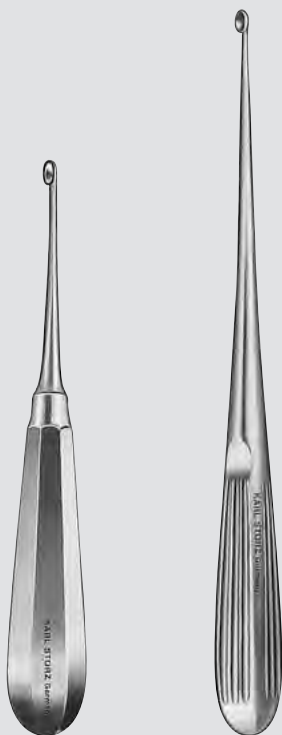
- 212000 **WULLSTEIN Raspatory,**
length 18 cm
- 212002 **DIETER Raspatory,**
width 2.2 mm, length 18 cm
- 212803 **LEMPERT Raspatory,**
width 3 mm, length 19 cm
- 212807 **LEMPERT Raspatory, curved,**
width 7 mm, length 18 cm
- 213004 **FISCH Raspatory, slightly curved,**
width 4 mm, length 18 cm
- 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



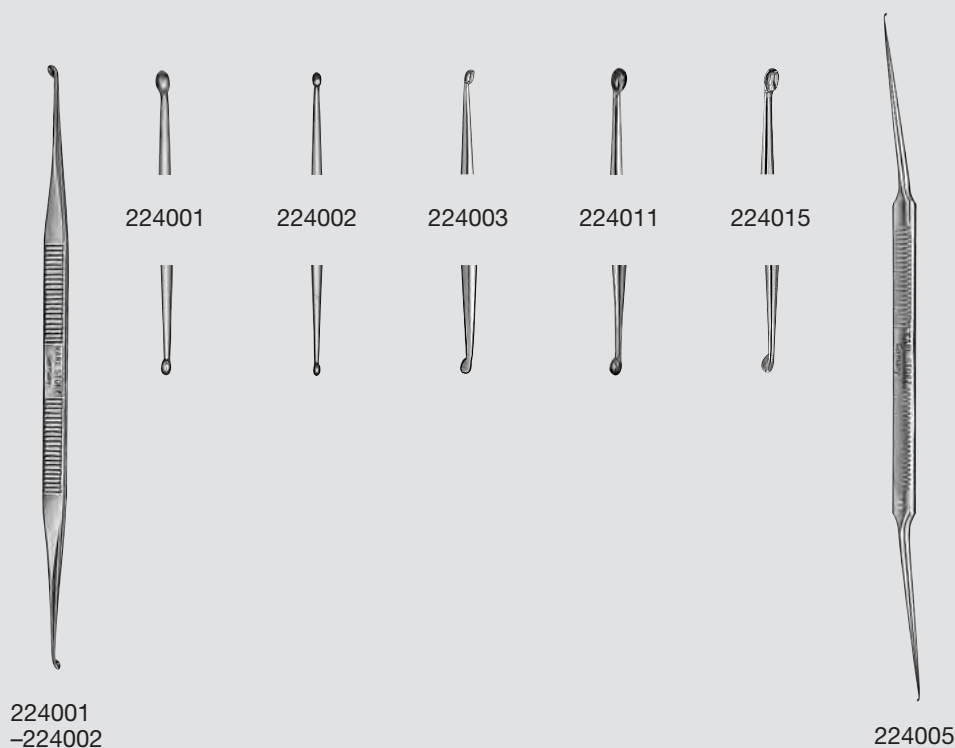
58130 58131 58135 R 58135 RG 58122 UD

- 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



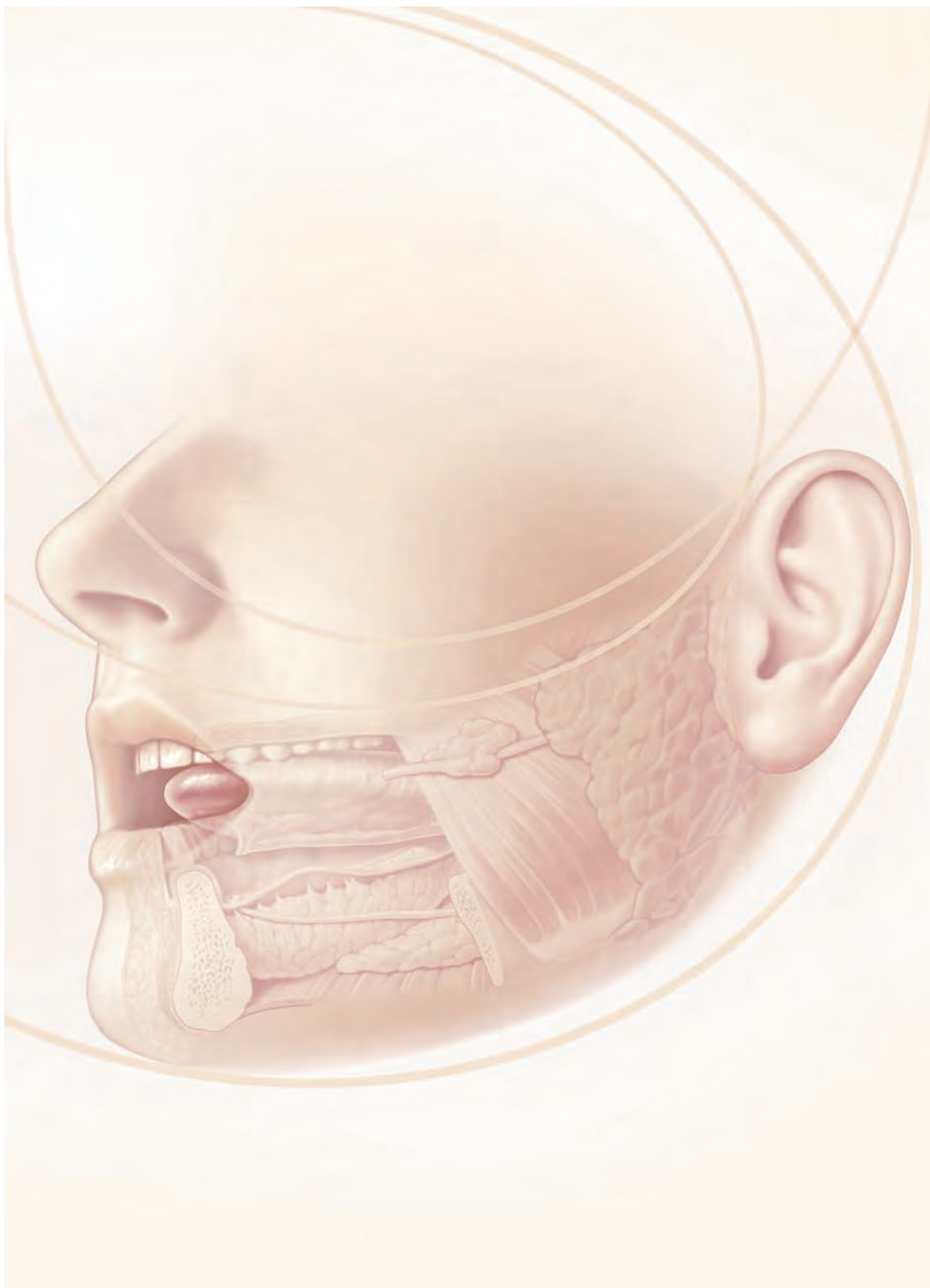
175840 – 175804 176040 – 176001

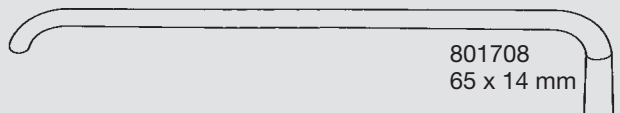
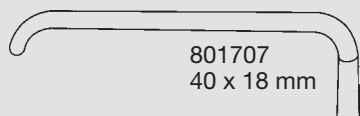
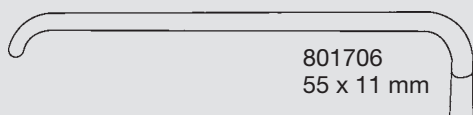
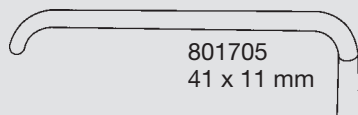
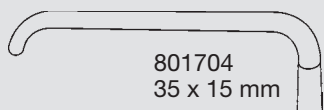
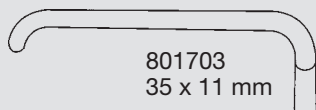
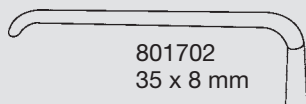
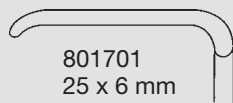
-  175840 **SPRATT Mastoid Curette**, size 0000, length 16.5 cm
-  175830 **Same**, size 000
-  175820 **Same**, size 00
-  175810 **Same**, size 0
-  175801 **SPRATT Mastoid Curette**, size 1, length 17 cm
-  175802 **Same**, size 2
-  175803 **Same**, size 3
-  175804 **Same**, size 4
-  176040 **LEMPERT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

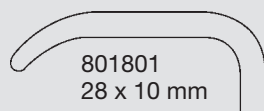
- 801707 KOCHER **Retractor**,
size 40 x 18 mm, length 23 cm

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

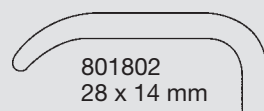
Retractors



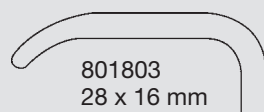
801801 –
801810



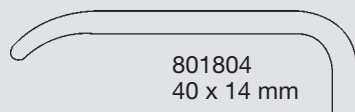
801801
28 x 10 mm



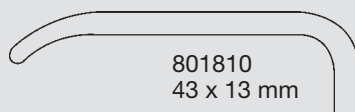
801802
28 x 14 mm



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

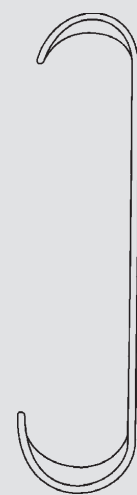
801810

Same, size 43 x 13 mm



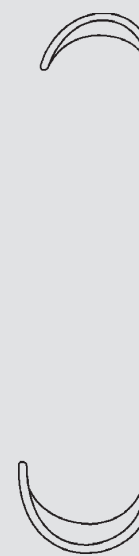
801901 –
801903

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

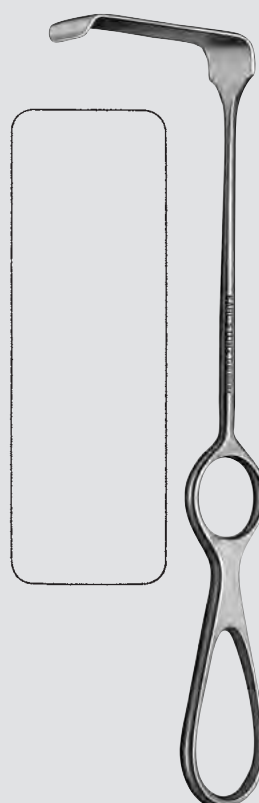
801404



801414



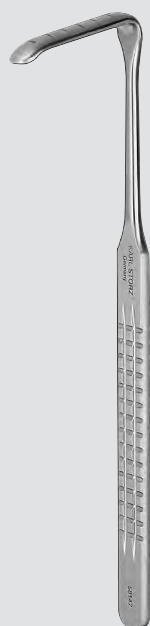
801600



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

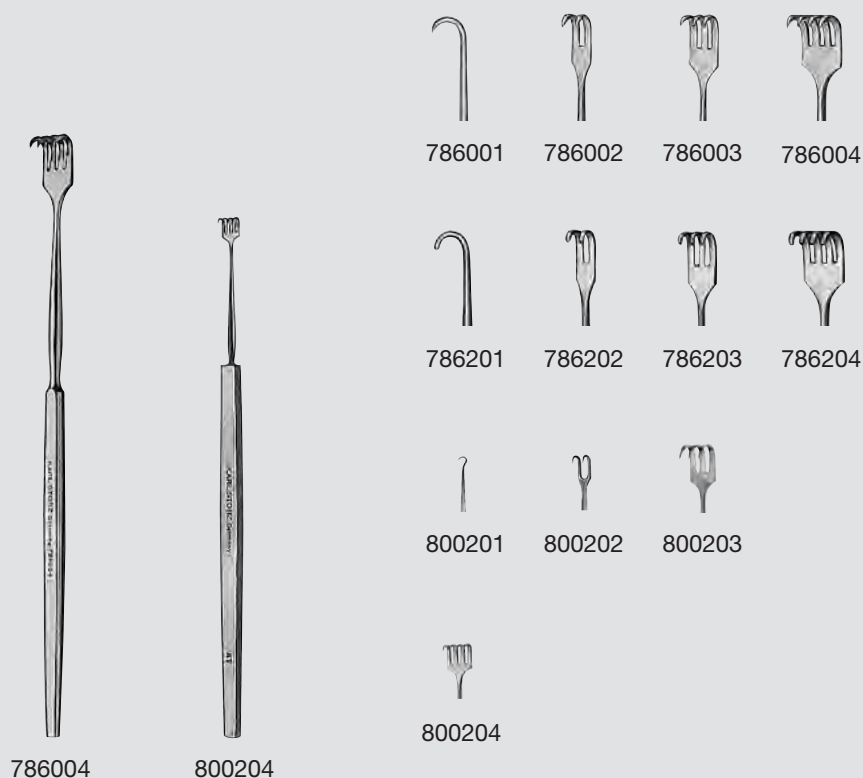
801600 **LANGENBECK Retractor**,
oval blade, size 60 x 20 mm,
length 21.5 cm

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



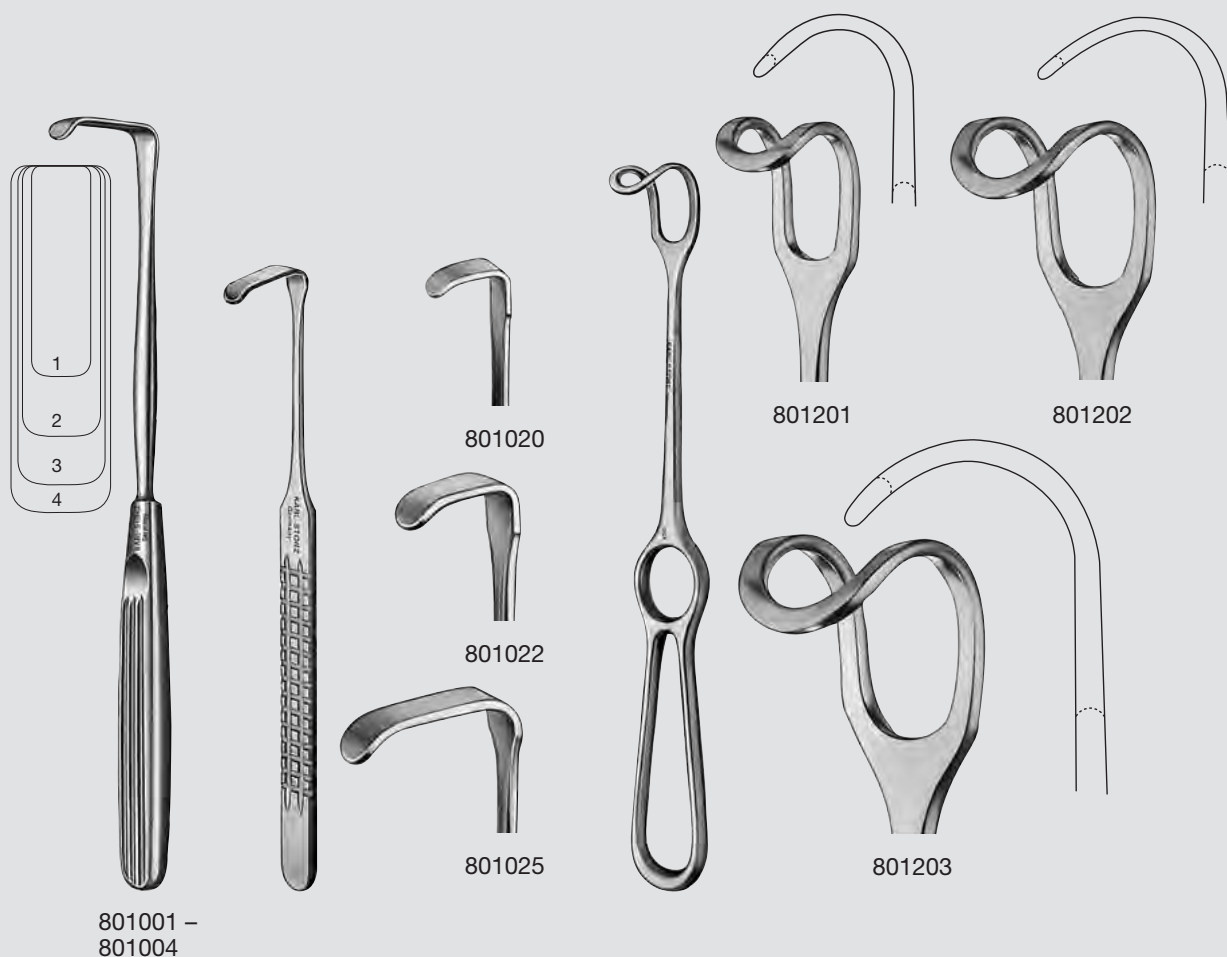
786001	Retractor , sharp, 1 prong, length 17 cm
786002	Same , 2 prongs
786003	Same , 3 prongs
786004	Same , 4 prongs
786201	Retractor , blunt, 1 prong, length 17 cm
786202	Same , 2 prongs
786203	Same , 3 prongs
786204	Same , 4 prongs
800201	Retractor , extra fine, sharp, 1 prong, length 12 cm
800202	Same , 2 prongs
800203	Retractor , extra fine, sharp, 3 prongs, length 13 cm
800204	Retractor , extra fine, sharp, 4 prongs, length 13 cm



- 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

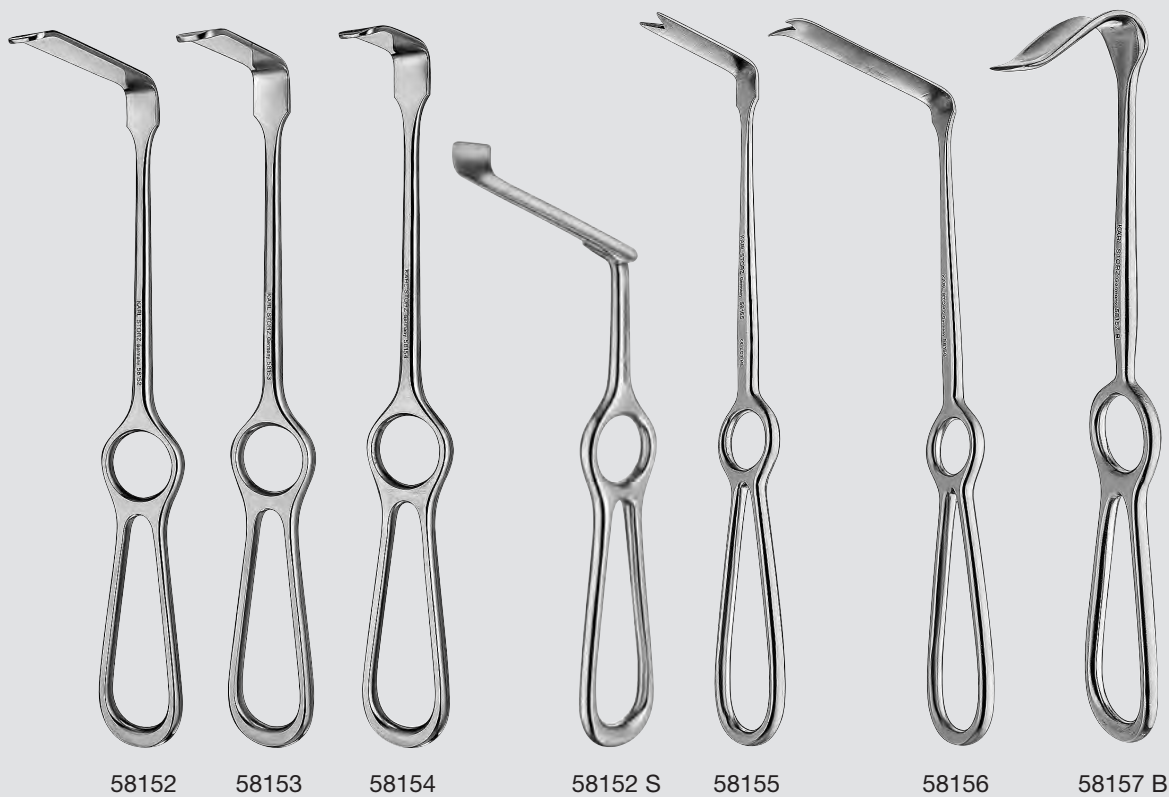
- 800422 VOLKMANN **Retractor**, semisharp, 2 prongs, size 8.5 x 8 mm, length 22 cm
- 800424 VOLKMANN **Retractor**, semisharp, 4 prongs, length 21 cm
- 800426 **Same**, 6 prongs
- 800501 VOLKMANN **Retractor**, blunt, 1 prong, length 21 cm
- 800502 **Same**, 2 prongs
- 800503 **Same**, 3 prongs
- 800504 **Same**, 4 prongs
- 800506 **Same**, 6 prongs

Retractors



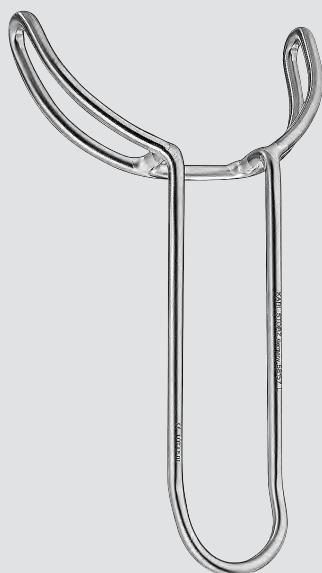
- 801001 LANGENBECK **Retractor**, size 1, 25 x 7.5 mm, length 22 cm
 801002 **Same**, size 2, 31 x 9 mm
 801003 **Same**, size 3, 37 x 10.5 mm
 801004 **Same**, size 4, 40 x 12 mm
 801020 LANGENBECK-GREEN **Retractor**, with flat handle, 10 x 4 mm, length 16 cm
 801022 **Same**, 16 x 6 mm
 801025 **Same**, 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



- 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



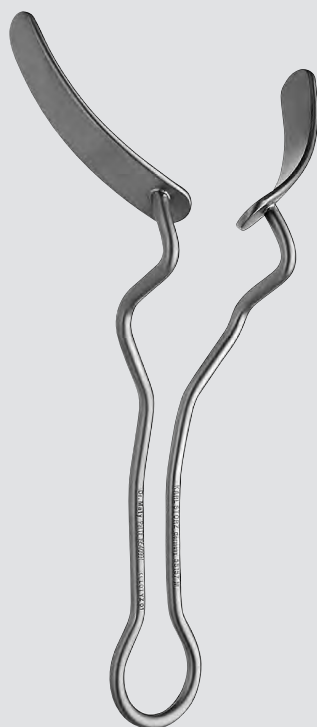
58157 L



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

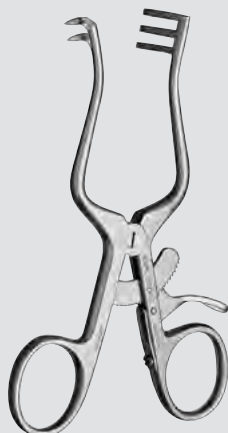
Same, right

NEW 58157 M

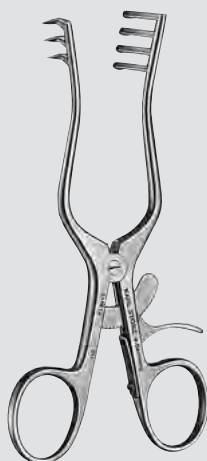
MATY Universal Cheek Retractor, for upper and lower jaws

NEW 58157 V

KAPOGIANNI Vestibulum Retractor, for retracting the dissected mucoperiosteal flap



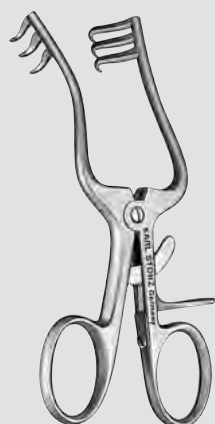
214811



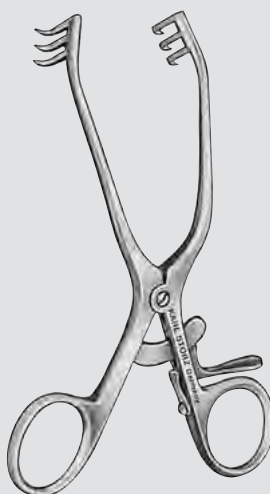
214813 –
214820



215001



219511
219513



219613



219714 K

214811 WEITLANER **Retractor**, 2 x 3 prongs, blunt, length 11 cm

214813 WEITLANER **Retractor**, 3 x 4 prongs, sharp, length 13 cm

214816 **Same**, length 16 cm

214820 **Same**, length 20 cm

215001 JANSEN **Retractor**, 3 x 3 prongs, blunt, length 10 cm

219511

WULLSTEIN **Retractor**, 3 x 3 prongs, length 11 cm

219513

Same, length 13 cm

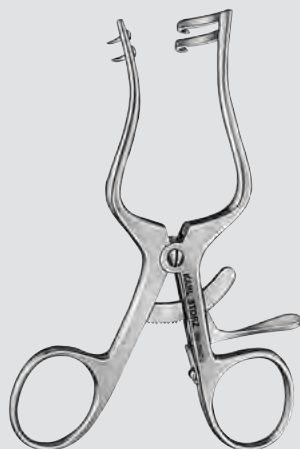
219613

BELLUCCI **Retractor**, 3 x 3 prongs, length 13 cm

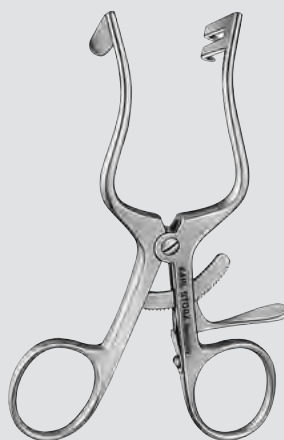
219714 K

DALCHOW **Retractor**, small model for children, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm

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

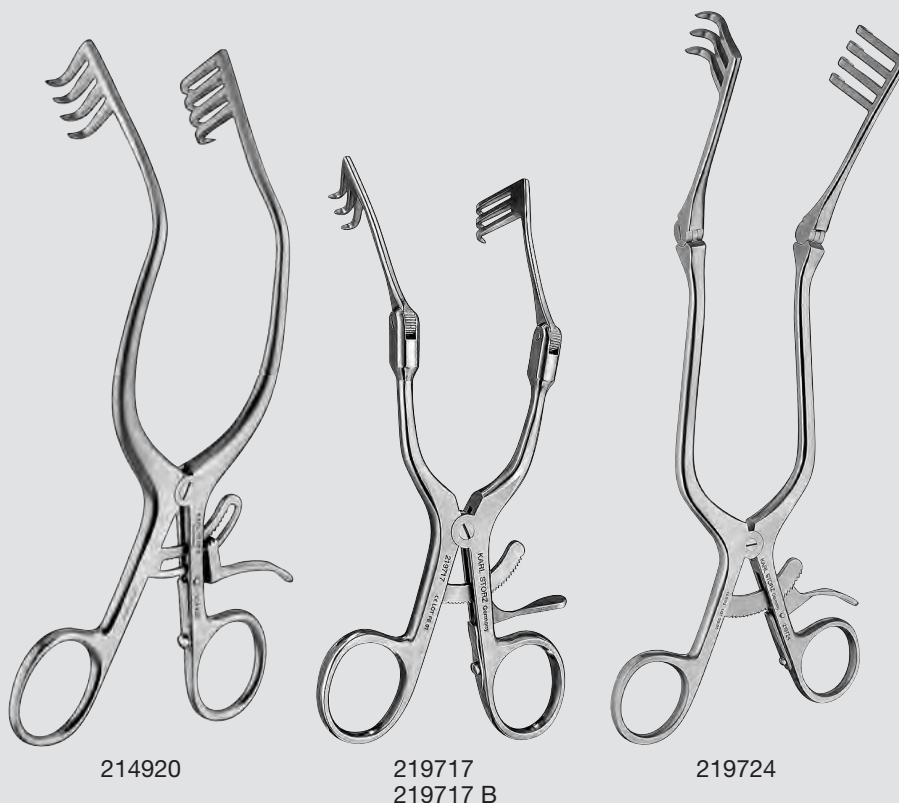
DALCHOW **Retractor**, small model for children, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm

220700

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

220703

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



214920	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

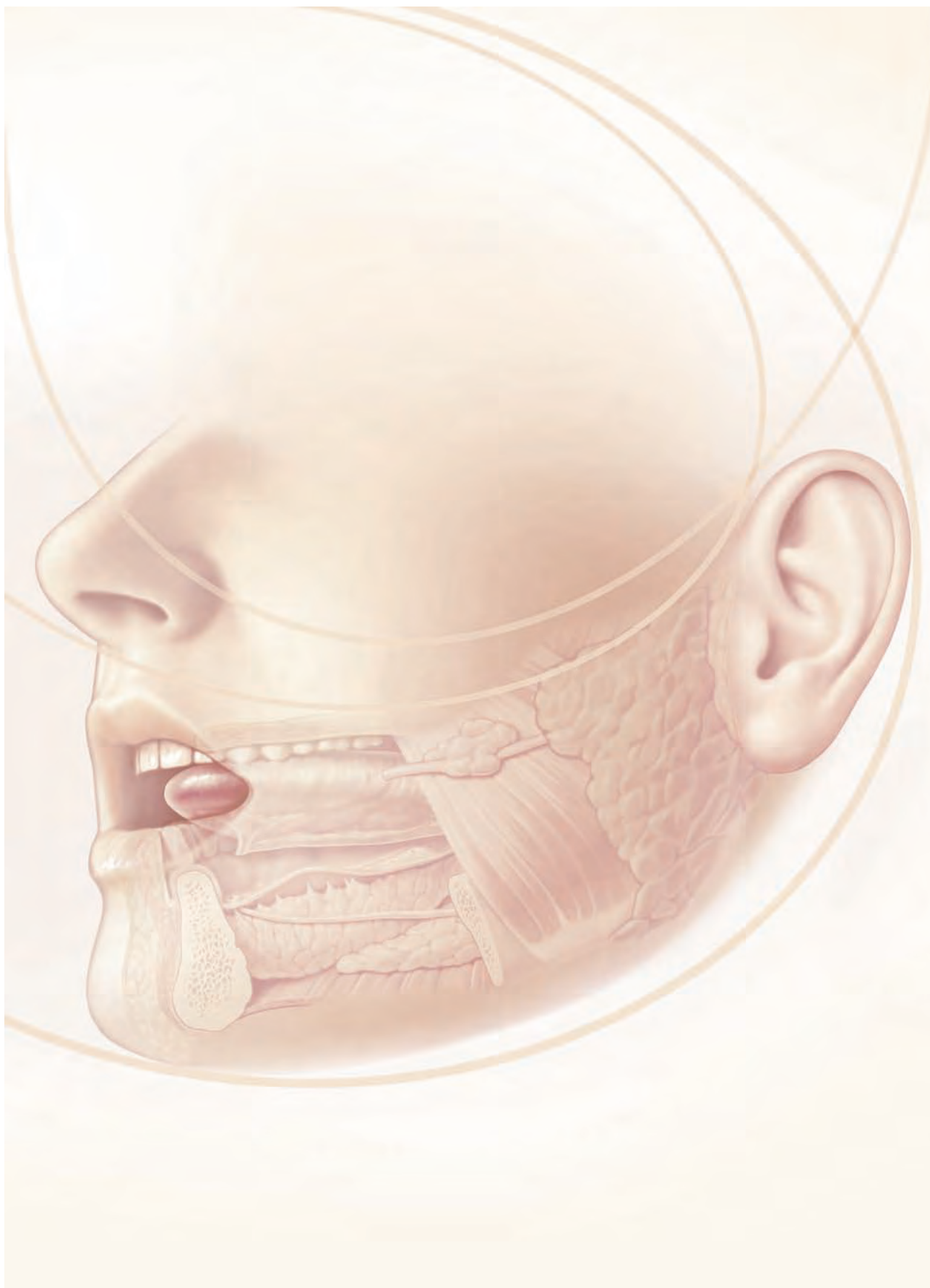
58151 **Channel Retractor**, width 10 mm,
length 17 cm

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

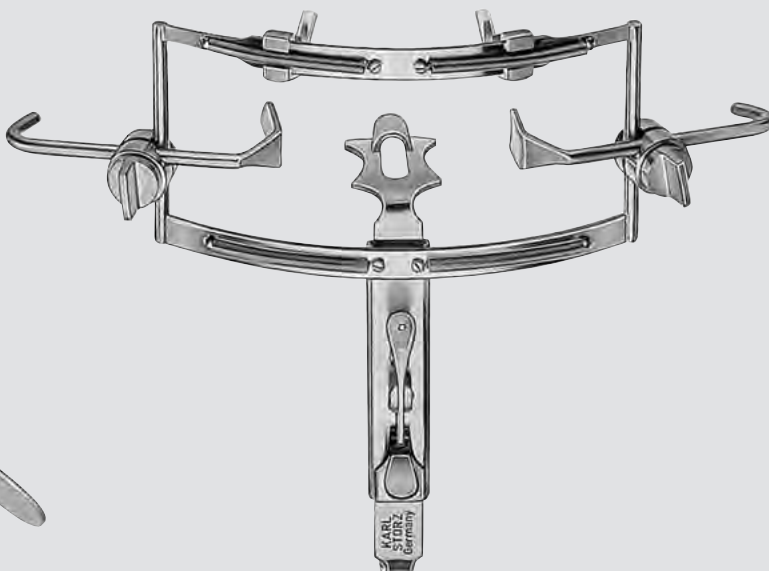
740700

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

Components/Spare Parts see chapter 16

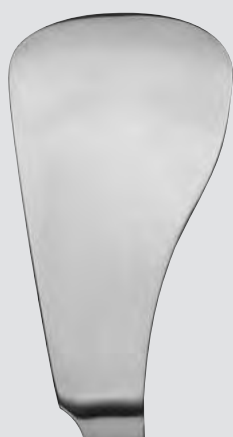
DAVIS-MEYER Tongue Blades



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

Components/Spare Parts see chapter 16

Tongue Blades

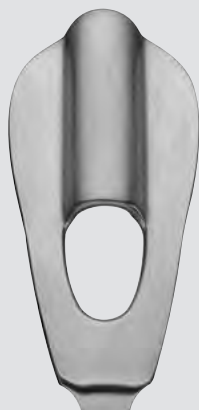


744101 –
744104



744101 –
744104

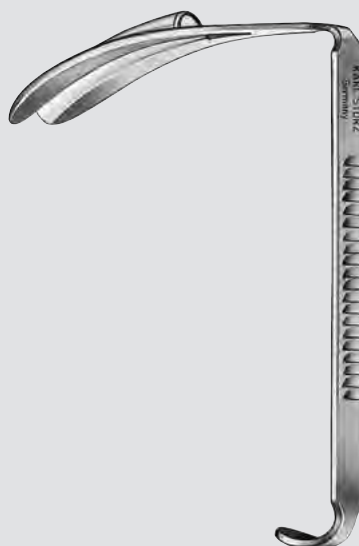
744101	HERBERHOLD Tongue Blade , with asymmetric recess for guiding the endotracheal tube along the alignment, size 1, 29 x 65 mm
744102	Same , size 2, 33 x 73 mm
744103	Same , size 3, 38 x 83 mm
744104	Same , size 4, 41 x 98 mm



744200 –
744205



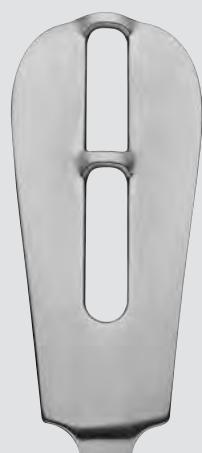
744251 –
744253



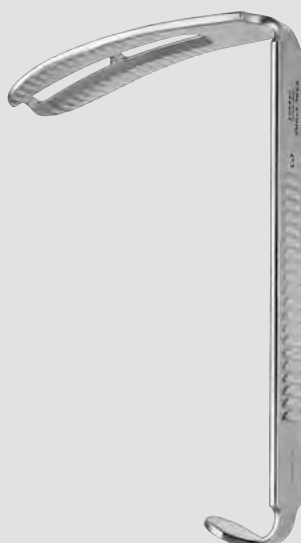
744200 –
744205

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

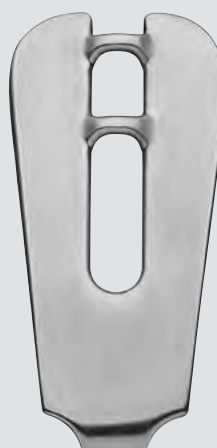
Tongue Blades



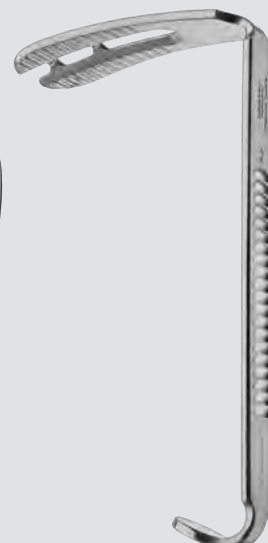
744301 –
744305



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



- 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

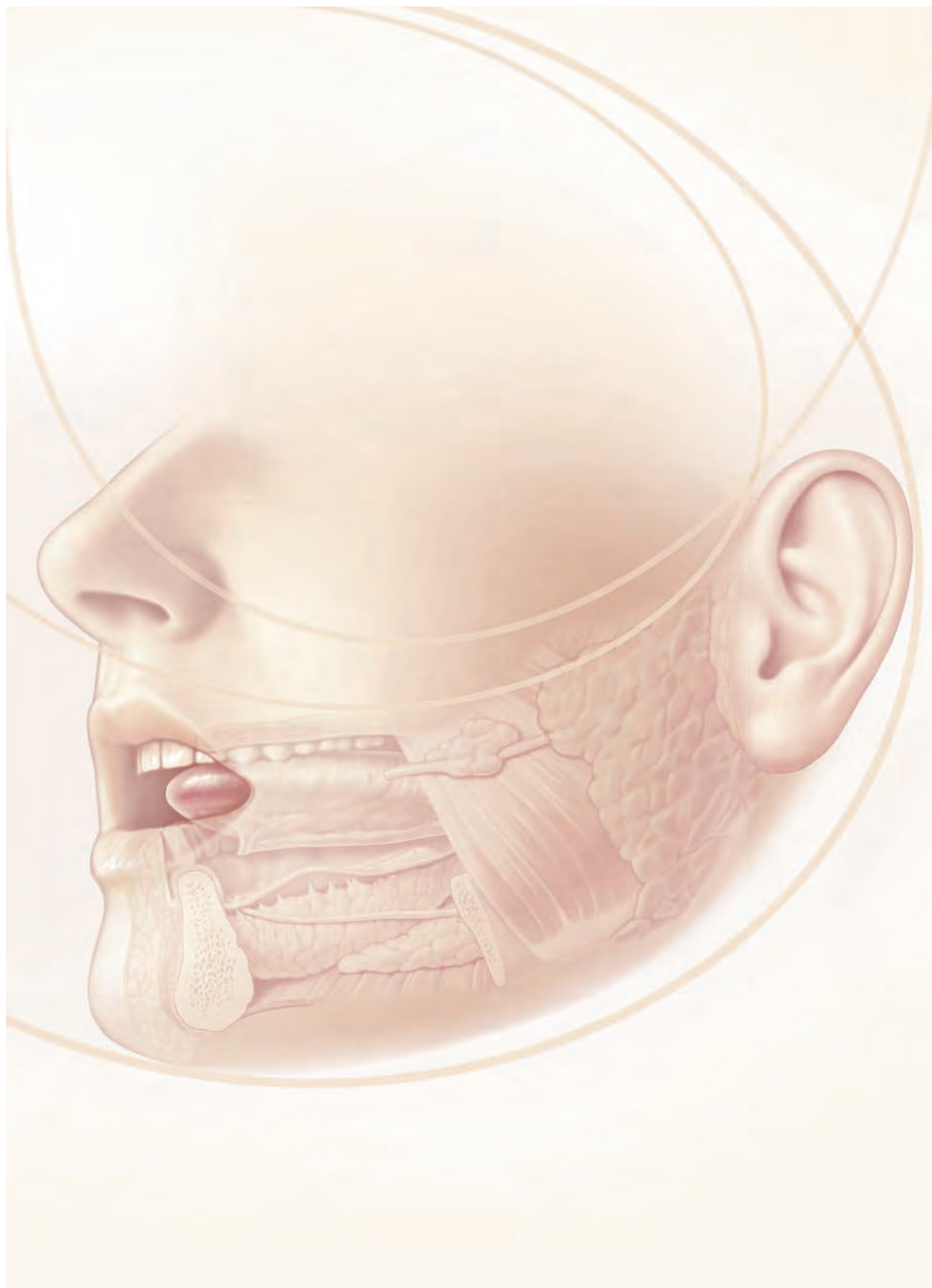
NEW 58194 **MOLT Mouth Gag**, large model, length 14 cm

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, 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

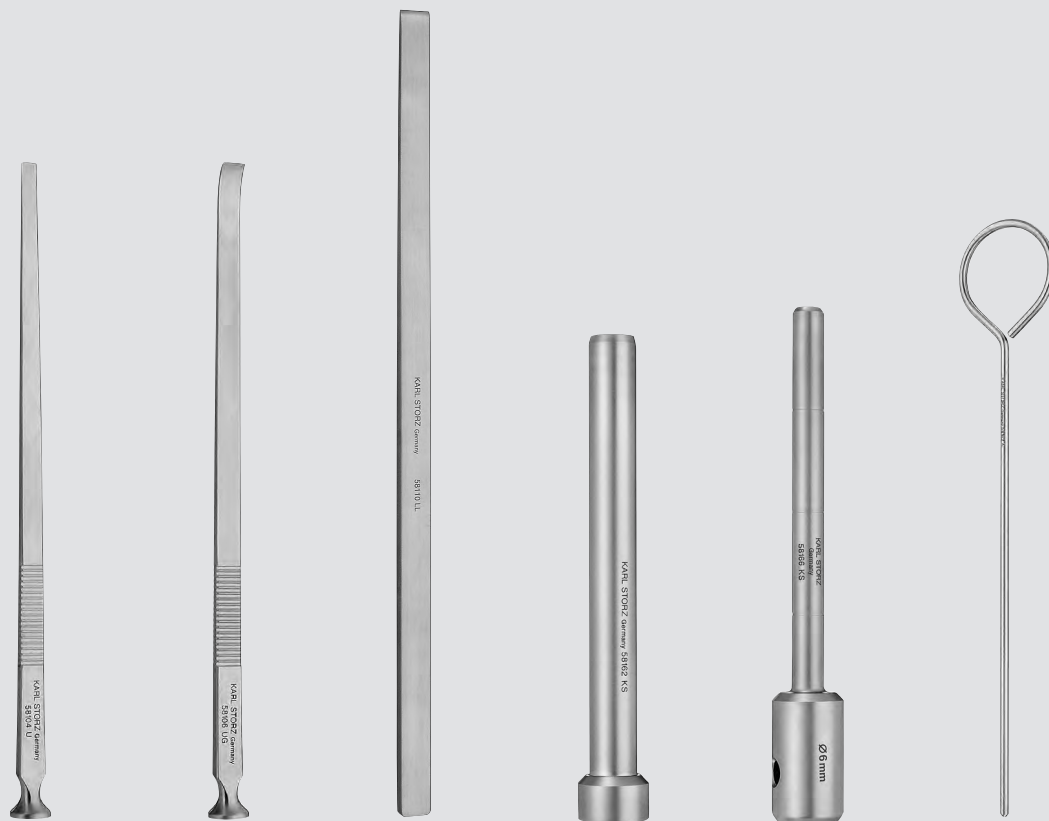
LAMBOTTE **Osteotome**, width 6 mm,
length 18.5 cm
- 58108 L

Same, width 8 mm
- 58110 L

Same, width 10 mm
- 58100

Septum Osteotome, width 4 mm,
length 18.5 cm

Osteotomes, Corticalis Punch, ^{NEW} Cylinder Osteotomes



58104 U

58106 UG

58110 LL

58162 KS

58166 KS

58162 A

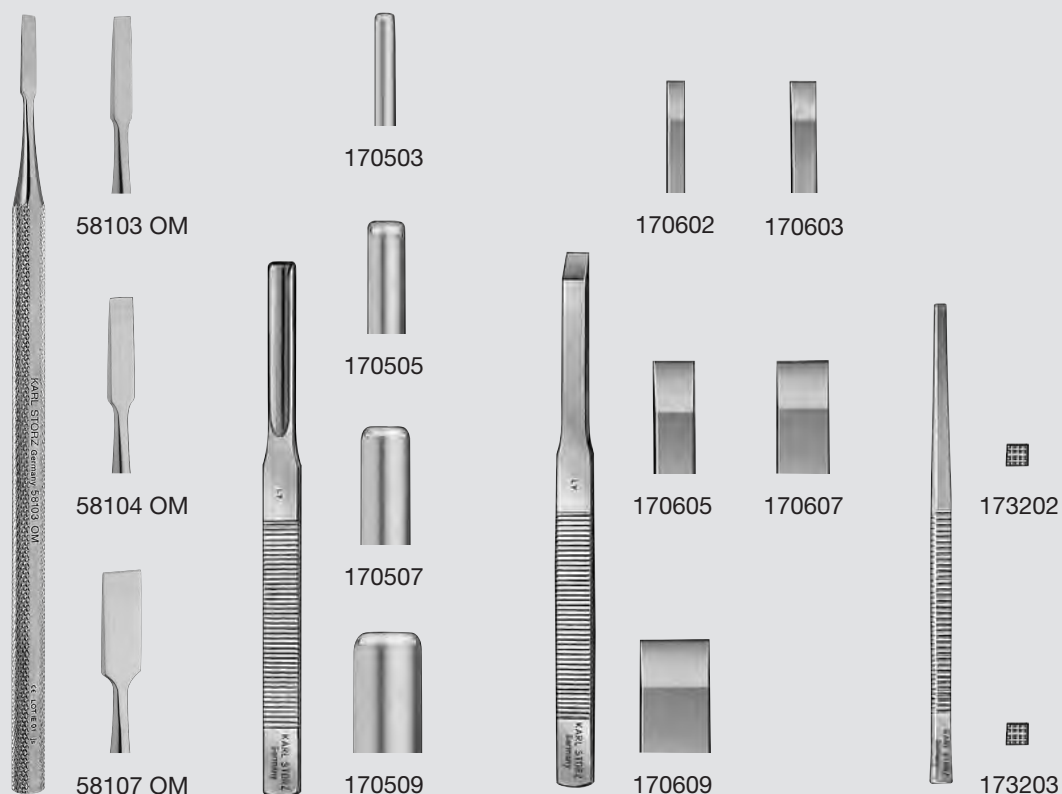
- 58104 U **Osteotome**, straight, width 4 mm, length 17.5 cm
- 58106 U **Same**, width 6 mm
- 58108 U **Same**, width 8 mm
- 58106 UG **Osteotome**, curved, width 6 mm, length 17.5 cm
- 58108 UG **Same**, width 8 mm
- 58110 LL LAMBOTTE **Osteotome**, width 10 mm, length 24.5 cm
- 58115 LL **Same**, 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

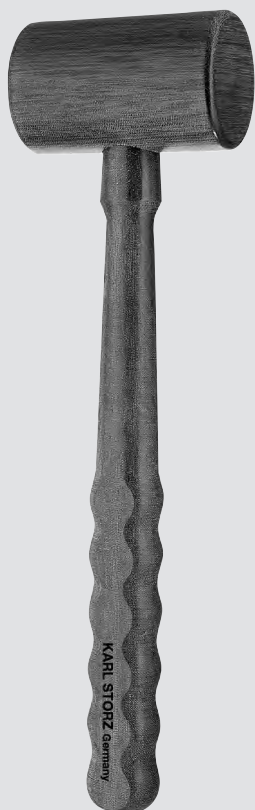


58100 LMH	LEXER Osteotome , hollow, width 10 mm, length 18.5 cm
58100 LMG	Same , width 20 mm
58104 LM	LEXER Osteotome , flat, width 4 mm, length 18.5 cm
58106 LM	Same , width 6 mm
58108 LM	Same , width 8 mm
58110 LM	Same , width 10 mm
58112 LM	Same , width 12 mm
58115 LM	Same , width 15 mm



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



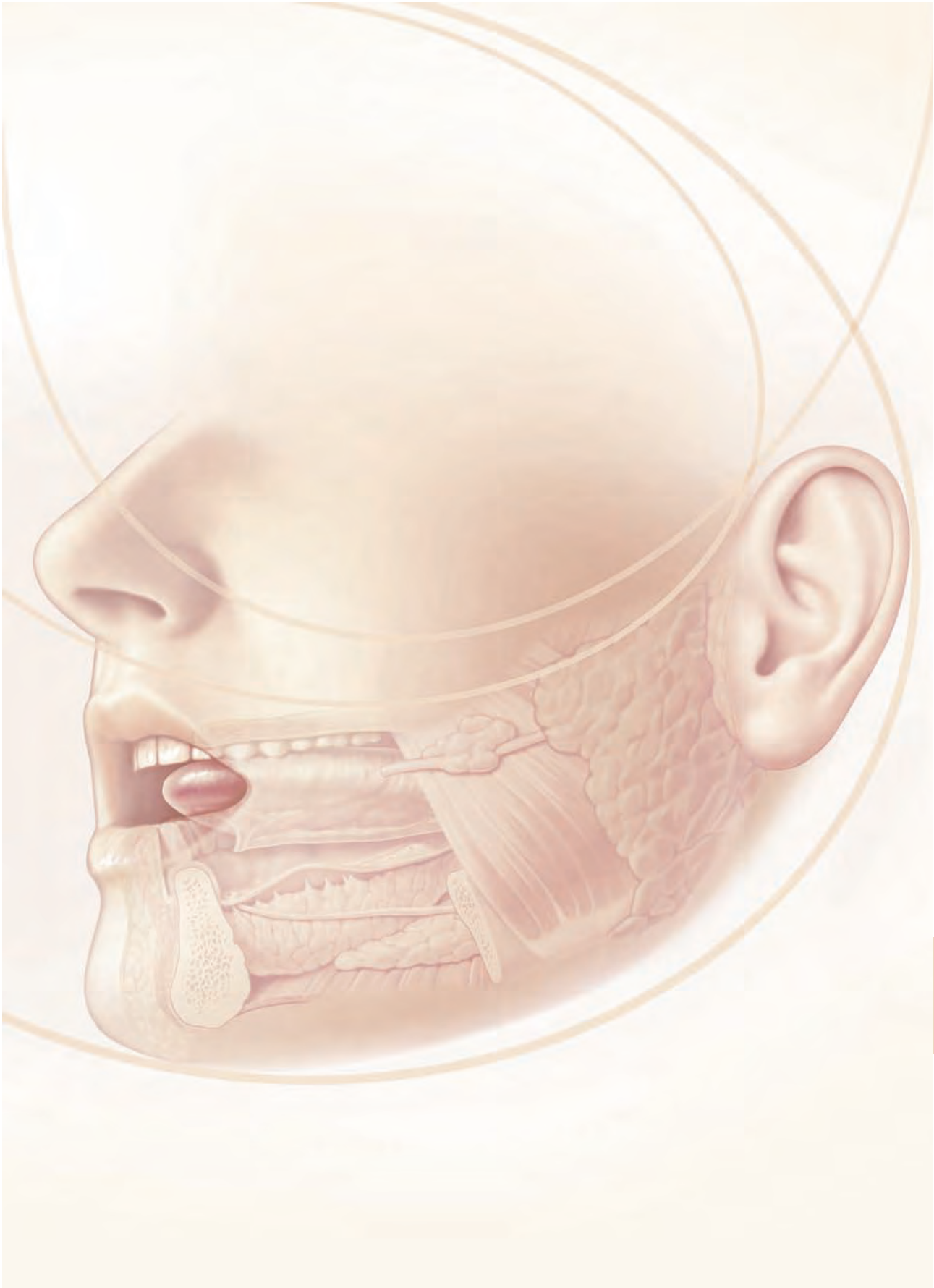
174700

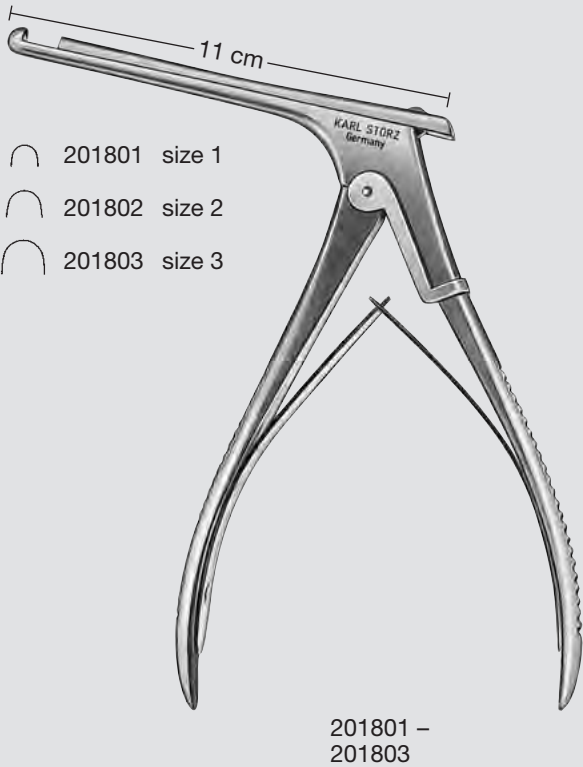


174800

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

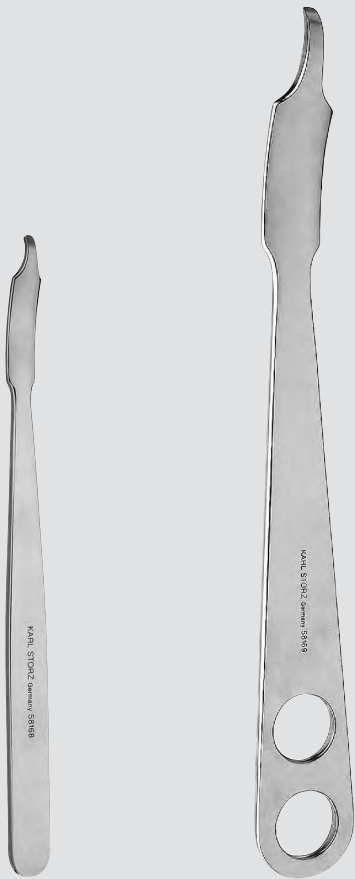


58160 KD



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

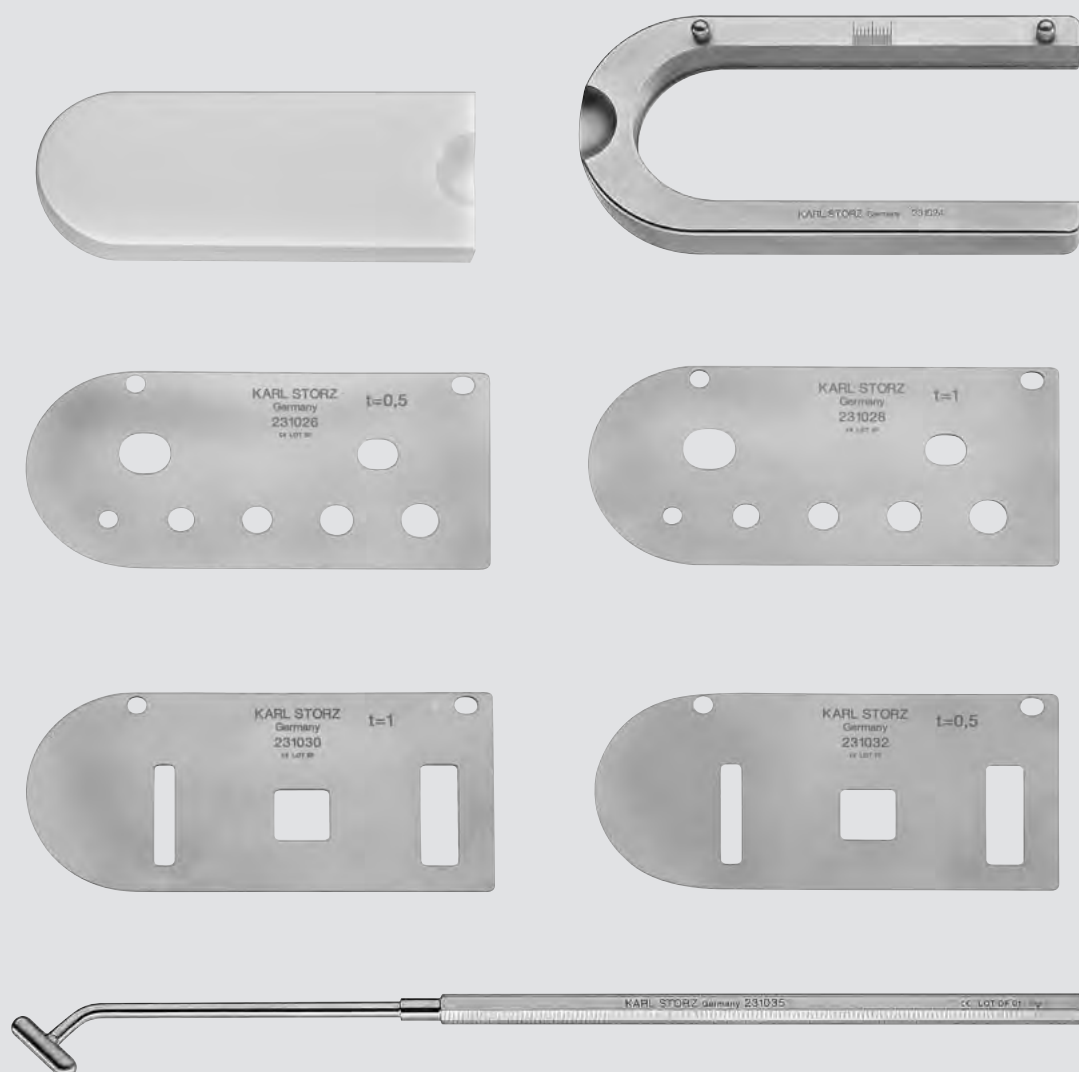


58168

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 30 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

Components/Spare Parts see chapter 16

Preparation Plates/Cutting Blocks



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

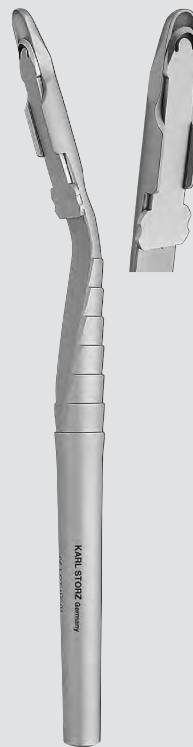
Bone Mills/Scrapers ^{NEW}



58900 KM



58974



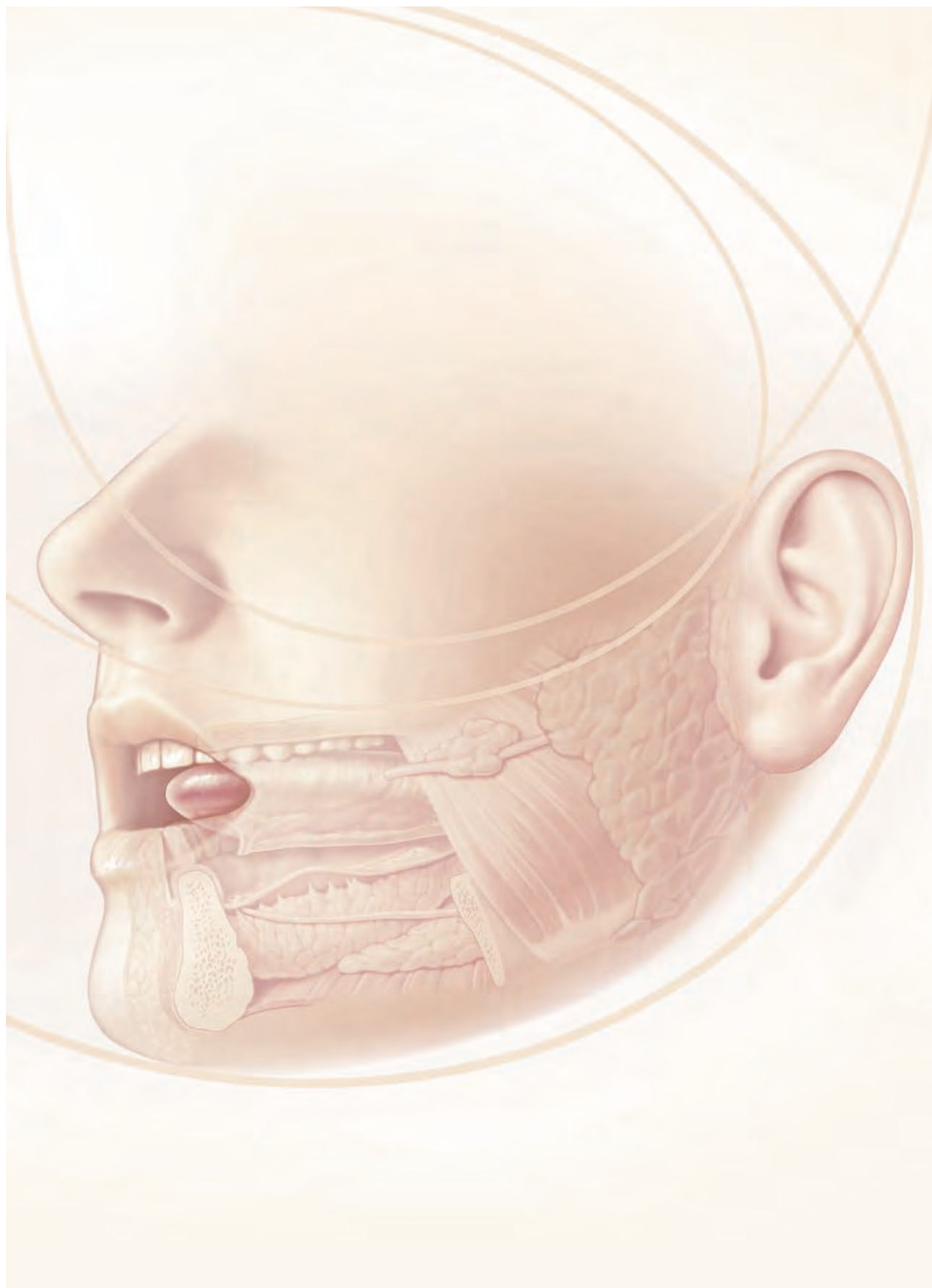
58974 G

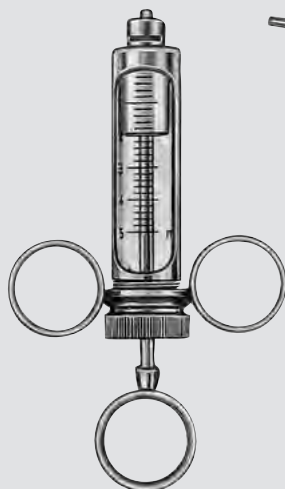


58954

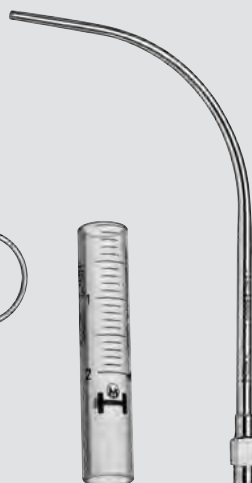
58900 KM	Bone Mill, for the comminution of autologous bone material including: Cleaning Instruments Metal Tray, with compartments and lid KIRSCH Curette, sinus 7, size 8 x 10 mm
58974	Bone Scraper, straight, diameter 10 mm, reusable
58974 G	Bone Scraper, converse curve 20°, diameter 10 mm, reusable
58954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

Components/Spare Parts see chapter 16





810002 –
810010



810102 –
810110



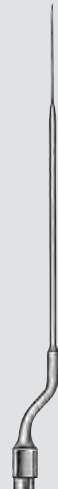
771506



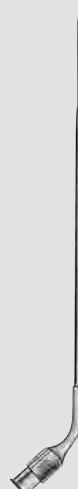
810502



810503



810505



810506



58999



820517 –
820527



810802



810805



810806



810810 – 810840

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

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

NEW

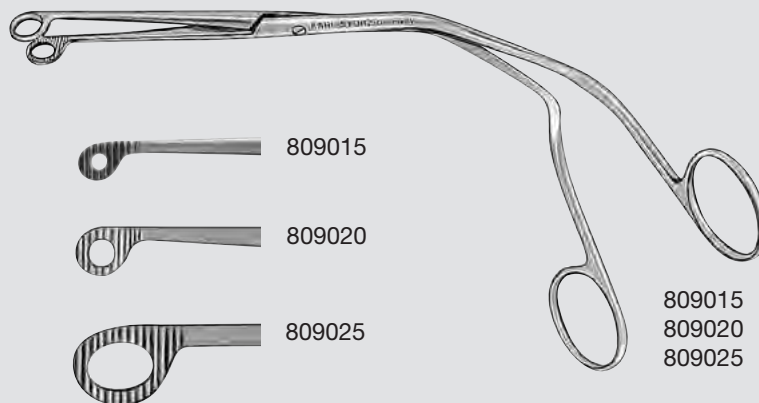
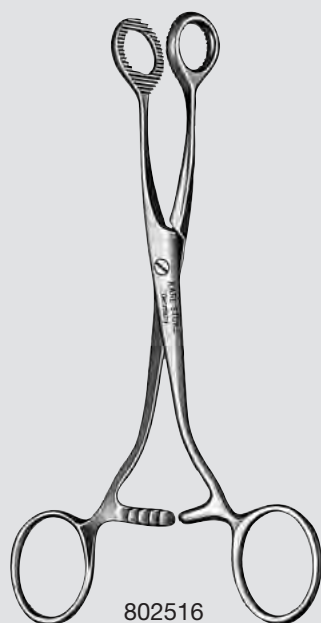
815413

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



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

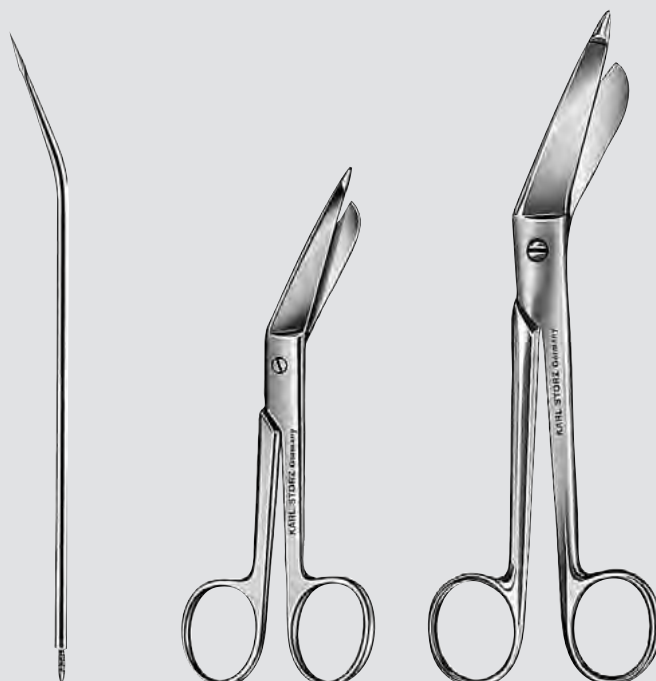
748220
748226

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

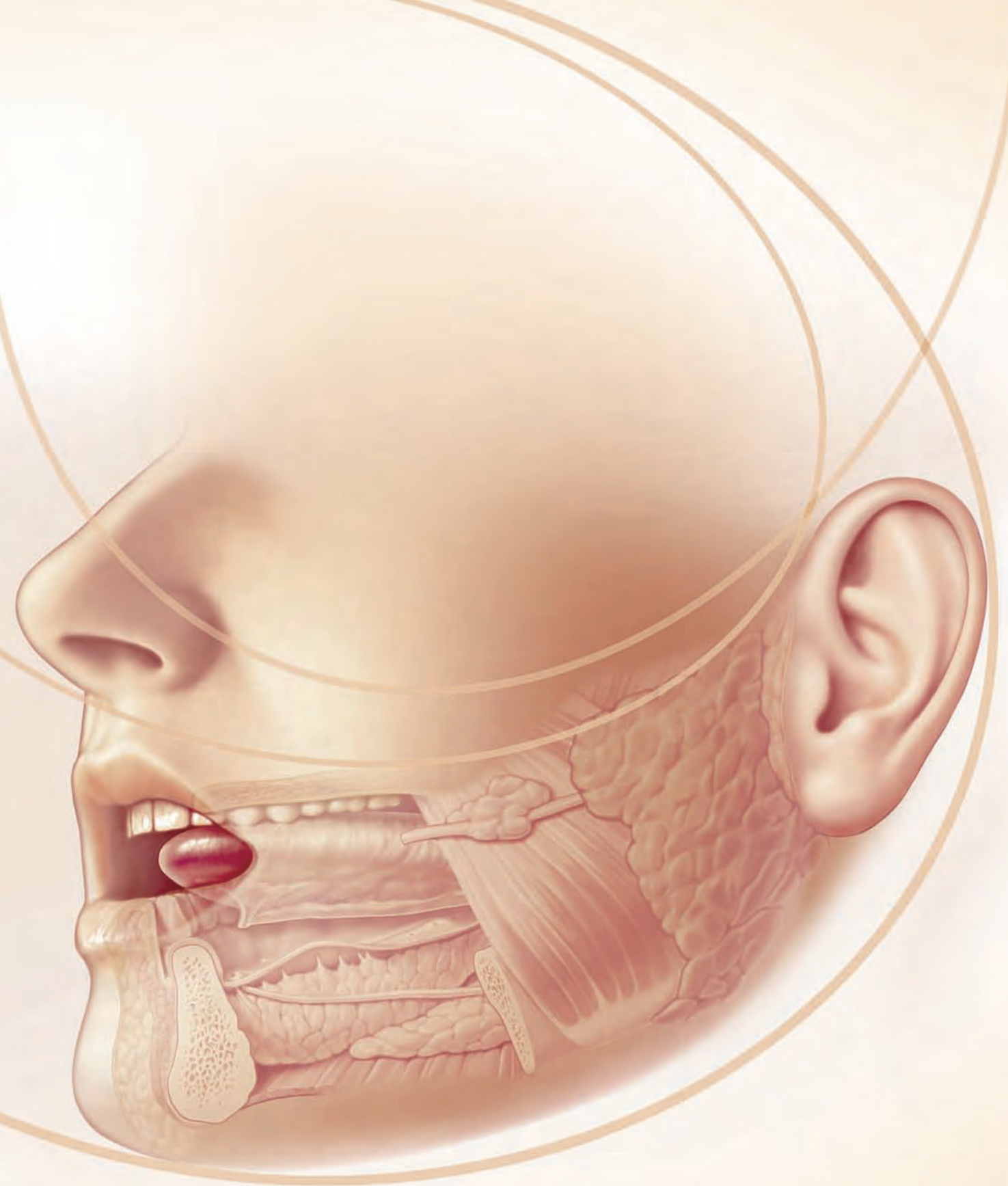
Same, 14 Fr.

797514

LISTER Bandage Scissors, length 14 cm

797518

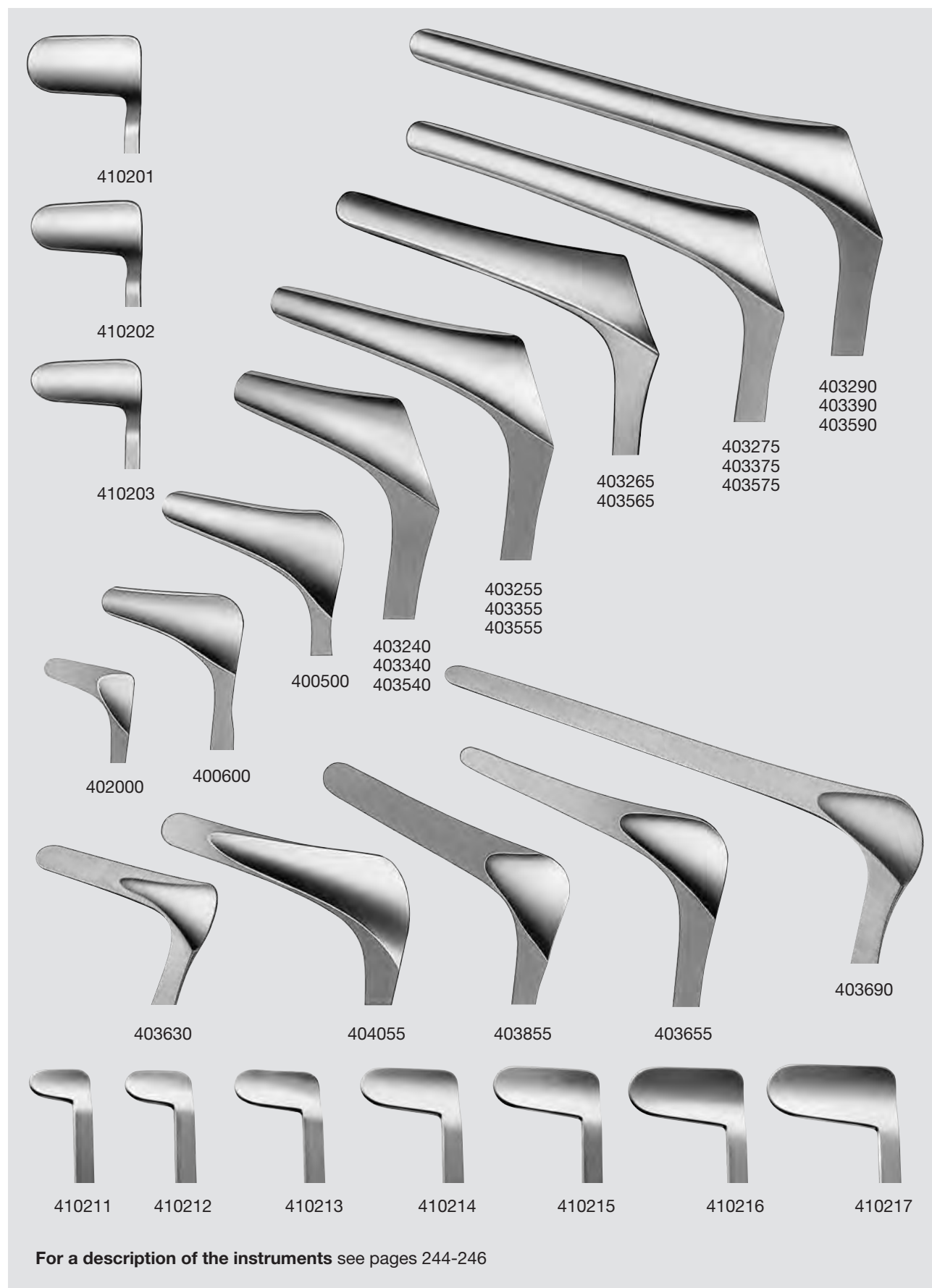
Same, length 18 cm



INSTRUMENTS FOR RHINOLOGY AND RHINOPLASTY

Nose

Instruments for Rhinology and Rhinoplasty



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



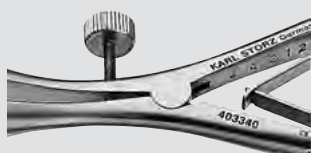
403340 –
403390



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

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



403630 –
403690



403835 –
403890



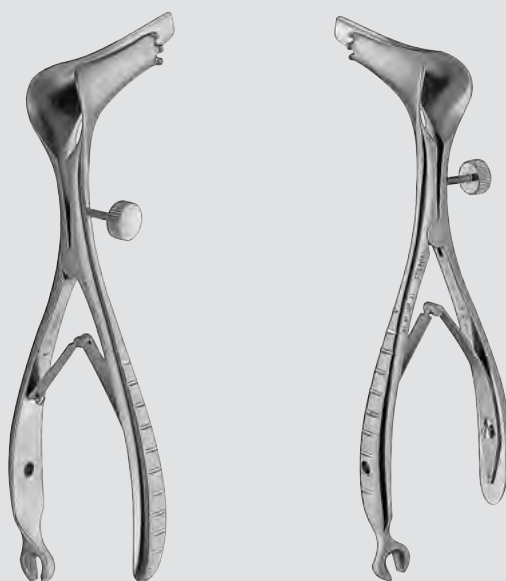
404040 –
404055

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



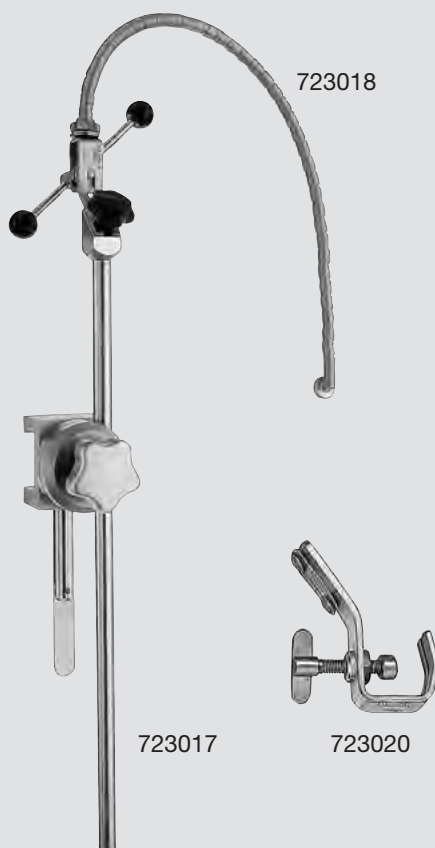
404455 –
404475

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



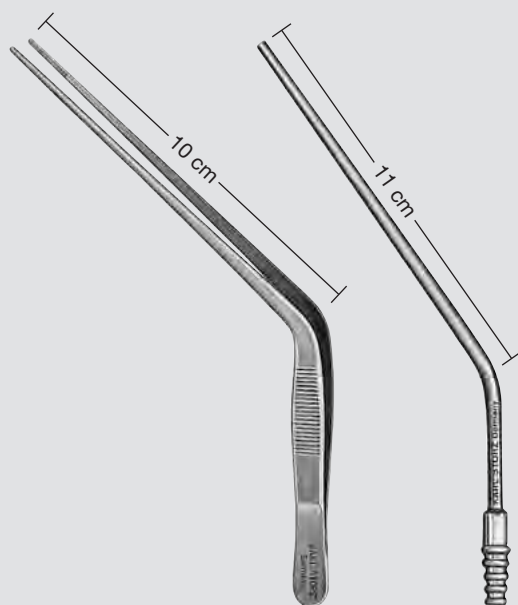
420000



423700



426516
426620



426900

203835

416800

Nasal Probe, curved, working length 11 cm, total length 18 cm

417013

Cotton Applicator, standard model, triangular, serrated, diameter 1.3 mm, length 15 cm

417017

Same, diameter 1.7 mm

417217

ZIEGLER Cotton Applicator, with thread, diameter 1.7 mm, length 17.5 cm

417600

FROHN Cotton Applicator, twisted end, length 16 cm

420000

SIEBENMANN Gauze Applicator, length 18 cm

423700

REUTER Epistaxis Balloon Catheter, sterile

426516

JANSEN Nasal Dressing Forceps, bayonet-shaped, length 16.5 cm

426620

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

426900

TRÖLTSCH Nasal Dressing Forceps, angular, working length 10 cm

203835

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

Nose

Instruments for Rhinology and Rhinoplasty

428001 428002 11 cm

430300 10.5 cm

430500 8 cm

12.5 cm

634822 634824

430600 10.5 cm

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

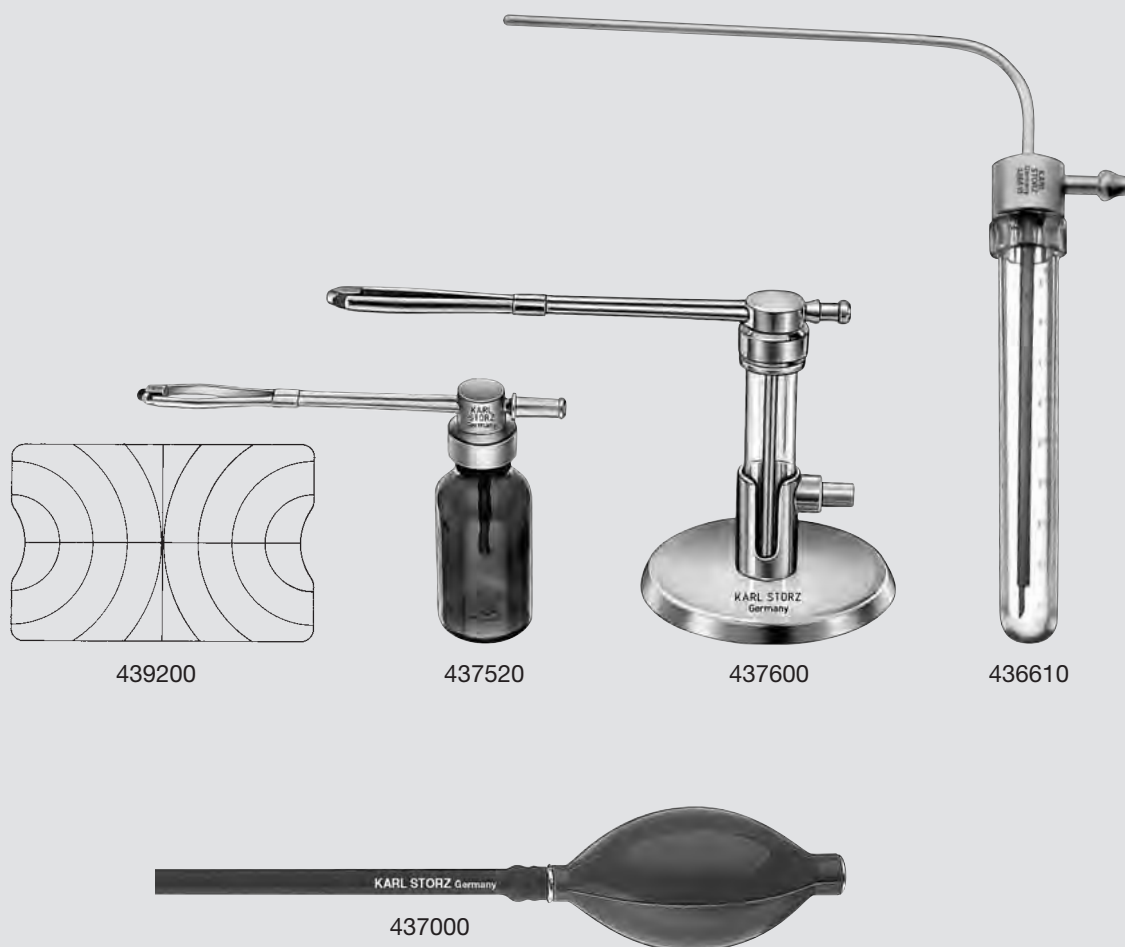
430600 WEST Nasal Dressing Forceps, extra light model, serrated, working length 10.5 cm

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

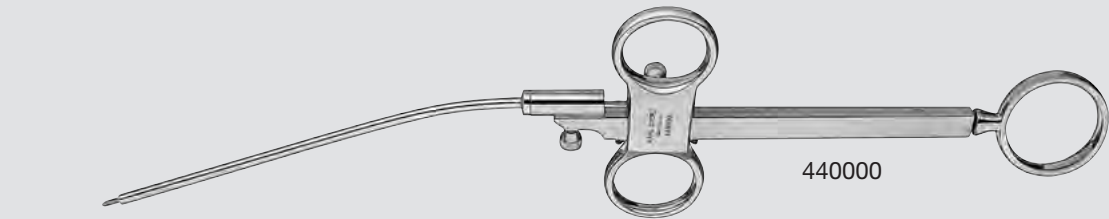


- 436610 **Nasal Atomizer**, straight, including graduated Container 10455 for local anaesthetic, for use with Rubber Bulb 437000
- 437000 **Rubber Bulb**, for Nasal Atomizer 436610, latex-free
- 437520 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb and large bottle
- 437600 DE VILBIS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

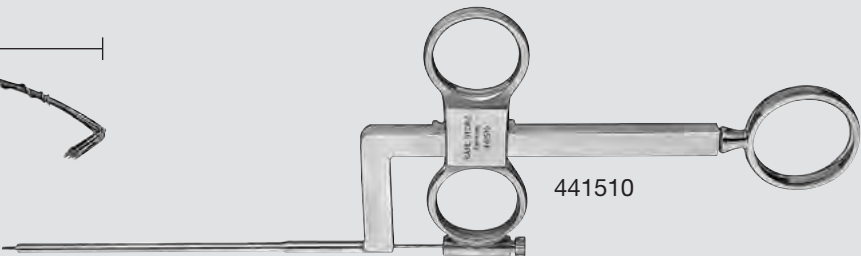
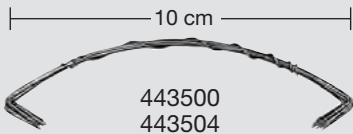
Components/Spare Parts see chapter 16

Nose

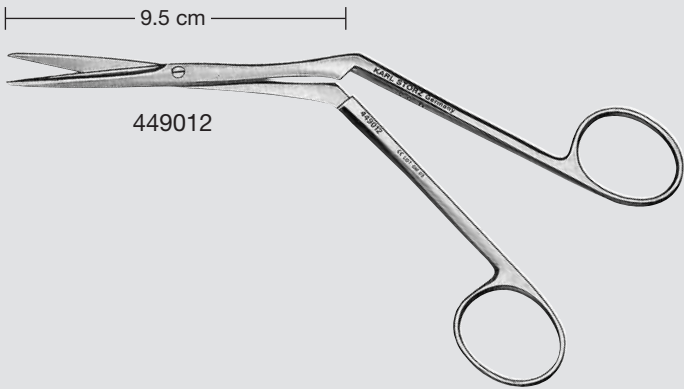
Instruments for Rhinology and Rhinoplasty



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

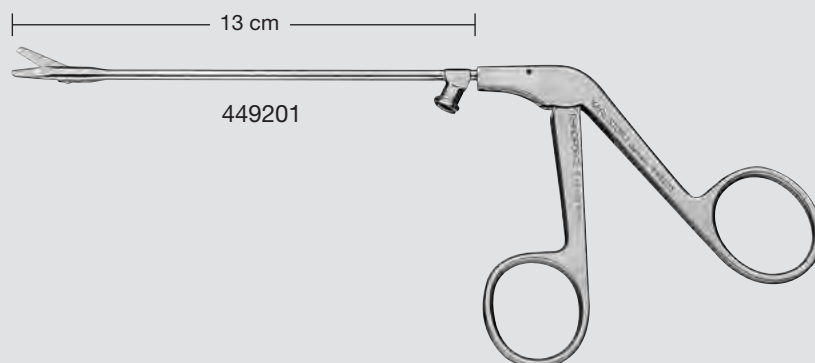


449001 HEYMANN **Nasal Scissors**, small, working length 9 cm
449001 L **Nasal Scissors**, small, curved left, working length 9 cm
449002 HEYMANN **Nasal Scissors**, medium (standard model), working length 9.5 cm
449003 HEYMANN **Nasal Scissors**, large, working length 11 cm
449012 HEYMANN **Nasal Scissors**, 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



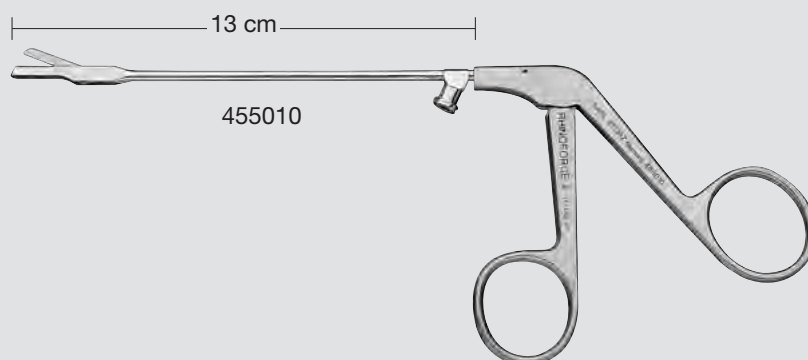
449204

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



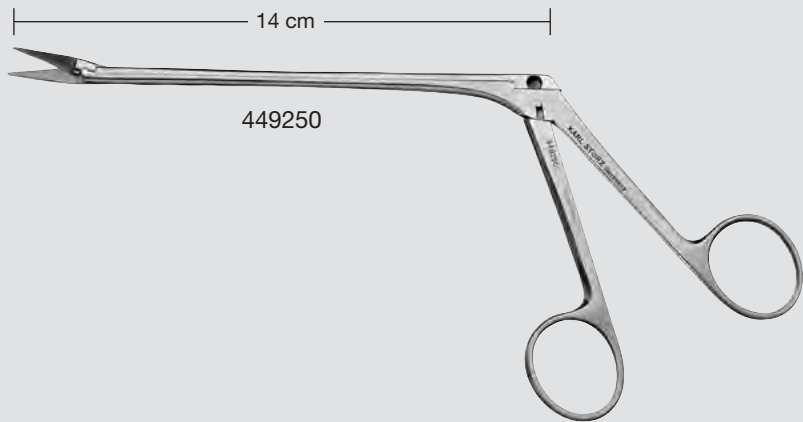
455010

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



Nose

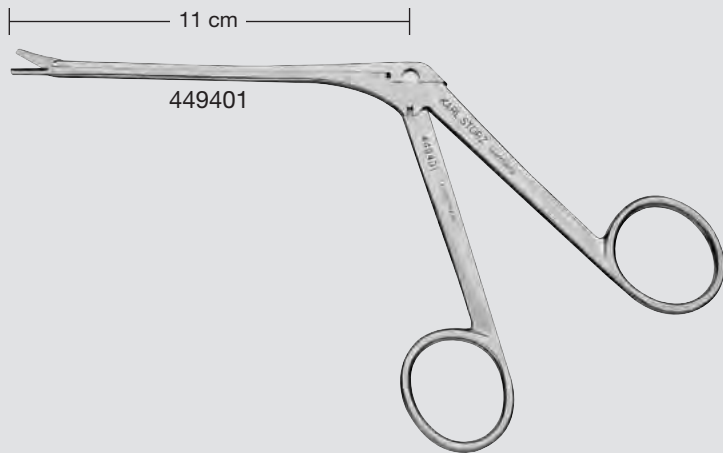
Instruments for Rhinology and Rhinoplasty



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



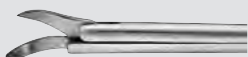
449251 **Same, small model, cutting length 12 mm, working length 12 cm**



449401 **Nasal Scissors, straight, slender model, serrated, cutting length 10 mm, working length 11 cm**



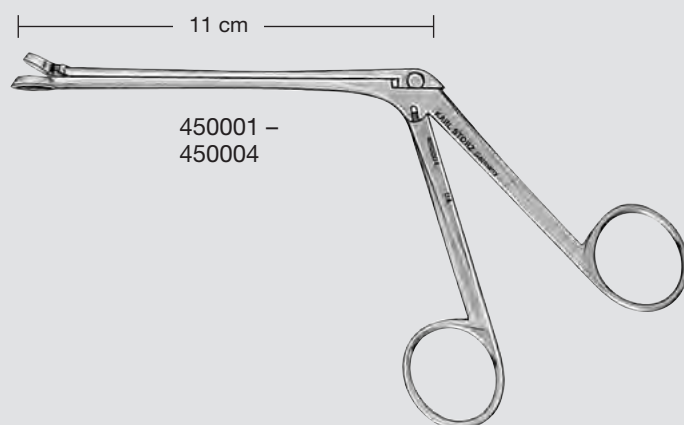
449402 **Same, curved to right**



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

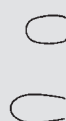


453501

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

453502

Same, size 2



453711

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

453712

Same, without basket, size 2



454001

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

454002

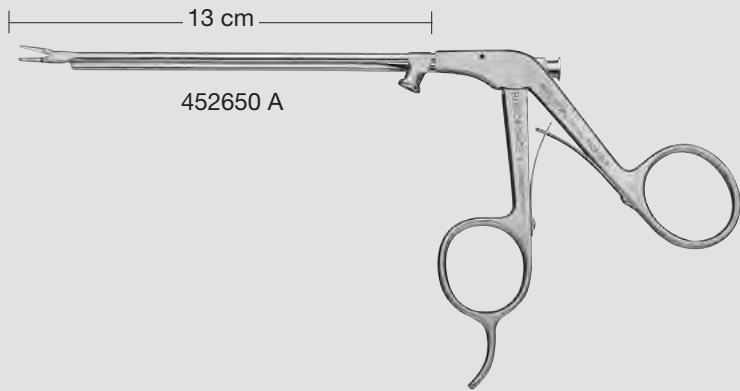
Same, size 2

454003

Same, size 3

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



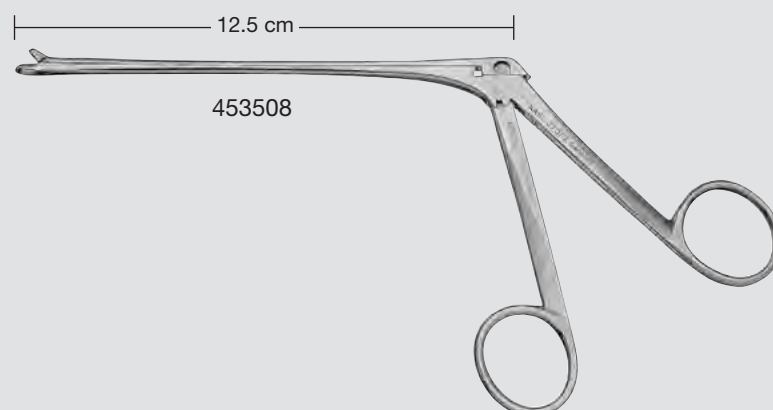
452650 C **Same**, jaws angled to the right



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

Nose

Instruments for Rhinology and Rhinoplasty



453508

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



453508 K

Same, with foreign body basket



453710

Same, 45° upturned



453509

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



453510

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



453511

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



453721

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



453722

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



453723

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

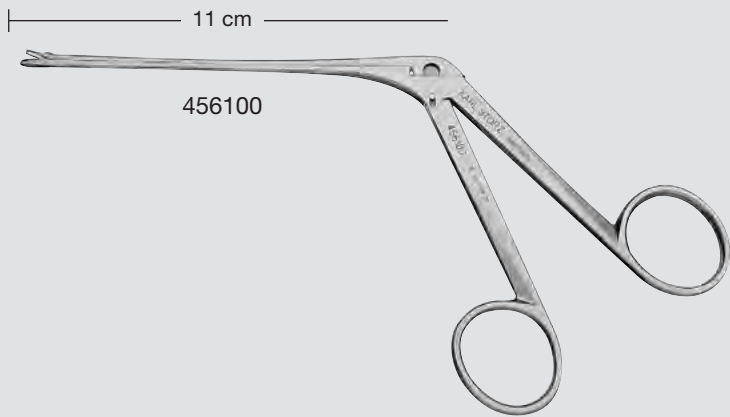


453724

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

Nose

Instruments for Rhinology and Rhinoplasty



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



456101 **Same**, width 3.5 mm



456102 **Same**, width 4.2 mm



456103 **Same**, width 4.8 mm



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



456111 L **Same**, curved to left



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



456121 **Same**, width 3.5 mm



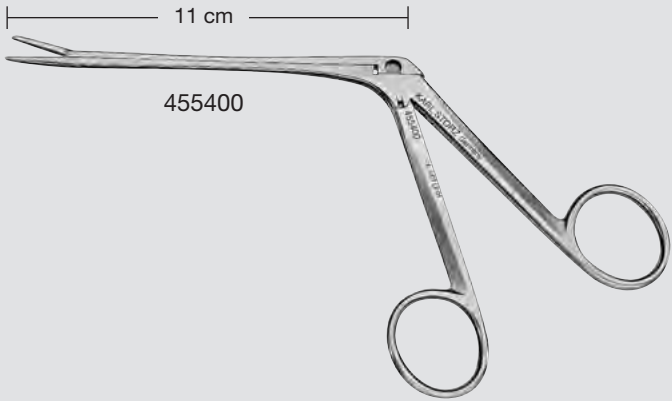
456122 **Same**, width 4.2 mm



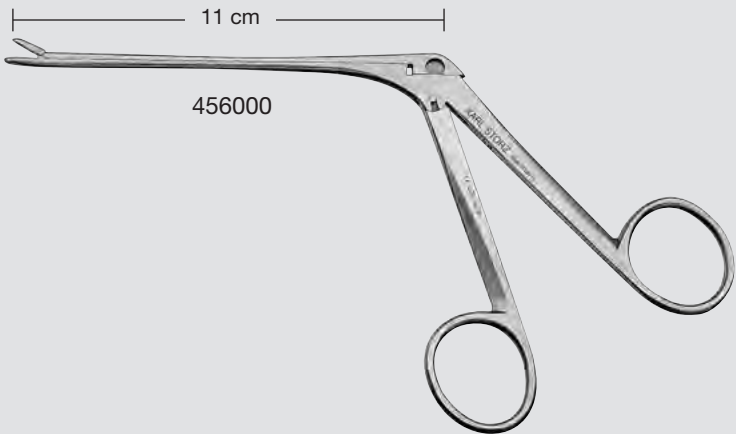
456123 **Same**, width 4.8 mm

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



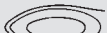
456001 L **Same**, size 1, working length 15 cm



456002 BLAKESLEY **Nasal Forceps**, straight,
size 2, working length 11 cm



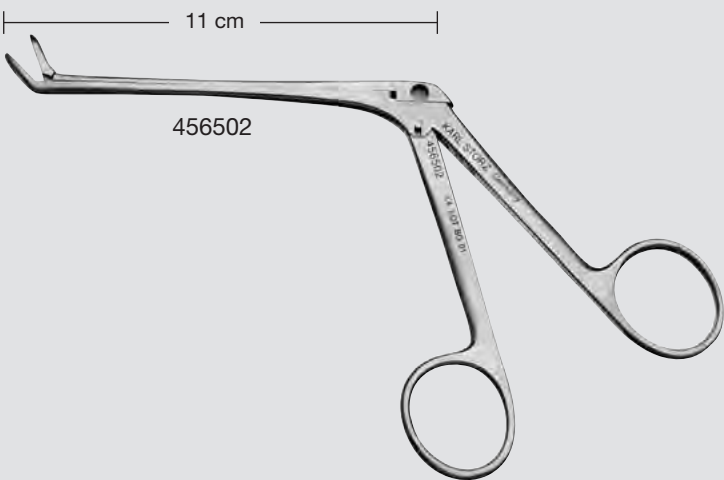
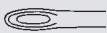
456003 **Same**, size 3



456004 **Same**, size 4

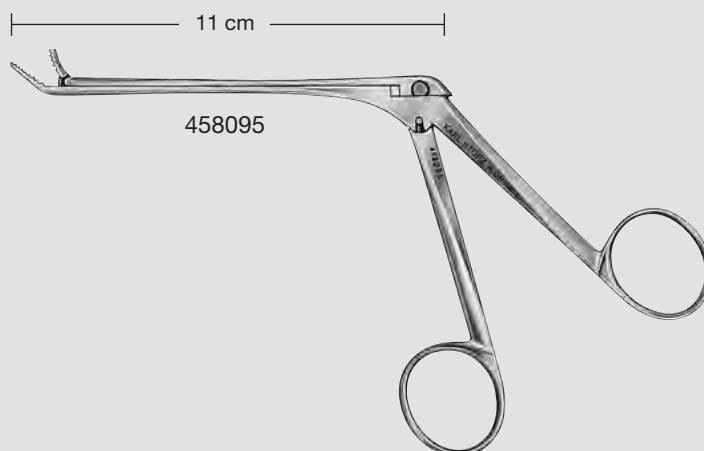
Nose

Instruments for Rhinology and Rhinoplasty

		456502		
		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

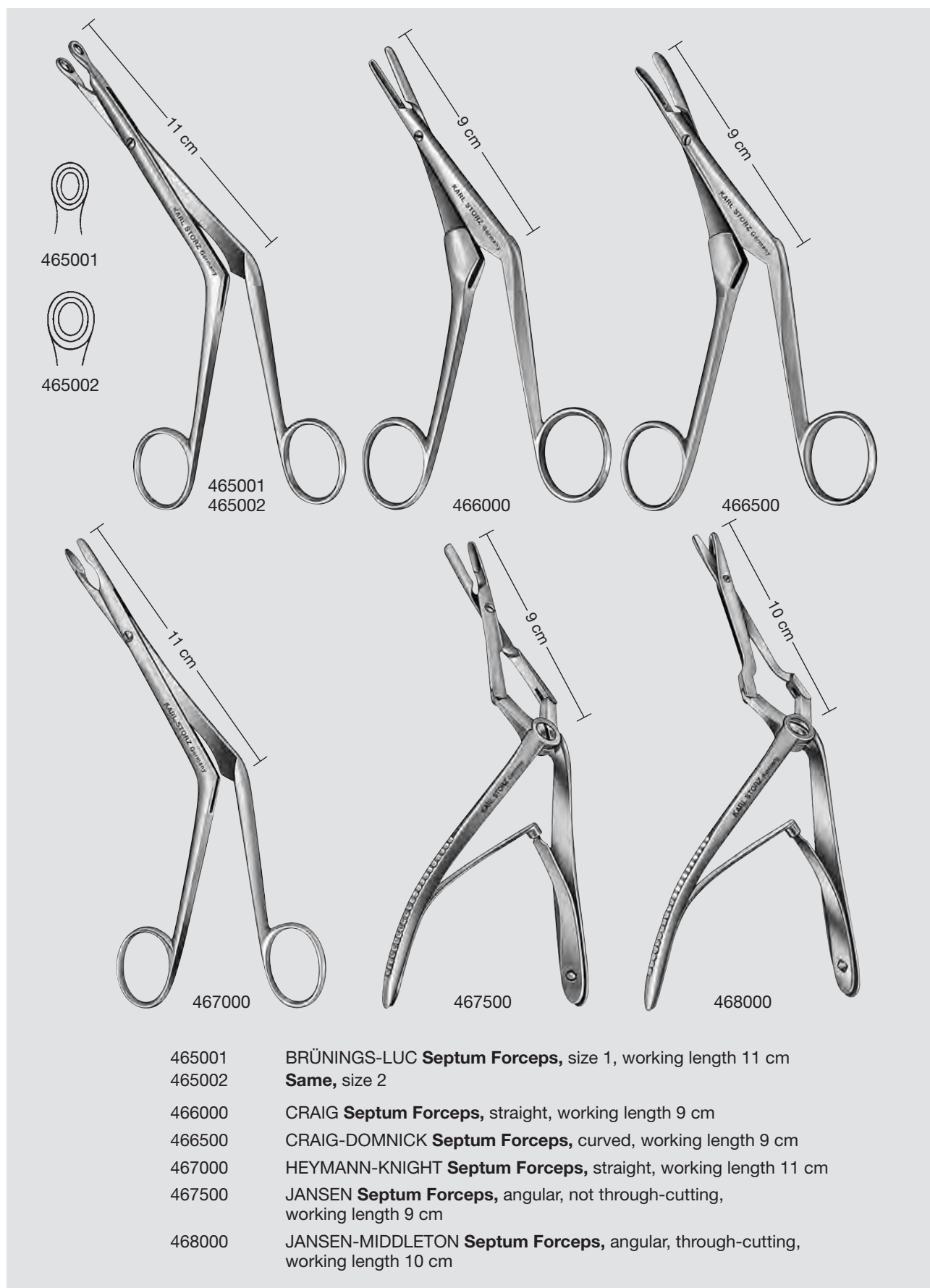


489045

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

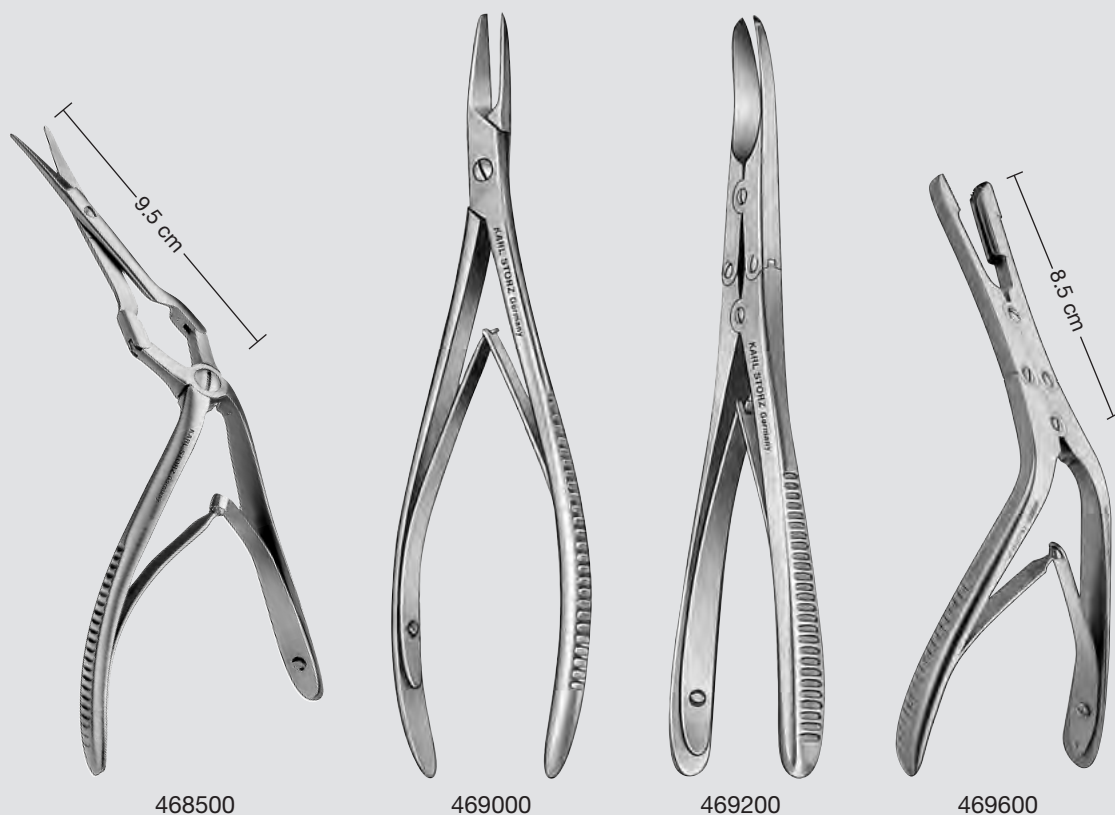
Nose

Instruments for Rhinology and Rhinoplasty



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

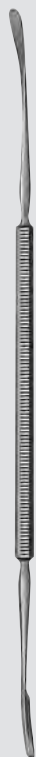
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7-071

Nose

Instruments for Rhinology and Rhinoplasty



474200



474205



474210

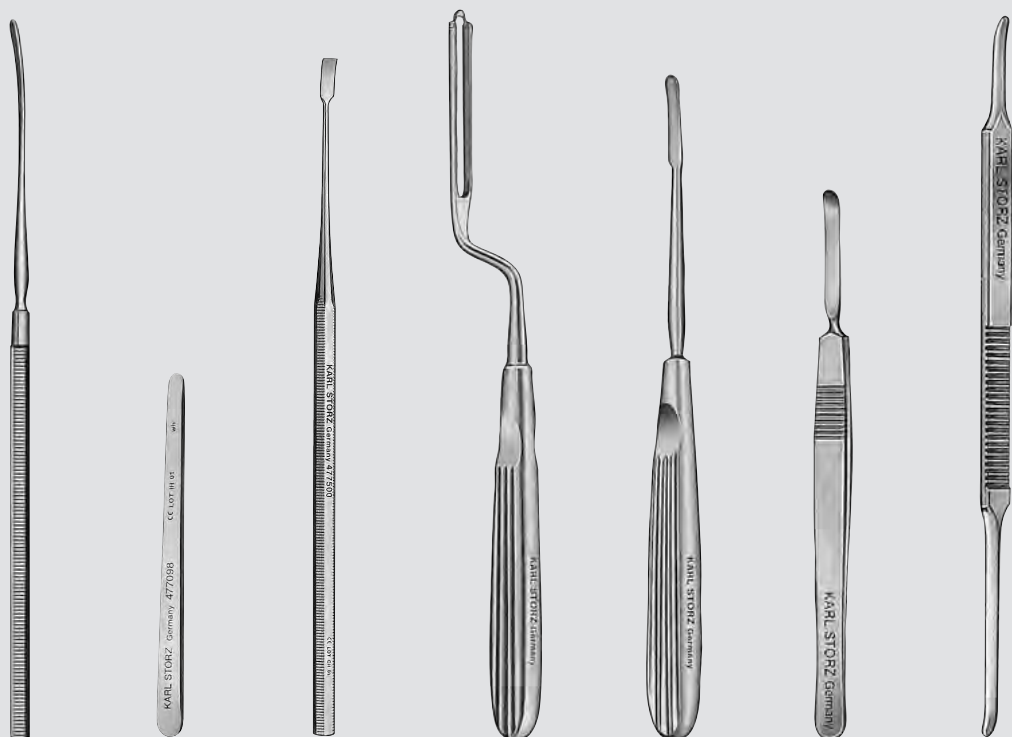


474519

- 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

174430

174700

174800

484003

484004

484003 – 484012

484006

484007

484009

484012

484106

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

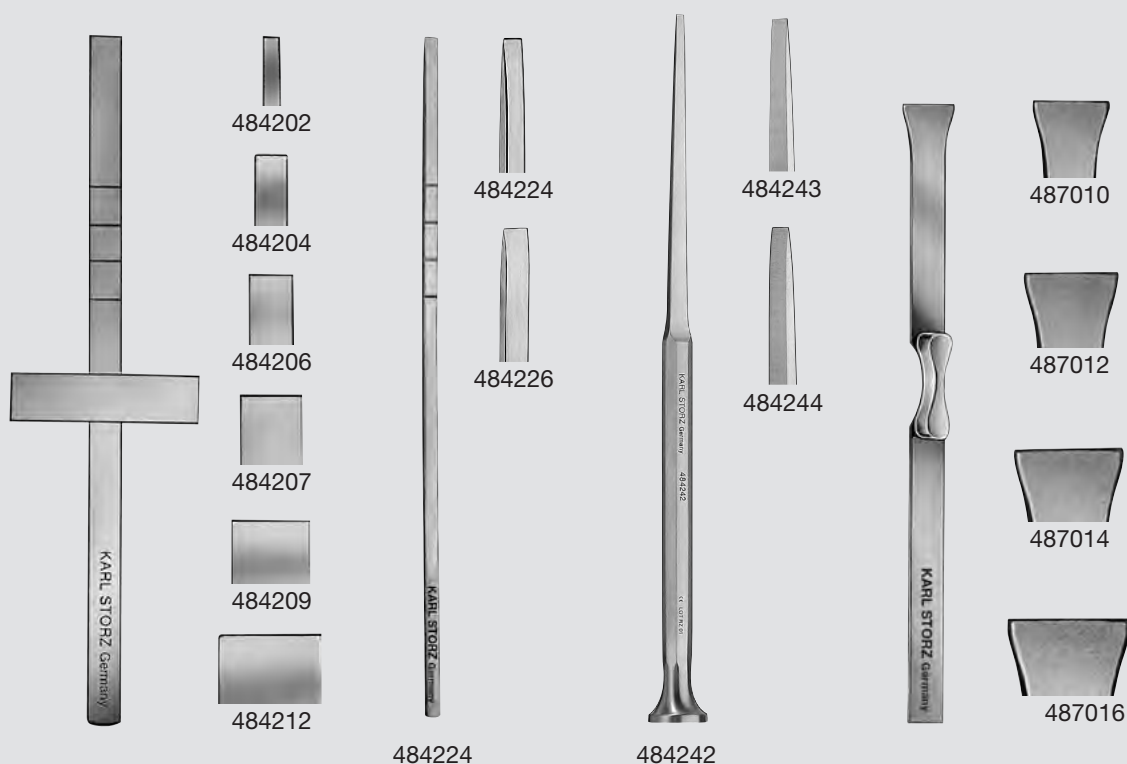
484012 **Same**, width 12 mm

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

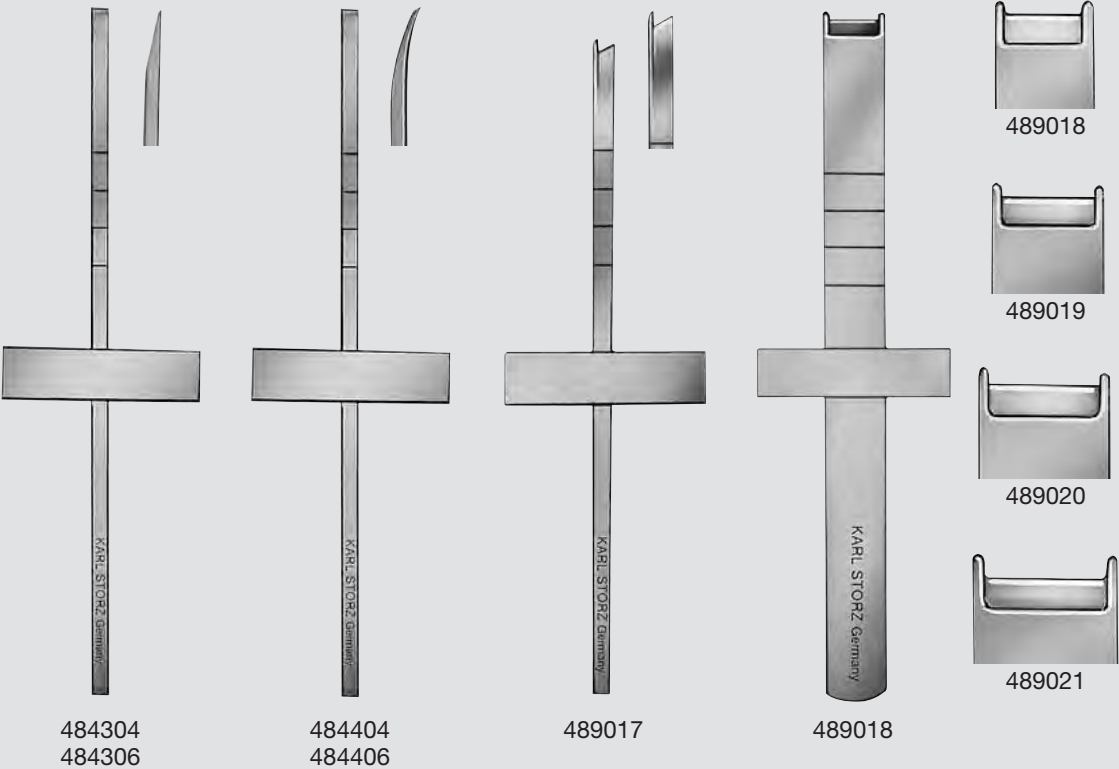
- 487012 **Same**, width 12 mm

- 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

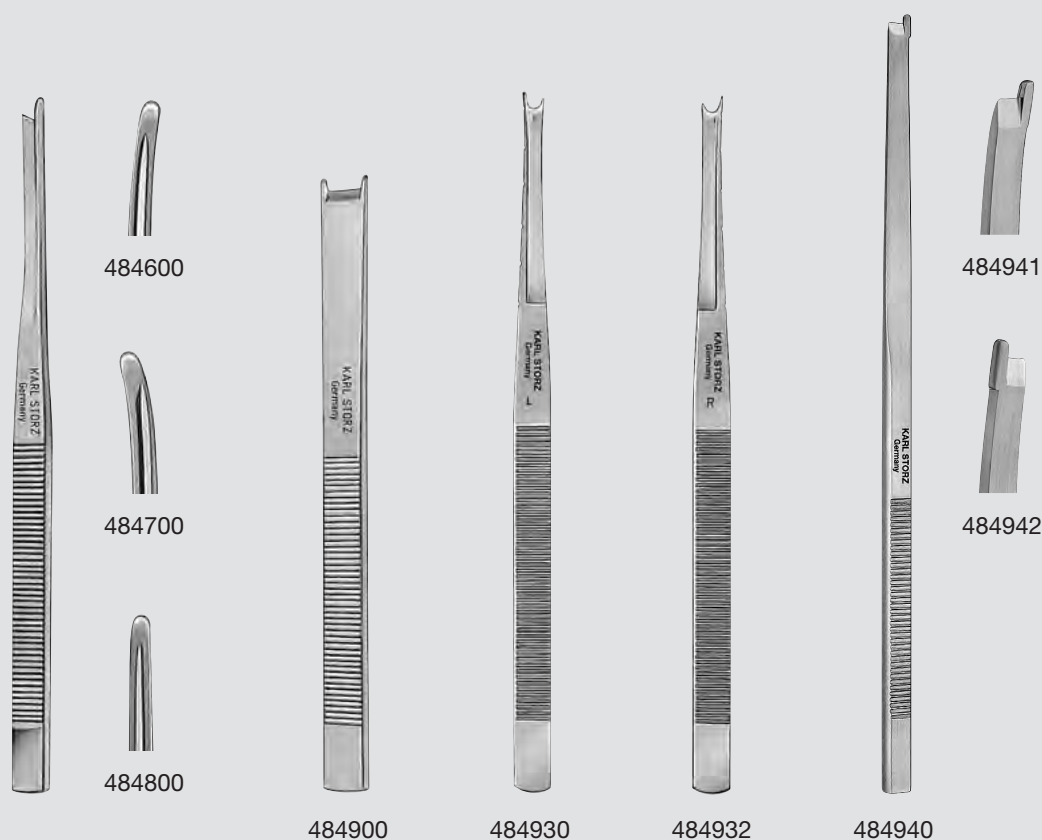
Same, width of cut 12 mm
- 489020

Same, width of cut 14 mm
- 489021

Same, width of cut 16 mm

Nose

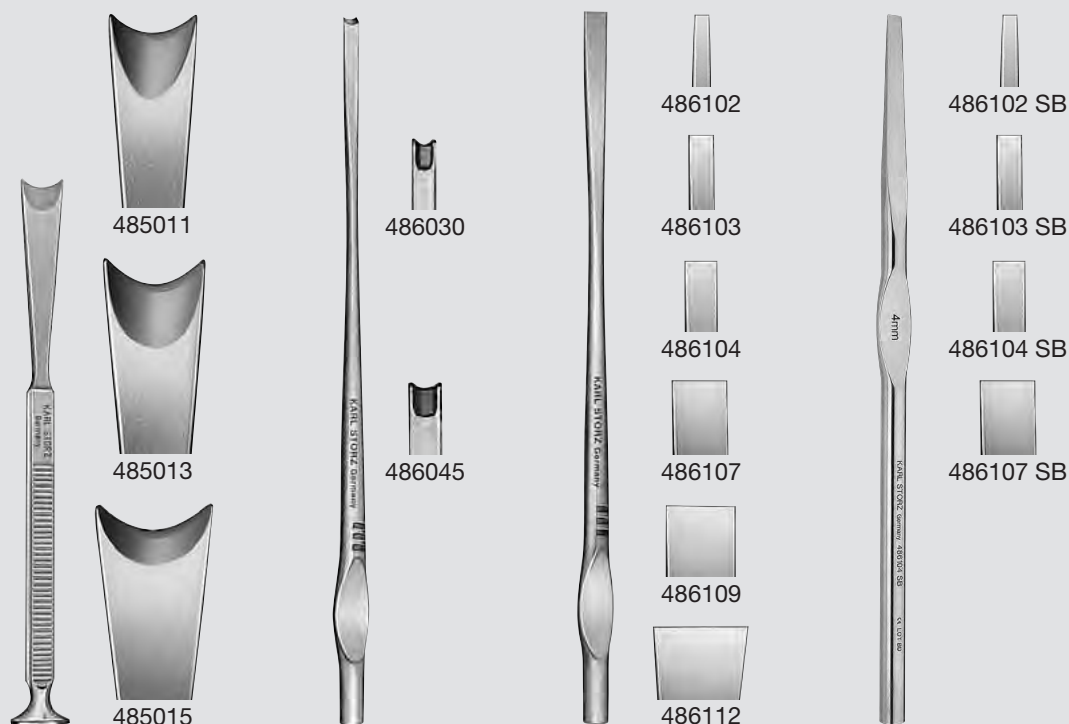
Instruments for Rhinology and Rhinoplasty



- 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

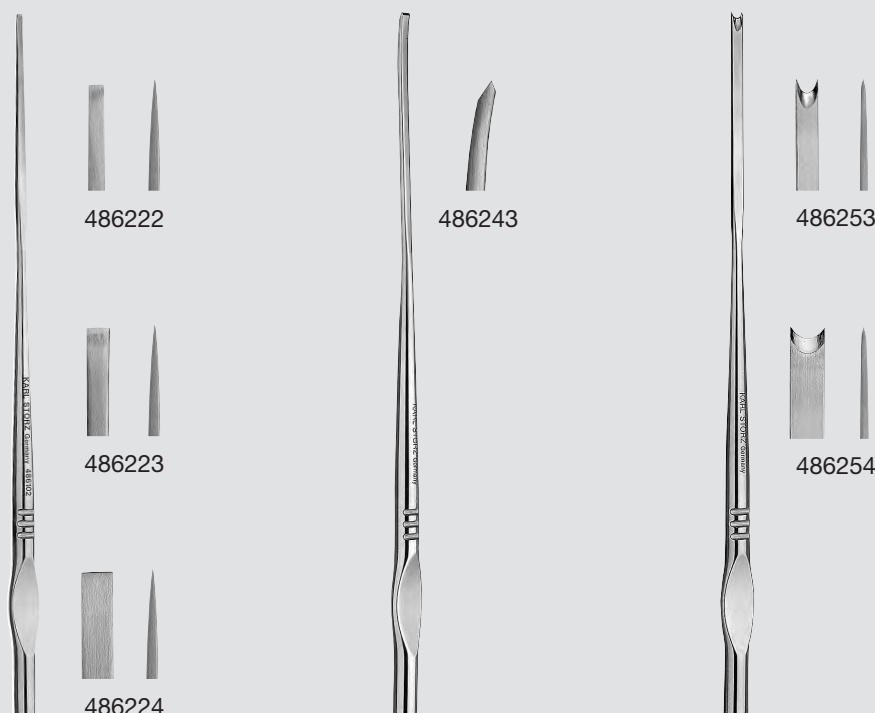
Instruments for Rhinology and Rhinoplasty



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

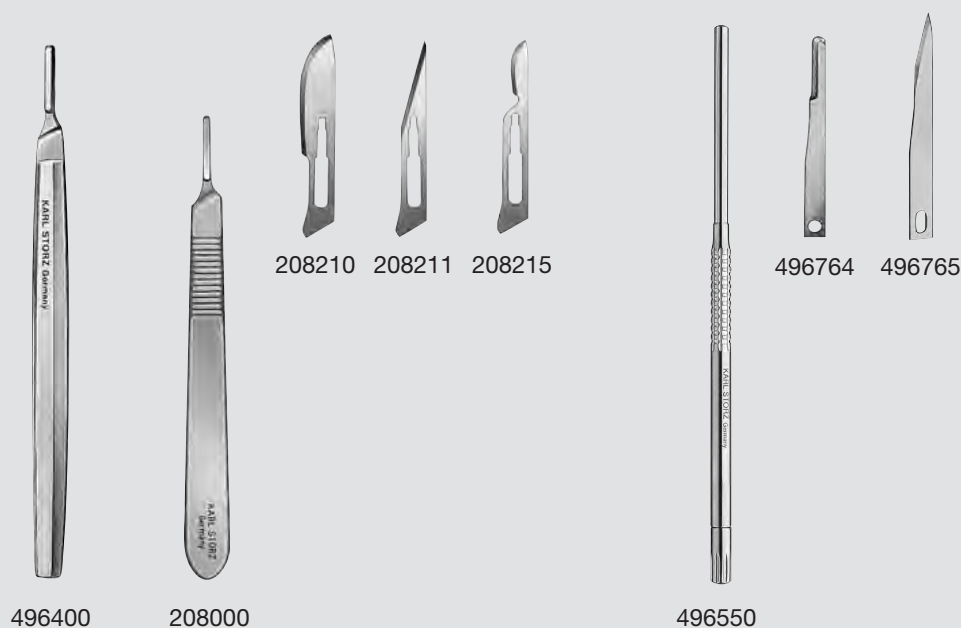


496900

- 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

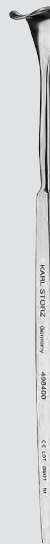
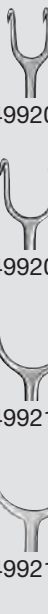
Instruments for Rhinology and Rhinoplasty



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

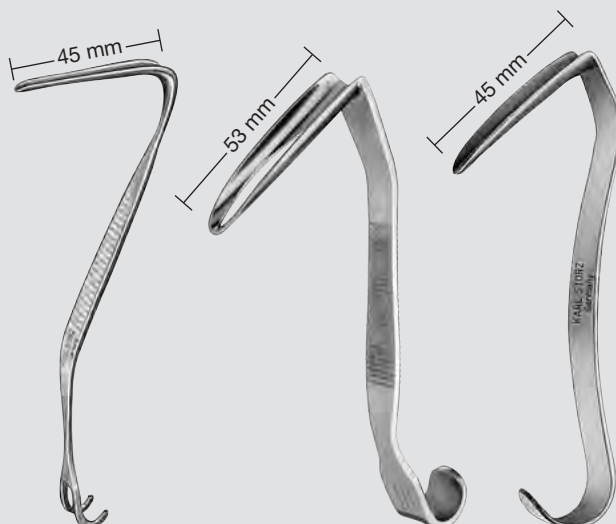
													
489028	489033	498000	498400	498401	499001 499111	499101	499201 – 499212		505000 505100	505210 – 505213	505900		
489028	COTTLE Retractor , with 4 prongs, blunt, length 15 cm					505000	COTTLE Retractor , two prongs, sharp prong on left, blunt prong on right, width 10 mm, length 14.5 cm						
489033	Hook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

Nose

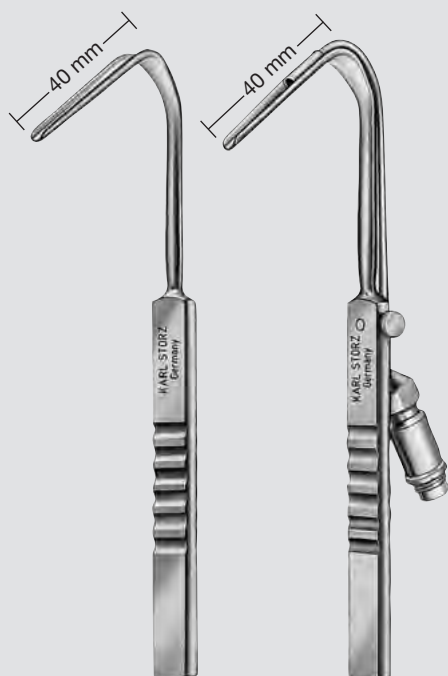
Instruments for Rhinology and Rhinoplasty



505600 505610 505700 505800 505805
505806



506000 506010 506020



506400 506496 506496

- 505600 SENN **Retractor**, double-ended, blunt, length 15 cm
- 505610 SENN-MÜLLER **Retractor**, double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm
- 505700 COTTLE **Knife Guide and Retractor**, one side with two-pronged nostril retractor, other side with flat retractor, with duct for guide of cut, length 19 cm
- 505800 NEIVERT **Knife Guide and Retractor**, made of wire, one side with nostril retractor, other side with flat retractor, length 18 cm
- 505805 RETTINGER-NEIVERT **Knife Guide and Retractor**, 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
- 505806 **Same**, width 17 mm
- 506000 WALTER **Nasal Retractor**, double-ended, one side with retractor, width of retractor blade 12 mm, length of retractor blade 45 mm, other side with two pronged retractor for nasal wings, length 12.5 cm
- 506010 FULEIHAN **Nasal Retractor**, blade oval fenestrated, width of retractor blade 12 mm, length of retractor blade 53 mm, length 10 cm
- 506020 RETTINGER **Nasal Retractor**, width of retractor blade 11.5 mm, length of retractor blade 45 mm, with flat handle, length 10 cm
- 506400 AUFRICHT **Nasal Retractor**, width of retractor blade 8 mm, length of retractor blade 40 mm, length 16.5 cm
- 506496 **Same**, with fiber optic light carrier

Components/Spare Parts see chapter 16

“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

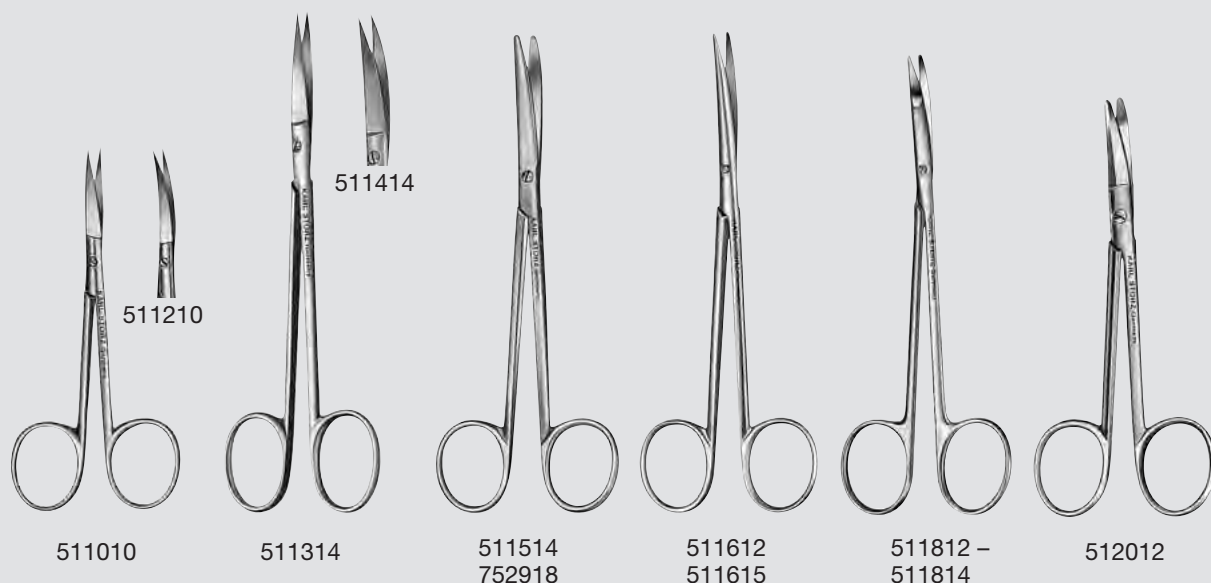
513410 DST **Same**, with titanium nitride coating, color code: copper

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

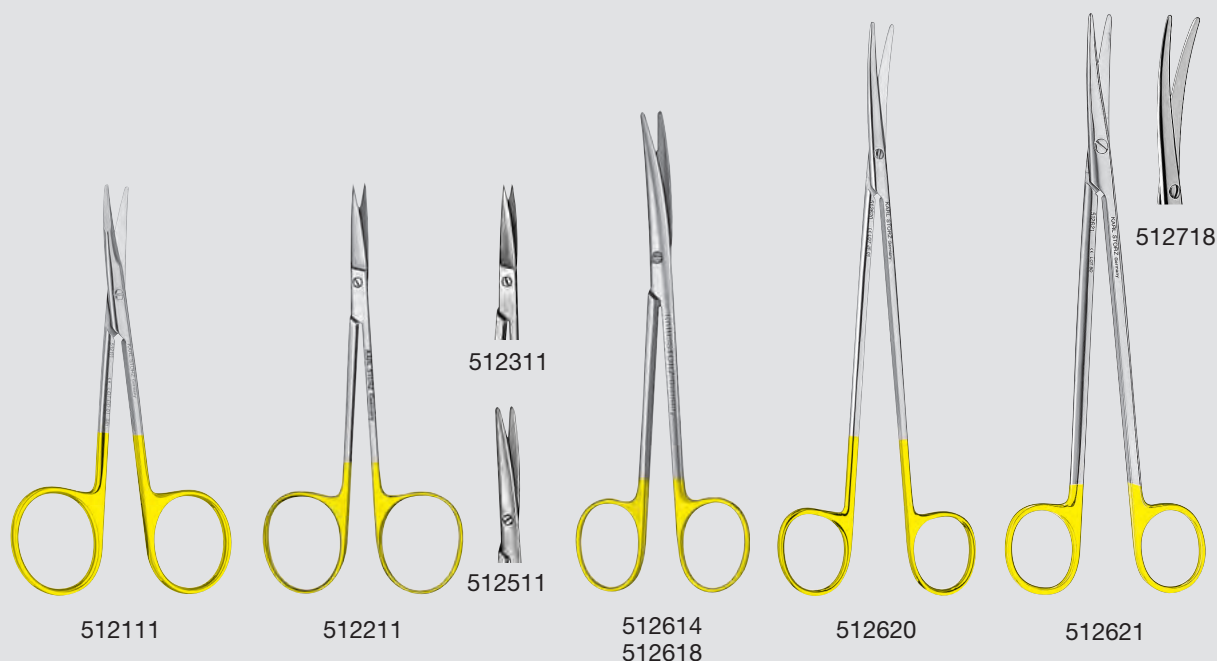
Instruments for Rhinology and Rhinoplasty



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

Nose

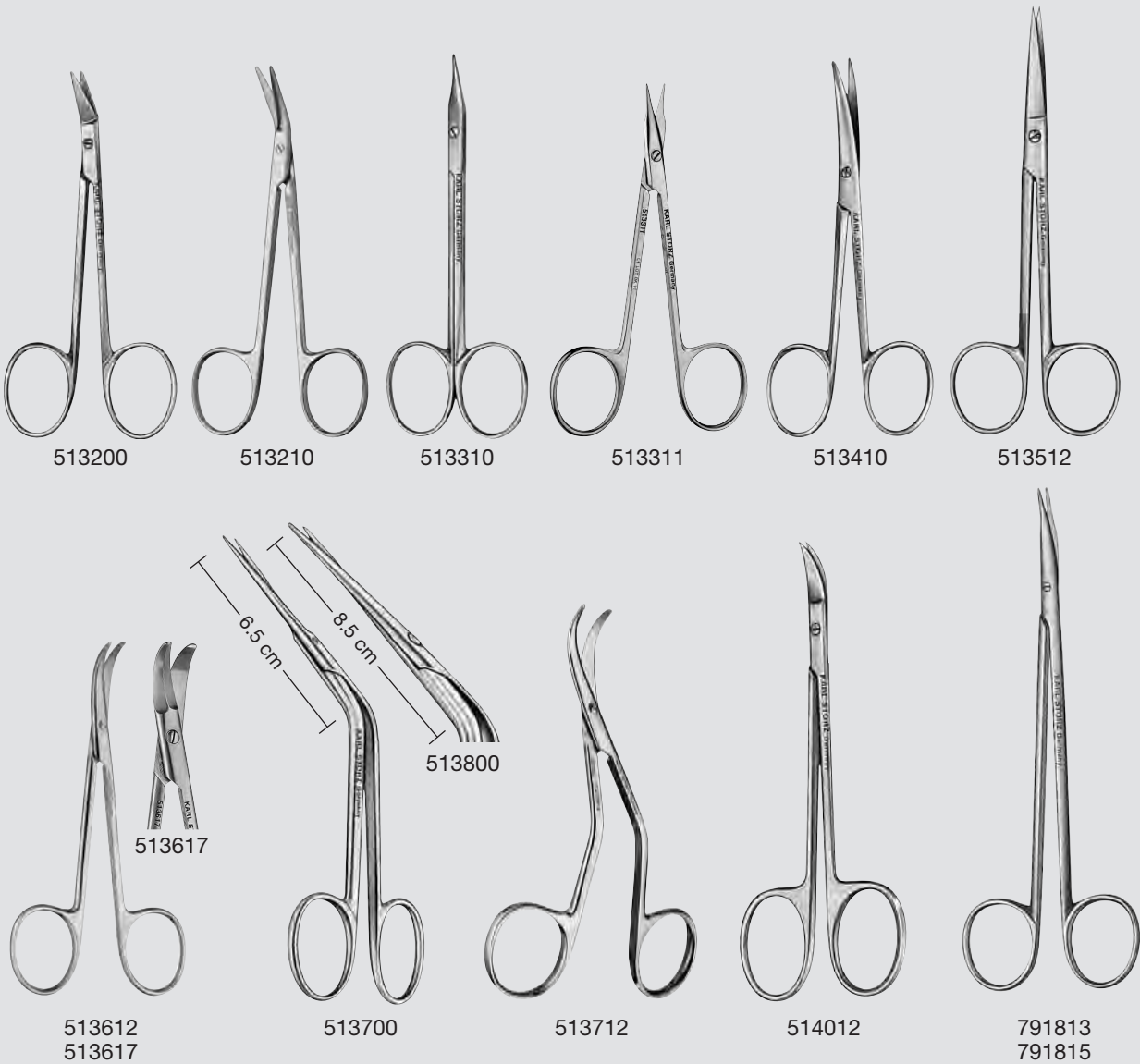
Instruments for Rhinology and Rhinoplasty



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

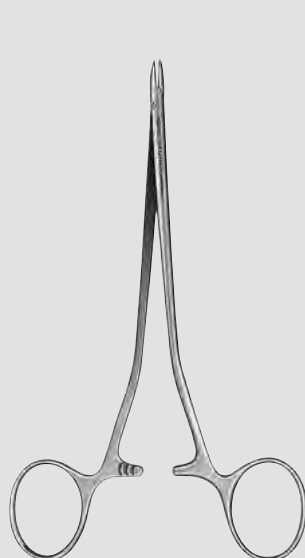


- 513200 **WALTER Scissors**, angled, length 10 cm
- 513210 **Scissors**, angled, blunt, length 10 cm
- 513310 **STEVENS Scissors**, curved, length 10.5 cm
- 513311 **Same**, straight
- 513410 **COTTLE Scissors**, curved, length 10.5 cm
- 513512 **Scissors**, straight, length 12 cm
- 513612 **FOMON Lower 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



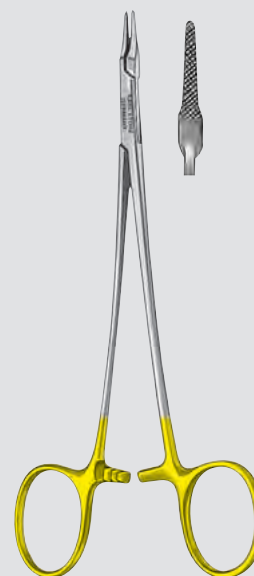
515515



516012



516013
516015



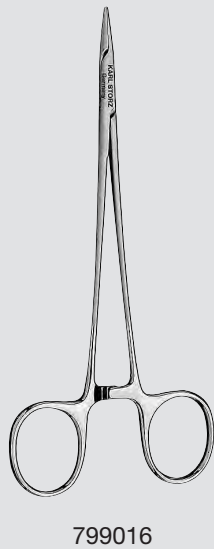
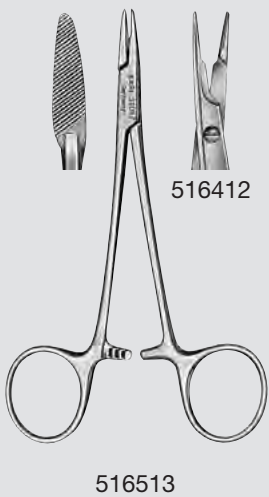
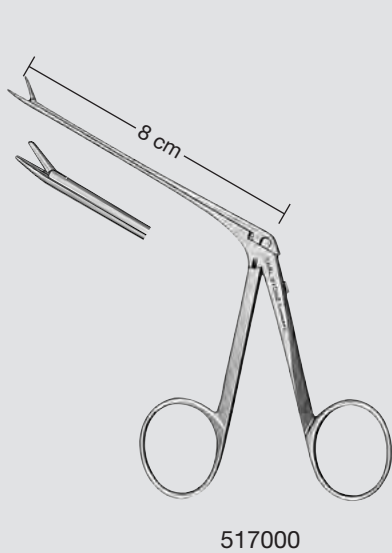
516113
516117

- 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

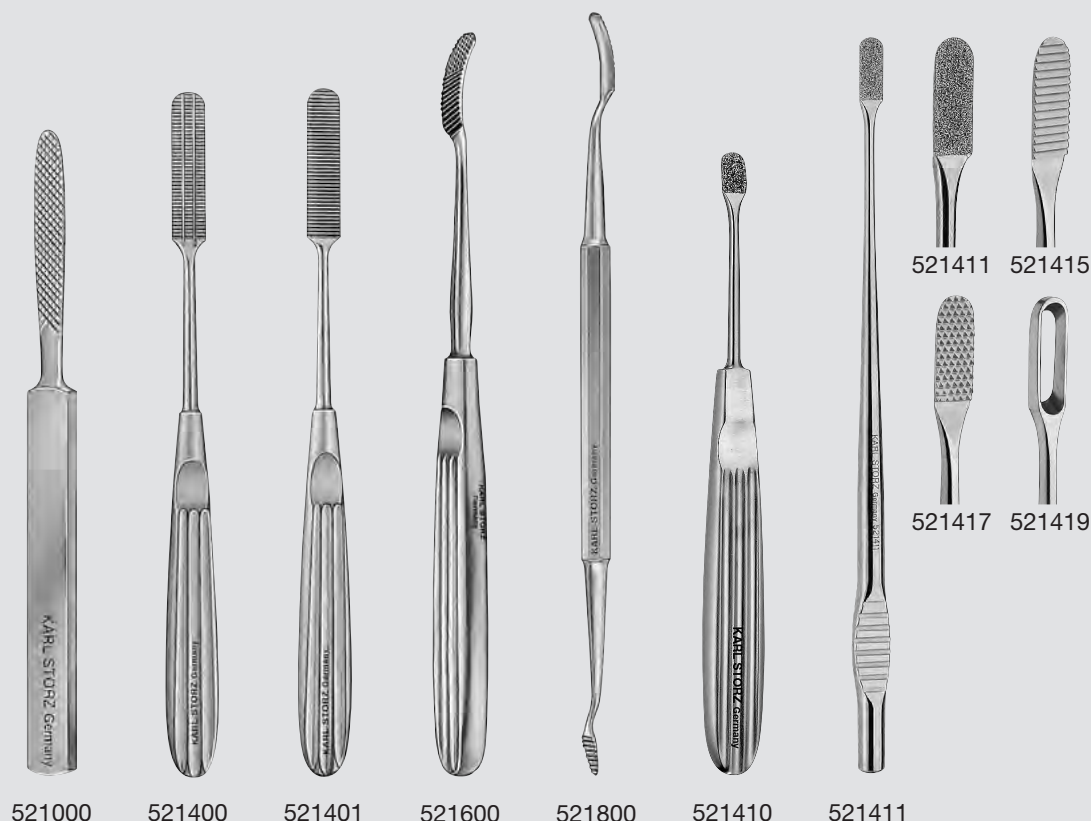
Instruments for Rhinology and Rhinoplasty



516412	OLSEN-HEGAR Needle Holder and Scissors , tungsten carbide inserts, delicate, length 12 cm	517200	Needle Holder , intranasal, handle angled 30°, tungsten carbide inserts, working length 12.5 cm
516513	NEIVERT-MASING Needle Holder , thumb ring upturned, one jaw with groove, length 13 cm	517500	Wire Twister Ligature Forceps , with tungsten carbide inserts, length 15 cm
517000	MASING Needle Holder , ear forceps shape, intranasal, smooth jaws, working length 8 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

523600

523700

523800

523812 – 523891

523100

523812

523834

523856

523878

523891

523000

523100

523600

523700

NEW 523800

523812

523834

523856

523878

523891

JOSEPH **Nasal Saw**, crosswise toothed, bayonet-shaped, right, length 18.5 cm

Same, left

Nasal Rasp, double-ended, fine, length 21.5 cm

Same, coarse (rasp)

Nasal Rasp, double-ended, with diamond coating, length 21.5 cm

Nasal Rasp, tungsten carbide, double-ended, rasp blades Fig. 1 and 2, coarse, length 20.5 cm

Same, rasp blades Fig. 3 and 4, coarse and medium

Same, rasp blades Fig. 5 and 6, medium

Same, rasp blades Fig. 7 and 8, medium and fine

Same, rasp blades Fig. 9 and 10, fine

Nose

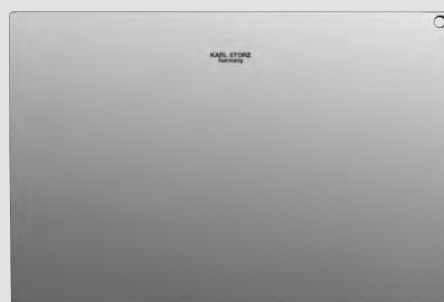
Instruments for Rhinology and Rhinoplasty



523900



523905



523913



523910
523920



524110 – 524310



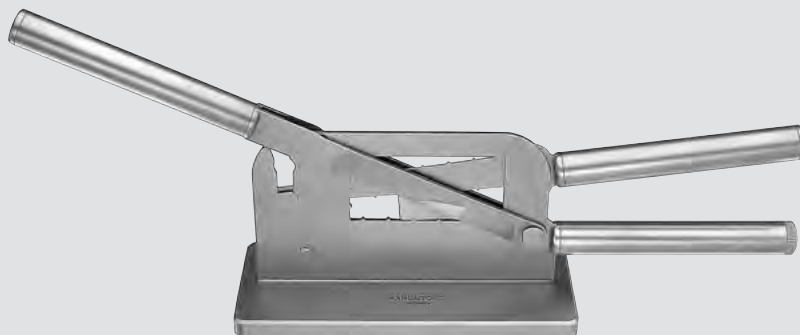
524302

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

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.

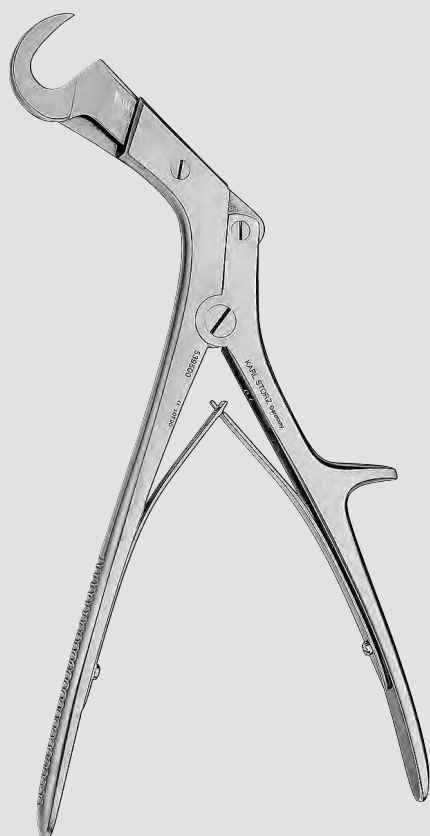
Components/Spare Parts see chapter 16

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



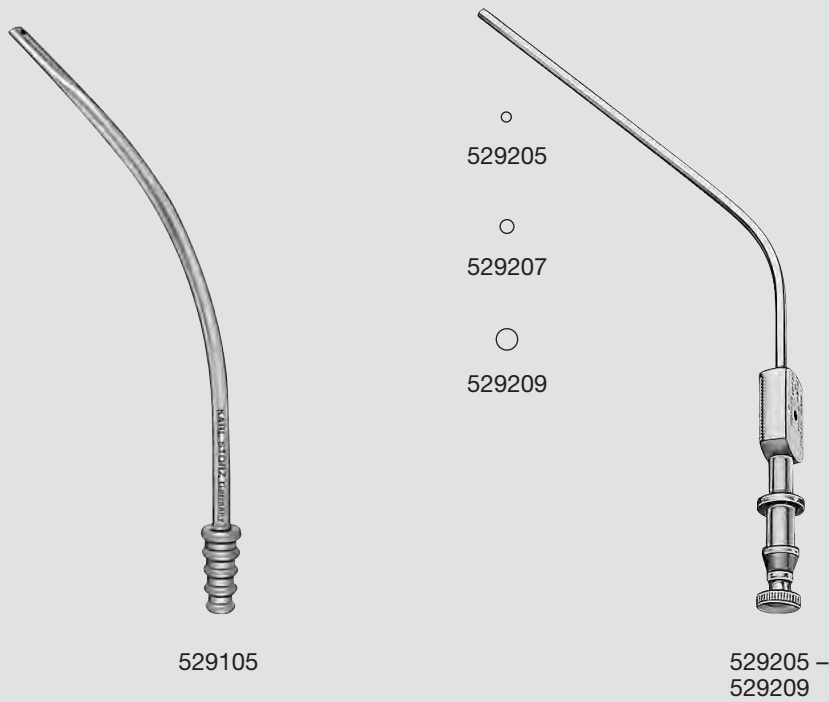
528860

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

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

Nose

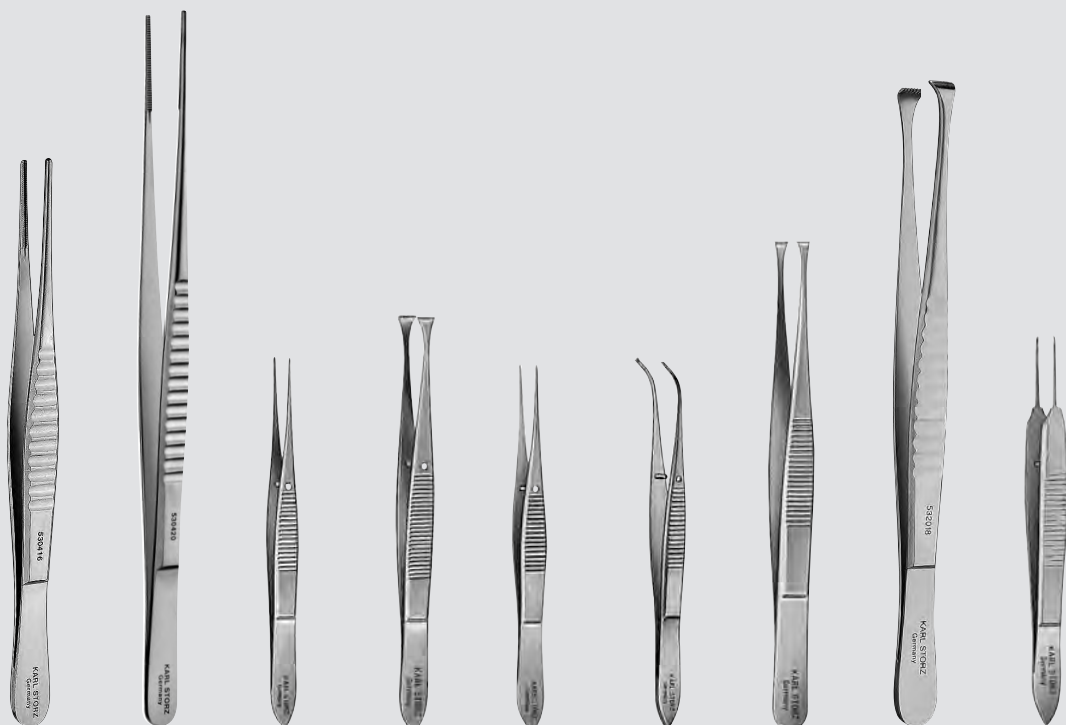
Instruments for Rhinology and Rhinoplasty



529105	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

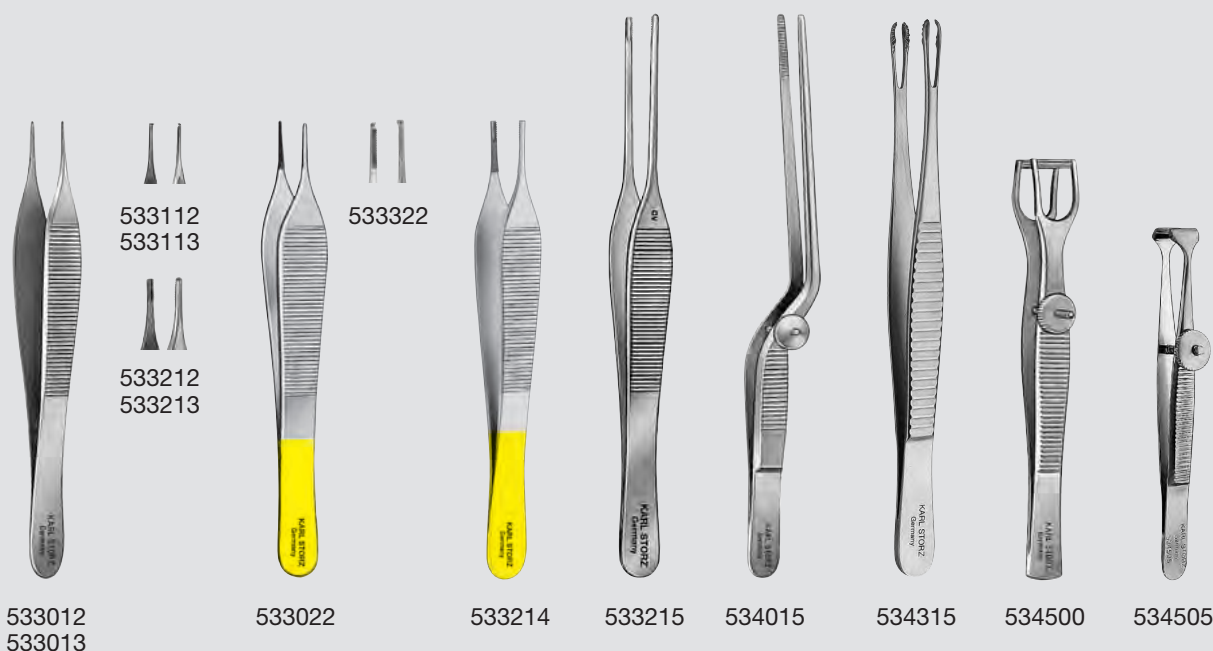
NEW

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

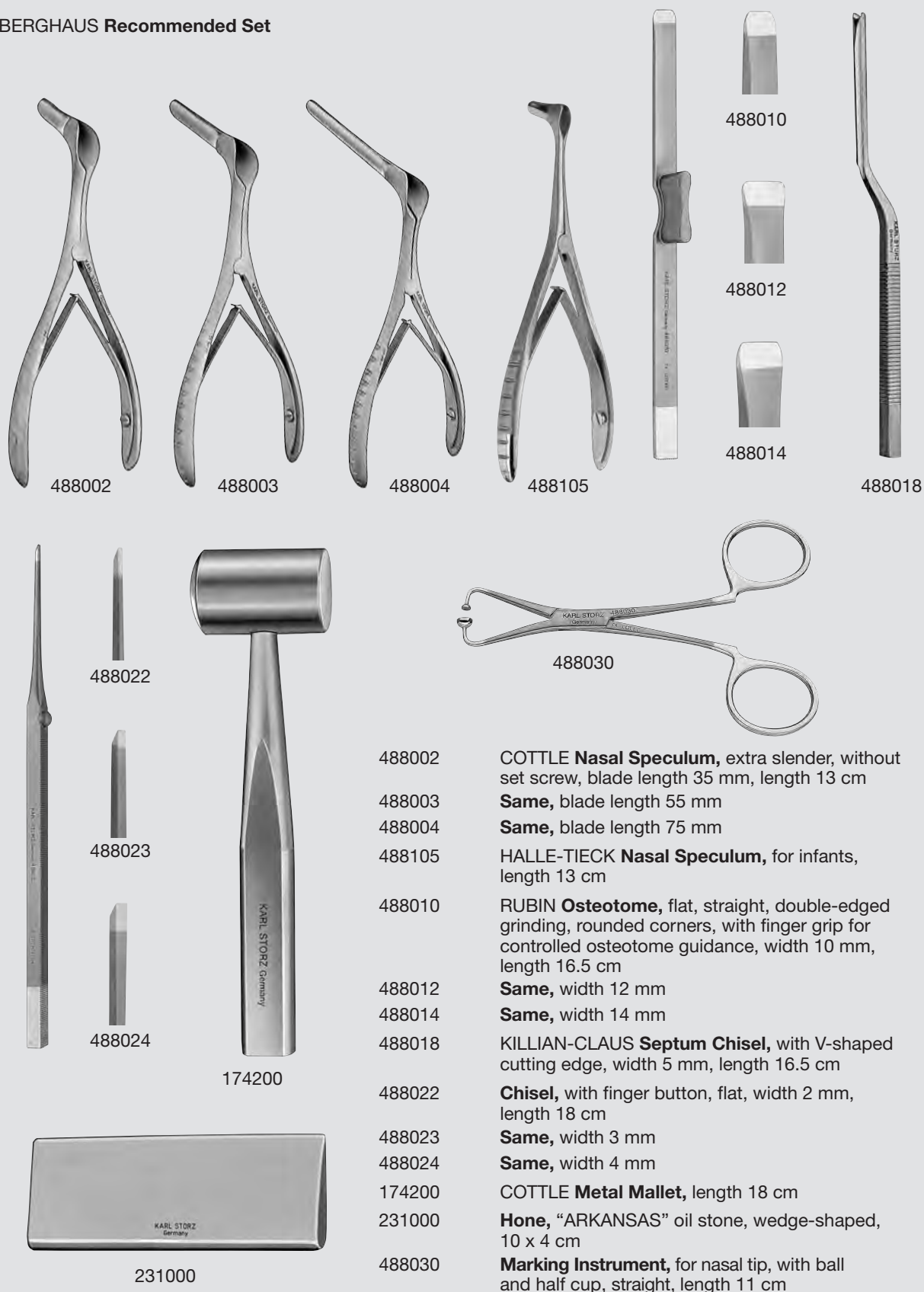


- 533012 ADSON **Dressing Forceps**, serrated, length 12 cm
- 533013 **Same**, micro-model
- 533022 ADSON **Dressing Forceps**, serrated, tungsten carbide inserts, length 12 cm
- 533112 ADSON **Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 533113 **Same**, micro-model
- 533212 ADSON-BROWN **Tissue Forceps**, 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

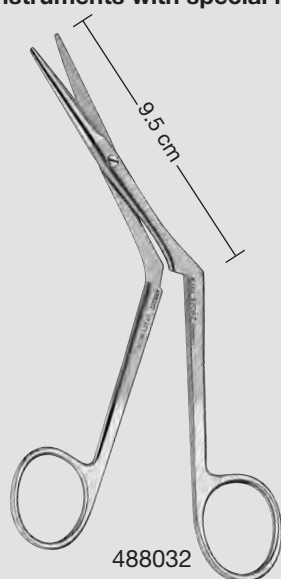


Nose

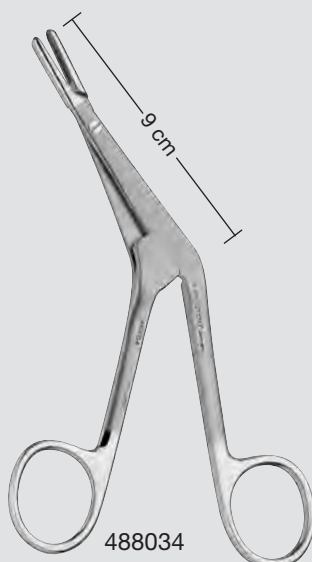
Rhinoplasty – Aesthetic Nasal Plastic Surgery

BERGHAUS Recommended Set

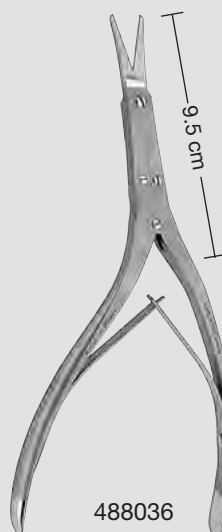
Instruments with special matt finish and high-gloss polished working tips



488032



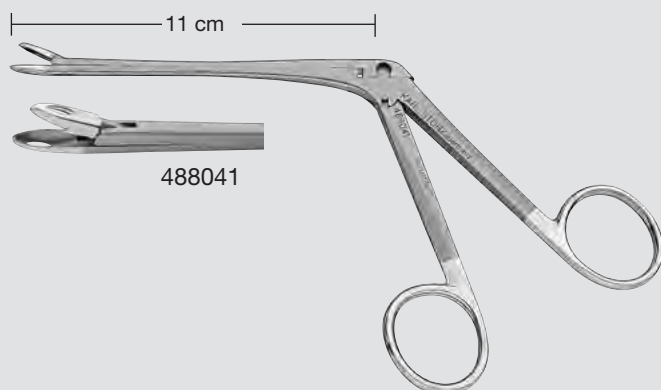
488034



488036



488038



488041

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



488044



488045
488047



488046



488049

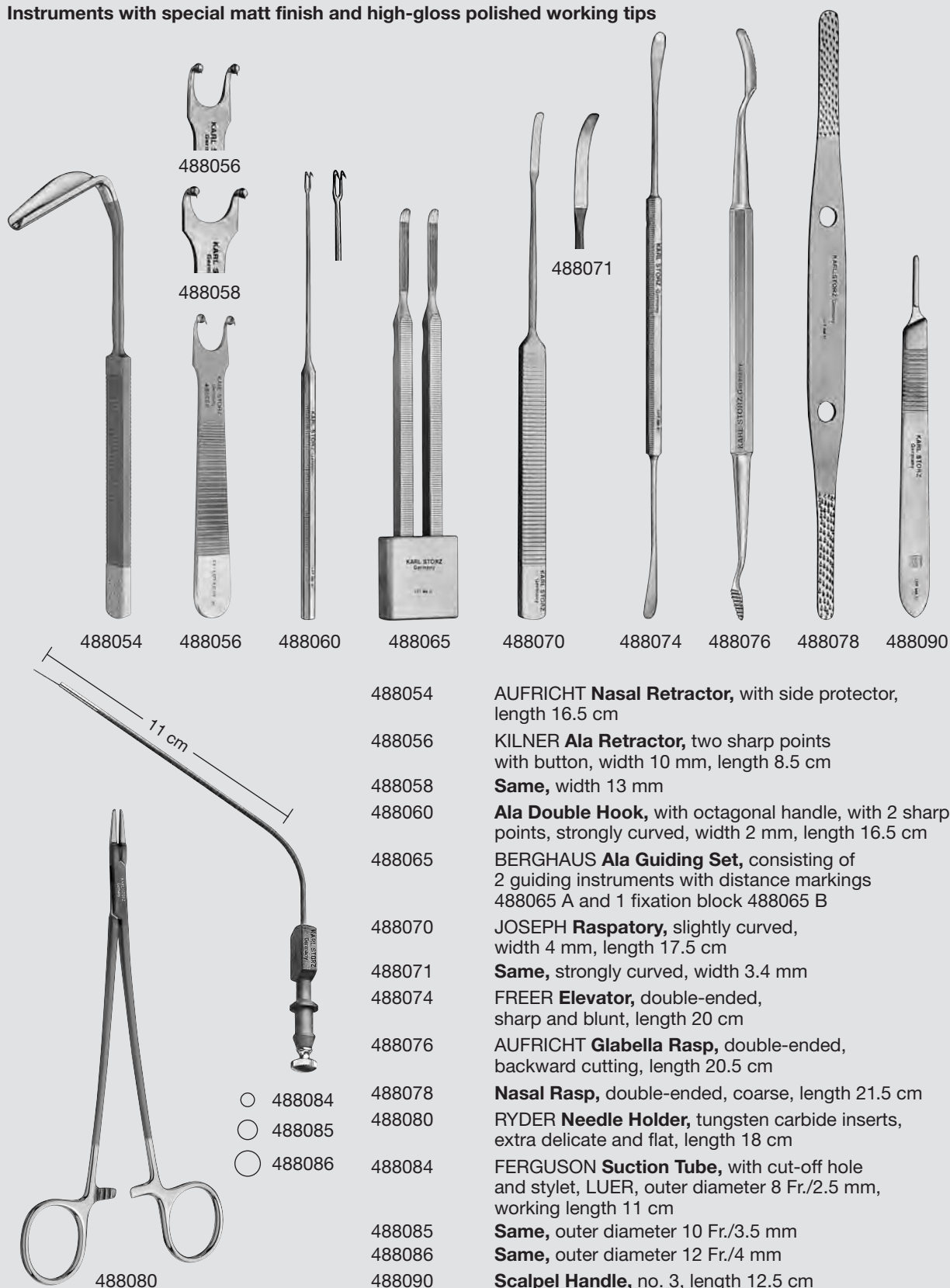
488050

Nose

Rhinoplasty – Aesthetic Nasal Plastic Surgery

BERGHAUS Recommended Set

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



Nose

Instruments for Cartilage Removal

498809

498810

498810 F

498815

498816

498822

498824

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

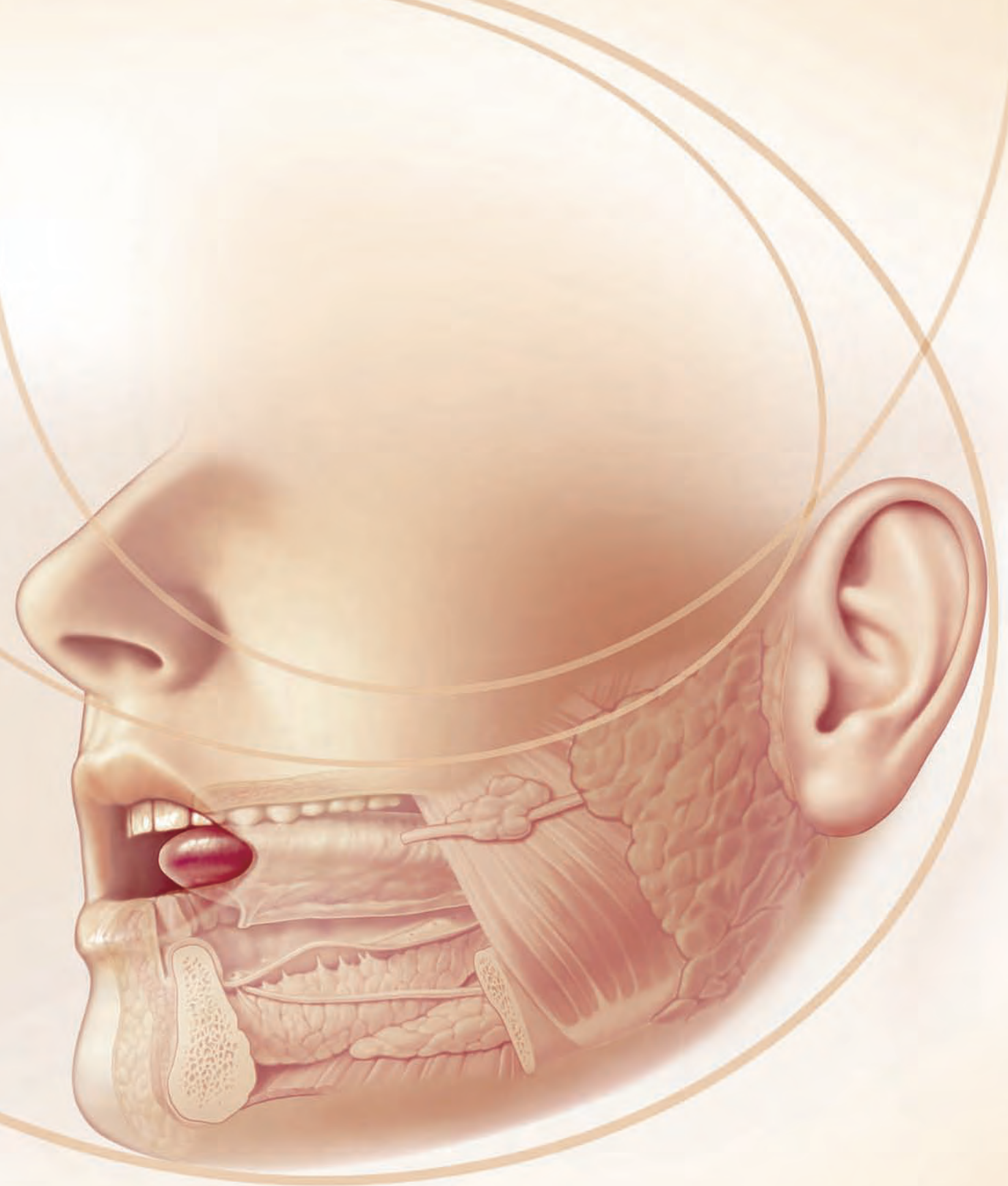
AIACH **Grid**, for preparation of cartilage, graduated, size 90 x 50 mm

498822

AIACH **Cartilage Graft Forceps**, for grasping and preparation of cartilage, with slotted jaws, length 15 cm

498824

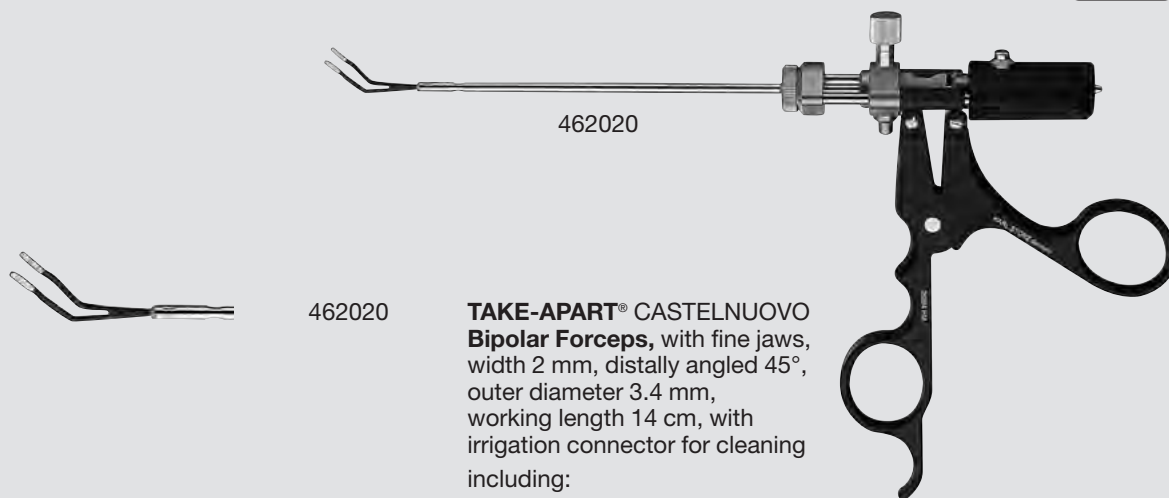
AIACH **Cartilage Crusher**, crusher size 5 x 1.5 cm



BIPOLAR AND UNIPOLAR COAGULATION

TAKE APART® Bipolar Forceps ^{NEW}

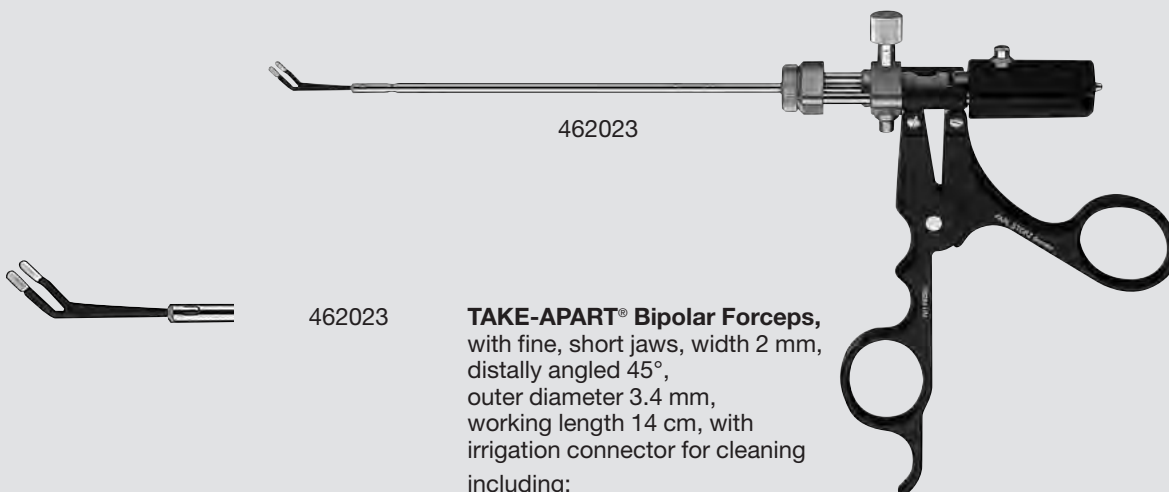
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



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

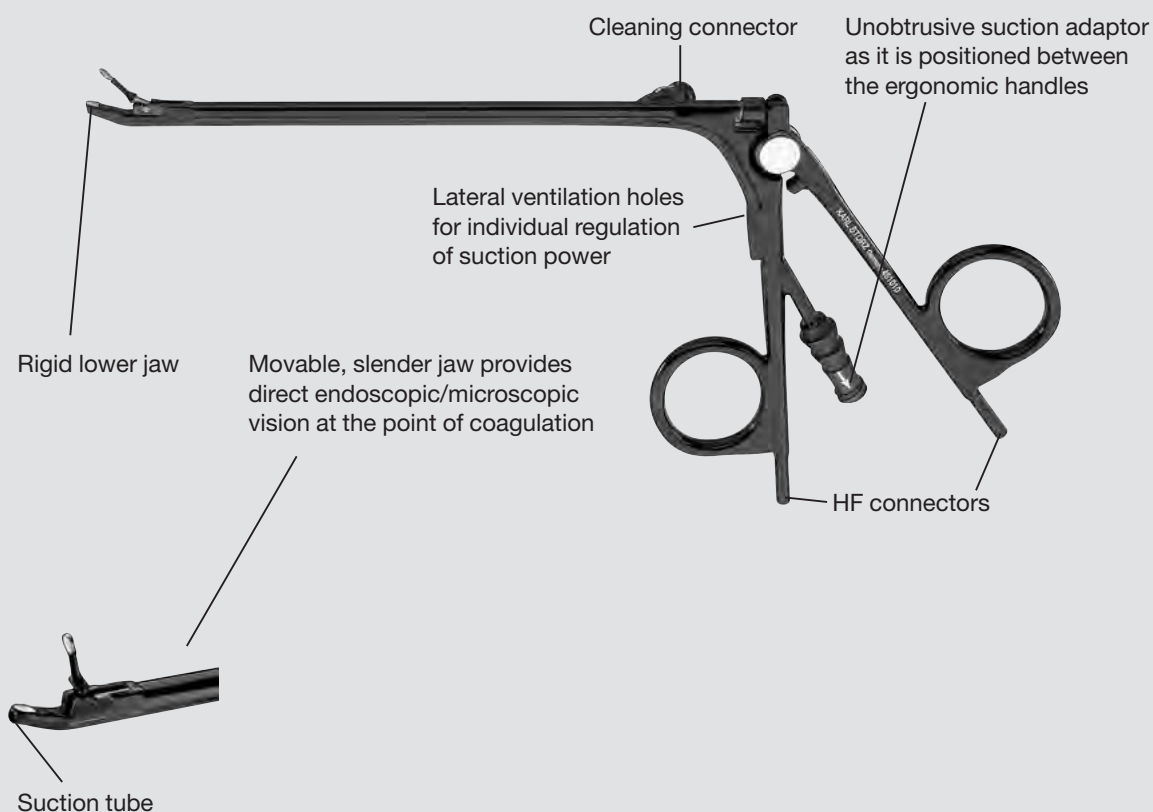
TAKE-APART® Bipolar Forceps, with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

Bipolar Ring Handle
Outer Sheath
Inner Sheath
Forceps Insert

Components/Spare Parts see chapter 16

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

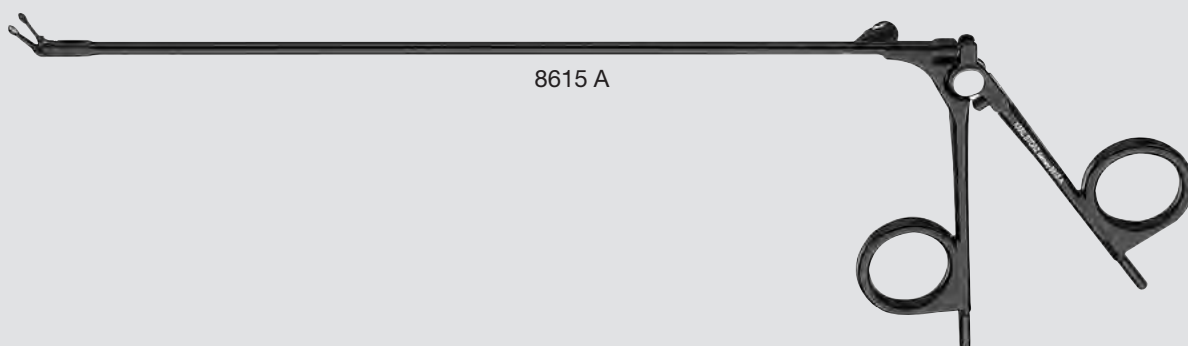
STAMMBERGER Bipolar Suction Forceps, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

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

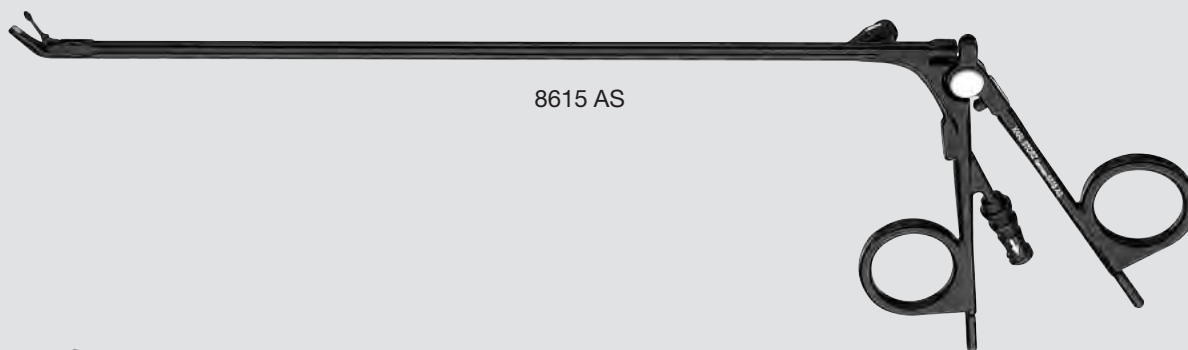


8615 A



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

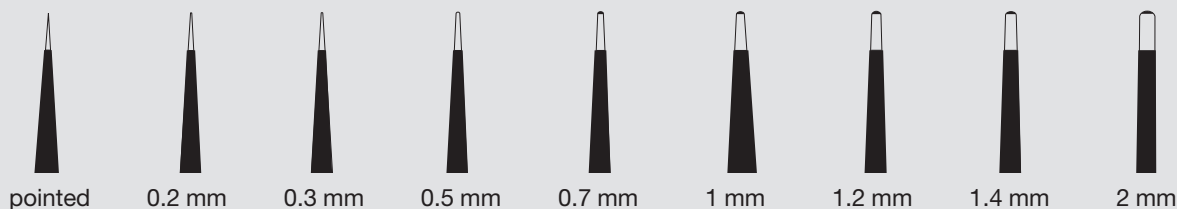
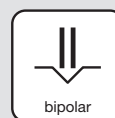
Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

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

Bipolar Coagulating Forceps, insulated, straight, pointed, length 16 cm



841216

Same, blunt, tip 1 mm, length 16 cm



841219

Same, blunt, tip 1 mm, length 19 cm



842016

Bipolar Coagulating Forceps, insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm



842116

Bipolar Coagulating Forceps, insulated, angled tip, tip 0.5 mm, length 16 cm



842216

Bipolar Coagulating Forceps, insulated, angled tip, blunt, tip 1 mm, length 16 cm



842219

Same, blunt, tip 2 mm, length 19 cm



842319

Same, blunt, tip 1 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



843016

Bipolar Coagulating Forceps, insulated, angular, very delicate, tip 0.2 mm, length 16 cm



843016 F

Same, grip insulated, front part not insulated, pointed



843116

Bipolar Coagulating Forceps, insulated, angular, pointed, length 16 cm



843219

Bipolar Coagulating Forceps, insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm



844116

Bipolar Coagulating Forceps, insulated, bayonet-shaped, pointed, length 16 cm



844216

Same, blunt, tip 1 mm, length 16 cm



844119

Same, blunt, tip 2 mm, length 19 cm



844219

Same, blunt, tip 1 mm, length 19 cm



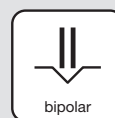
844319

Same, 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

Bipolar Coagulating Forceps, insulated, bayonet-shaped, blunt, with integrated suction channel and cut-off hole, tip 1.4 mm, length 20 cm



844321

Same, tip 2 mm, length 20 cm



844421

Bipolar Coagulating Forceps, insulated, bayonet-shaped, tip 0.3 mm, length 21 cm



844423

Same, length 23 cm



844521

Same, blunt, tip 0.7 mm, length 21 cm



844523

Same, tip 0.7 mm, length 23 cm



844621

Same, blunt, tip 1 mm, length 21 cm



844623

Same, blunt, tip 1.2 mm, length 23 cm



844721

Same, blunt, tip 2 mm, length 21 cm



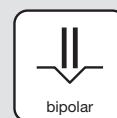
845219

Bipolar Coagulating Forceps, insulated, angled tip, bayonet-shaped, blunt, tip 2 mm, length 19 cm

Bipolar Coagulating Forceps

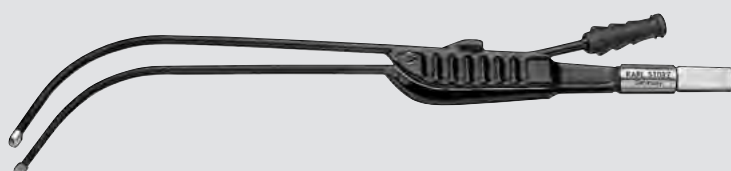
Bipolar Coagulating Forceps, insulated

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

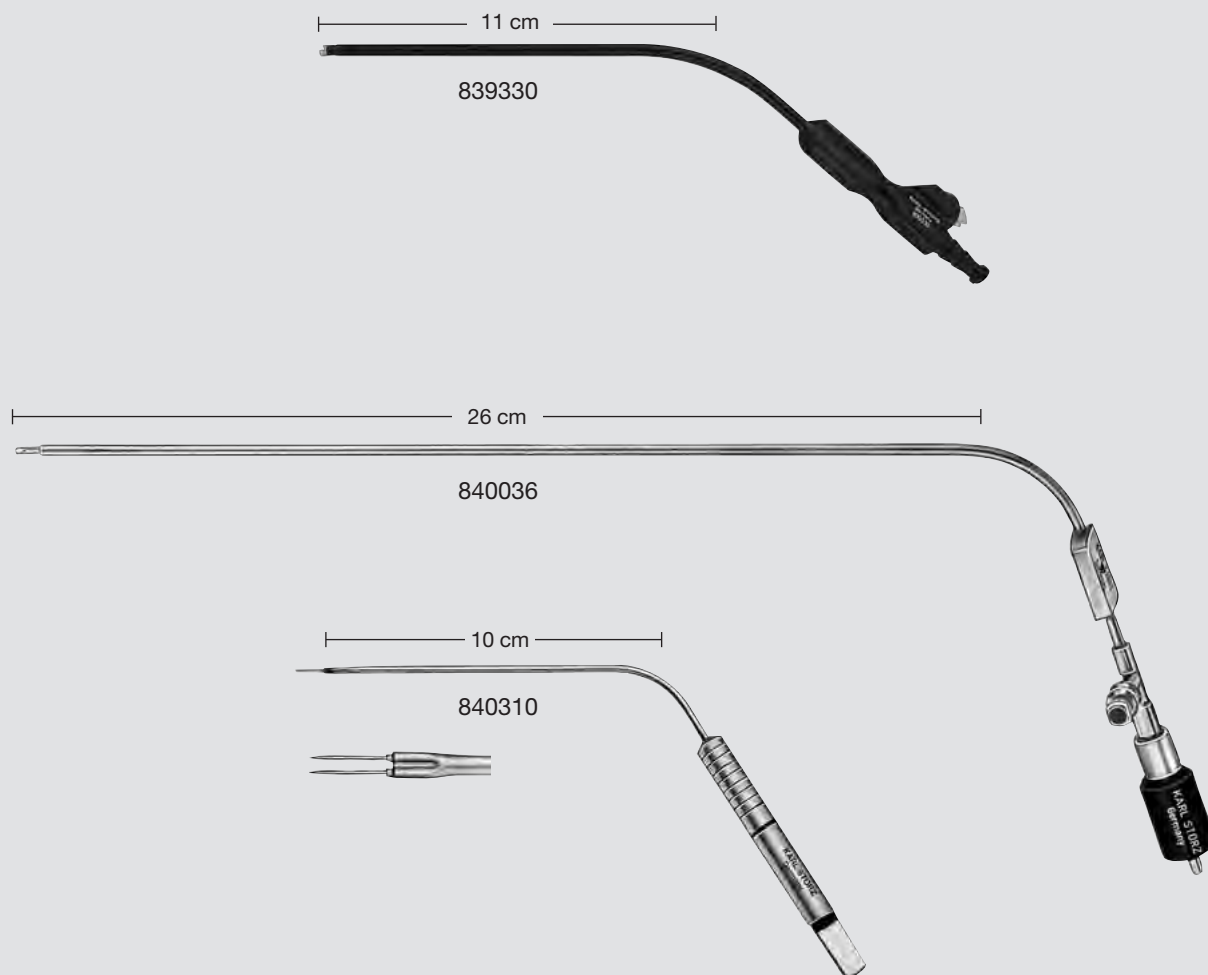
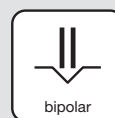
Bipolar Coagulating Forceps, insulated, for nasopharynx and adenoidectomy, tip with long 90° curve, with integrated suction channel, with cut-off hole, length 21 cm



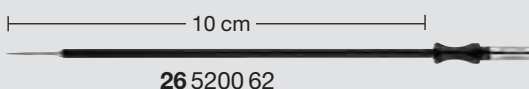
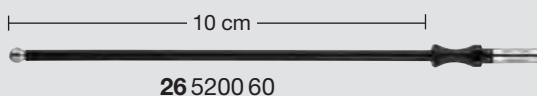
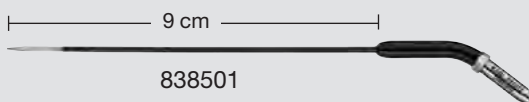
845821

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

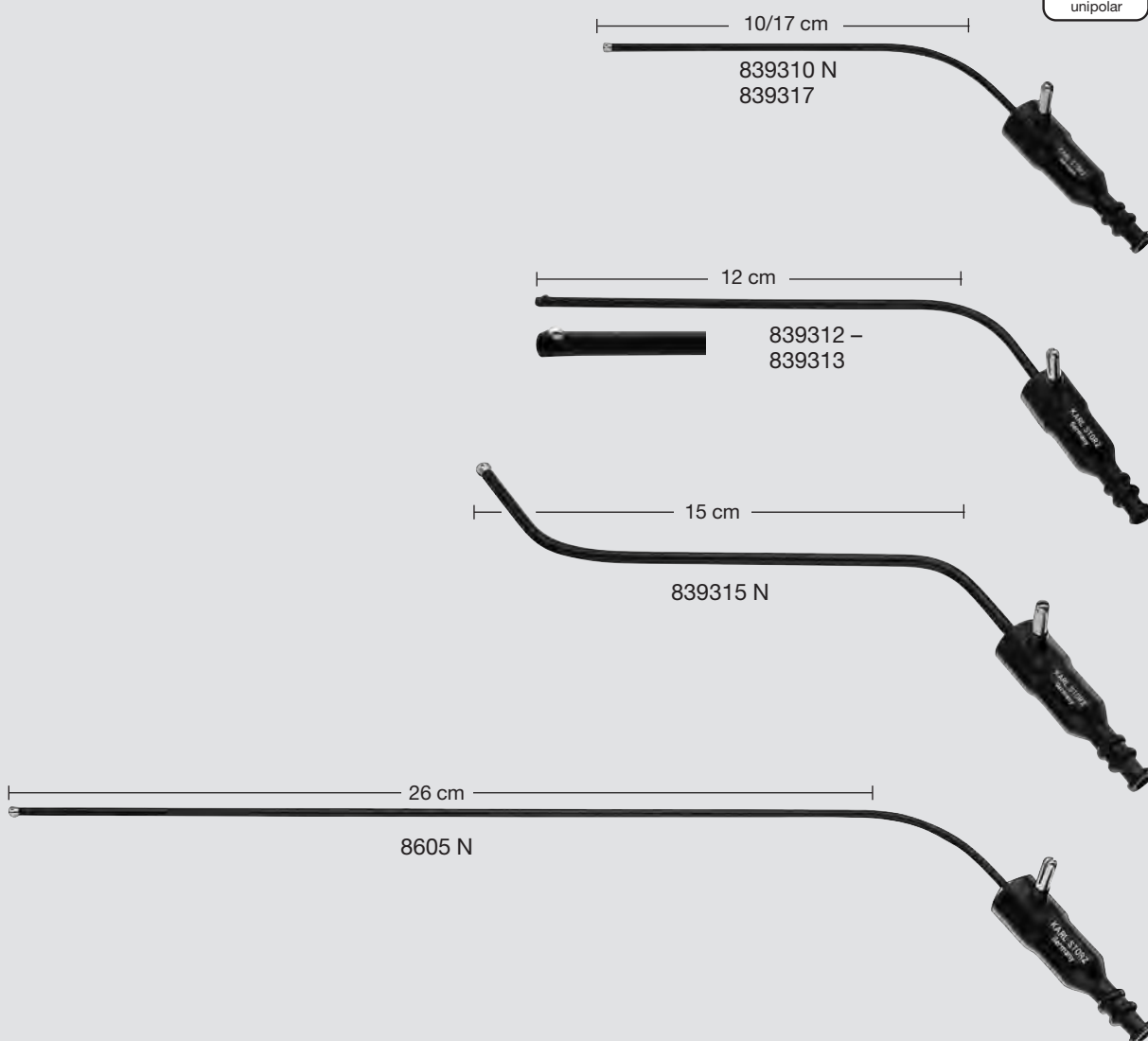


- NEW** 839330 **BRINER Bipolar Suction Cannula**, angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
- 840036 **Bipolar Coagulating Electrode**, straight, with suction channel,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

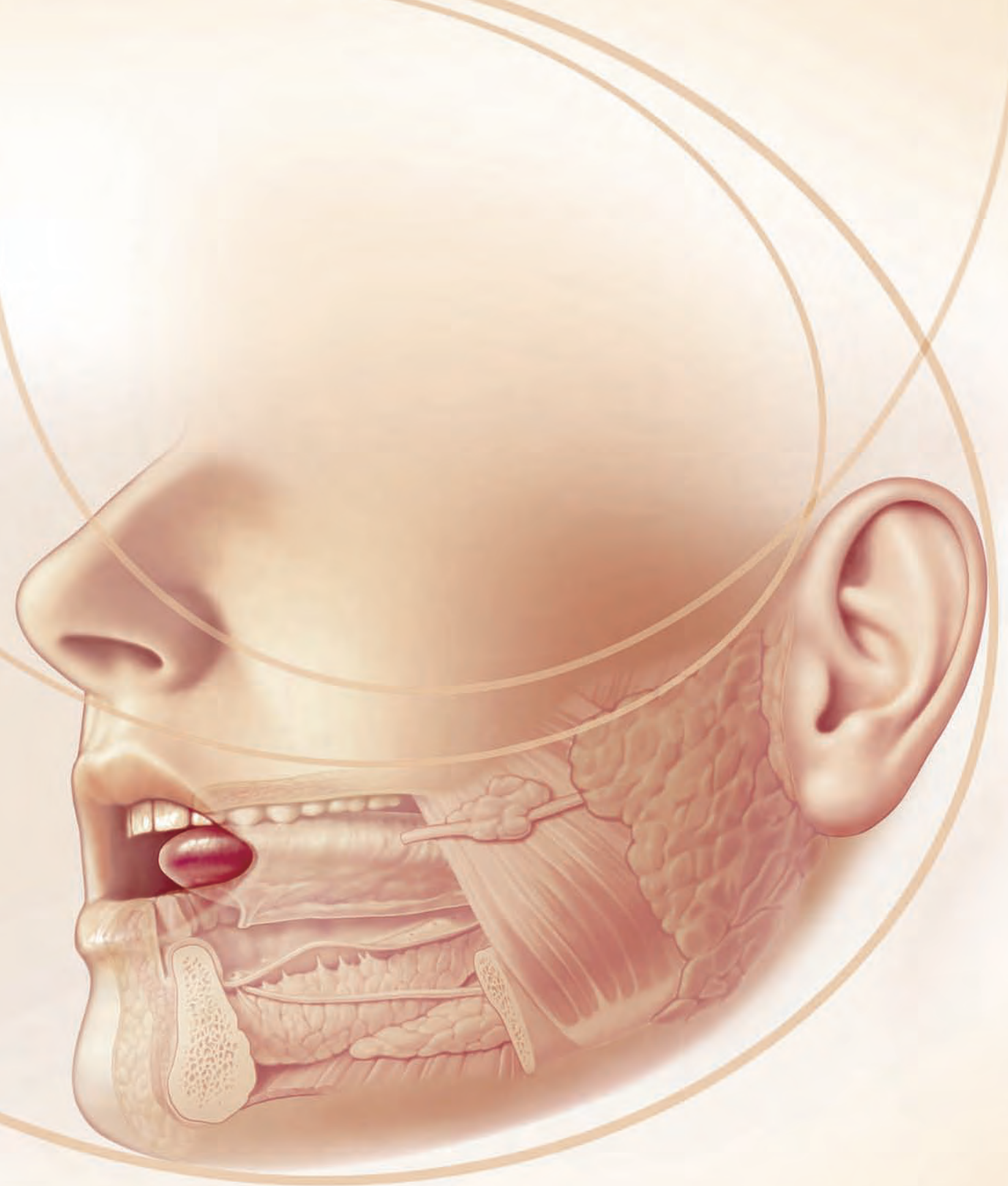


838501	Needle Electrode , for sub mucosa diathermy of the inferior turbinate, working length 9 cm
838503	Ball Electrode , for epistaxis, working length 9 cm
26 5200 60	Ball Electrode , straight, diameter 4 mm, working length 10 cm
26 5200 62	Needle Electrode , straight, working length 10 cm
26 5200 46	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



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

Components/Spare Parts see chapter 16

LED Headlight POWER OF LIGHT

Special Features:

- Integrated battery/battery light source allows more freedom of movement
- No separate light source required
- No separate light cable required
- No mains supply required
- Low energy consumption
- No need to change lamp (50,000 hours service life)
- Available as rechargeable and battery versions
- More brightness and luminosity compared to warm light headlamps
- 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

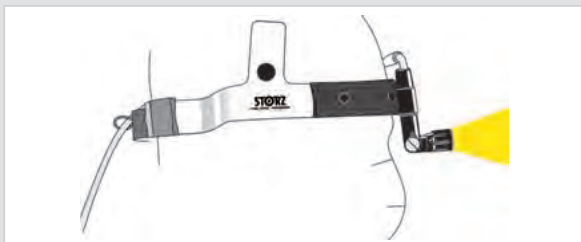
Headlights

with Cold Light Illumination

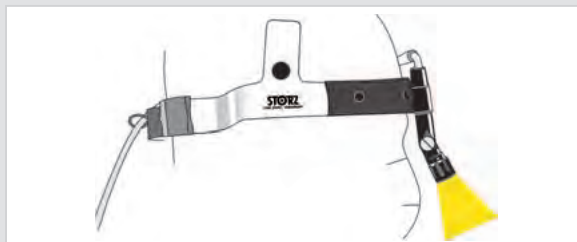
Special Features:

- 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



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



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



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

Components/Spare Parts see chapter 16

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

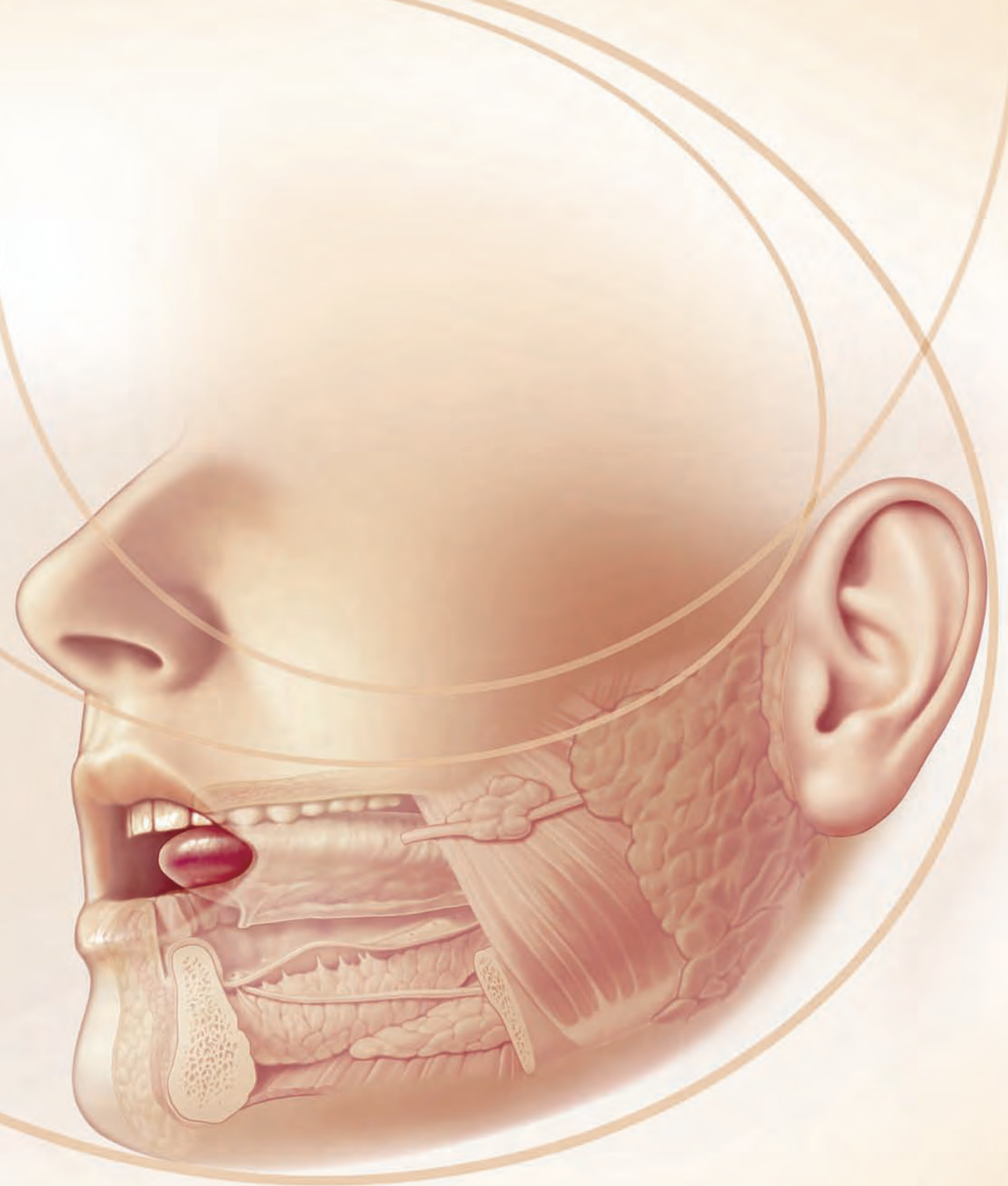


094105

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.

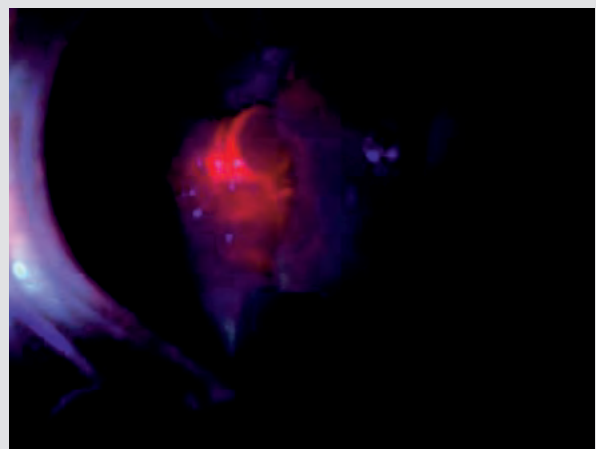
We have reached the conclusion that, taking patient management into consideration, ALA-assisted fluorescence diagnosis allows precise detection of oral cavity carcinoma and its pre-stages. In addition to other routine examinations, fluorescence diagnosis provides an additional method for the detection,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



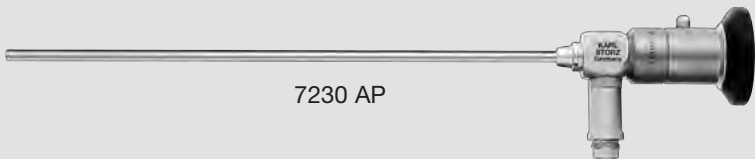
*The red fluorescence of PpIX highlights the tumor and
contrast it to the surroundings which appear to be blue.*

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



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

495 FO

Fluid Light Cable, diameter 3 mm, length 180 cm

495 FP

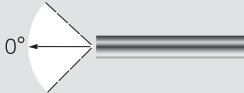
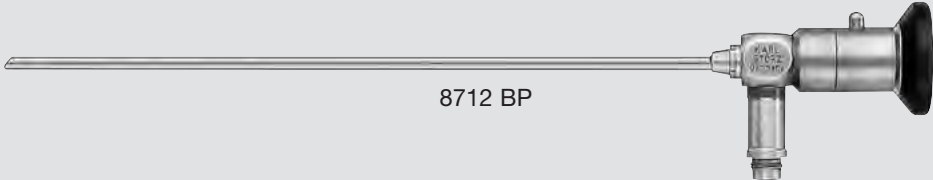
Same, length 250 cm

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



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

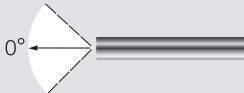
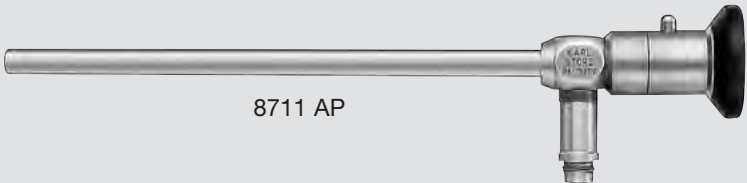


8712 CP

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

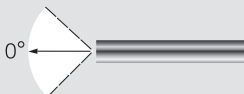
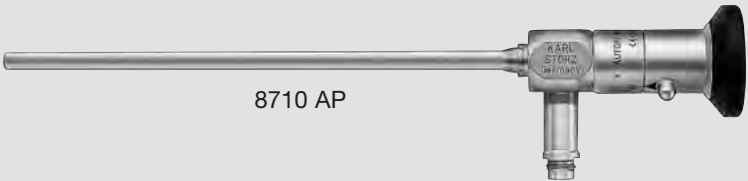


8711 AP

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

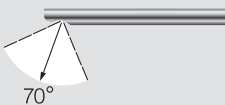
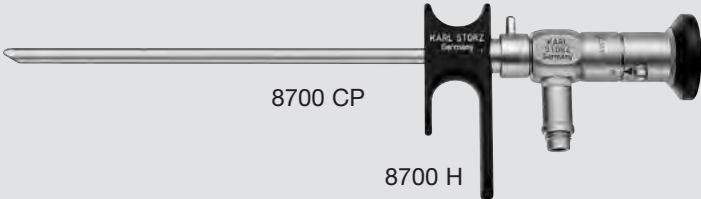


8710 AP

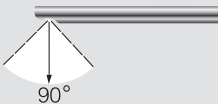
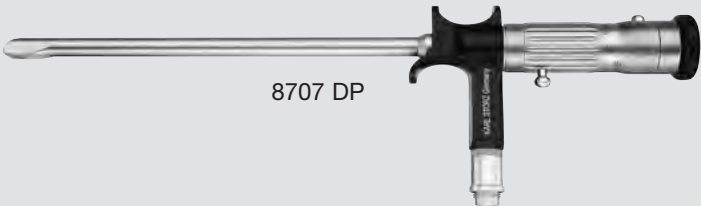
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm



- 8700 CP
Tele-Laryngoscope, with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow
- 8700 H
Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



- 8707 DP
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable**, diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue
- 495 FP
Fluid Light Cable, diameter 3 mm, length 250 cm

TRICAM® SL II

Three-Chip Camera System, Color Systems PAL/NTSC,
Digital Imaging Processor

STORZ
KARL STORZ — ENDOSKOPE

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.

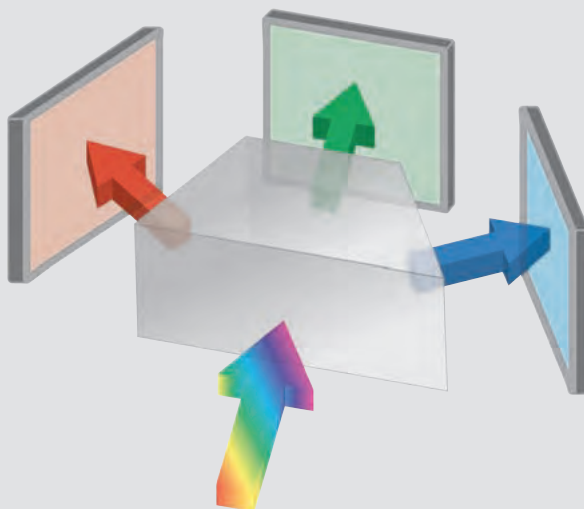
Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

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





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
Input	Keyboard input for title generator and control functions to 6-pin mini-DIN socket
Control output/input	KARL STORZ-SCB to 6-pin mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)

Camera Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Weight	2.7 kg
Power supply	100 – 240 VAC, 50/60 Hz
Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE acc. to MDD, protection class 1/BF

Optional Accessories for TRICAM® SL II and Components/Spare Parts see catalog TELEPRESENCE

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	PAL	TRICAM® PDD Three-Chip
20 2211 39	NTSC	Pendulum Camera Head

color systems **PAL/NTSC**, soakable, gas-sterilizable,
with pendulum system and fixed focus, f = 14 mm,
2 freely programmable camera head buttons,
for photodynamic early diagnosis

TRICAM® PDD Three-Chip Camera Head



20 2210 37 / 20 2211 37

20 2210 37	PAL	TRICAM® PDD
20 2211 37	NTSC	Three-Chip Camera Head

color systems **PAL/NTSC**, soakable, gas-sterilizable,
with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x),
2 freely programmable camera head buttons,
for photodynamic early diagnosis

Specifications:

TRICAM® Camera Heads	PDD Three-Chip Pendulum Camera Head	PDD Three-Chip Camera Head
PAL	20 2210 39	20 2210 37
NTSC	20 2211 39	20 2211 37
Image sensor	3x ¼" CCD chip	3x ½" CCD chip
Pixels output signal H x V	752 x 582 (PAL) 768 x 494 (NTSC)	752 x 582 (PAL) 768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines	min. 750 lines
Dimensions	diameter 29-37 mm, length 117 mm	37 x 47 mm, length 124 mm
Weight	170 g	240 g
Min. sensitivity	F 1.4/3 Lux (standard)	F 1.4/3 Lux (standard)
Lens	pendulum system, fixed focus, f = 14 mm	integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	standard eyepiece adaptor	standard eyepiece adaptor

Optional accessories for TRICAM® SL II see catalog TELEPRESENCE

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 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm
One-Pedal Footswitch, one-stage, for switch function

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

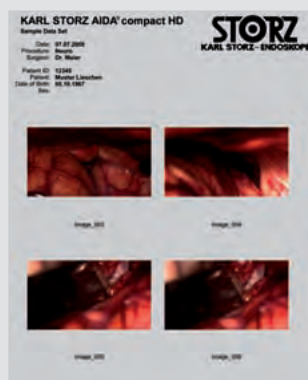
Spare Lamps and Spare Lamp Modules for D-LIGHT Systems see catalog TELEPRESENCE
Components/Spare Parts see catalog TELEPRESENCE

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™

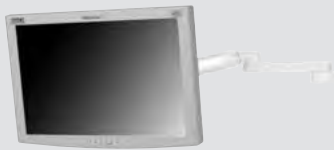
Accessories

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
Inputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
SOG	●
DVI-D	●
Fibre Optic	—
VGA	●
Outputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
DVI-D	●
Signal Format Display:	
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
- 9419 PS
- 9526 SF
- Mains Cord, length 300 cm
- Power Supply
- Pedestal, 19", 24" and 26" monitors

KARL STORZ TFT Flat Screens

W29519 N 19" KARL STORZ TFT Flat Screen

desktop with pedestal, color systems **PAL/NTSC**,
max. screen resolution 1280 x 1024,
power supply 100 – 240 VAC, 50/60 Hz

W29519 NB 19" KARL STORZ TFT Flat Screen

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC**, max. screen resolution 1280 x 1024,
power supply 100 – 240 VAC, 50/60 Hz

- including:
- Power Supply
 - Mains Cord
 - BNC/BNC Video Cable
 - S-Video (Y/C) Connecting Cable
 - DVI-D Connecting Cable
 - SVGA Monitor Cable

Specifications:

KARL STORZ TFT Flat Screens	19"
Desktop with pedestal	W29519 N
Wall-mounted with 100 adaption	W29519 NB
Brightness	300 cd/m²
Max. viewing angle	178° vertical
Pixel distance	0.294 mm
Reaction time	10-16 ms
Contrast ratio	600:1
Mount	100 mm VESA
Weight	6.8 kg
Rated power	65 Watt
Operating conditions	0-38 °C
Storage	-20-60 °C
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"
Desktop with pedestal	20 0904 03	20 0904 06
Wall-mounted with VESA 75/100 adaption	20 0904 01	20 0904 05
Inputs:		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	—	●
Screen Diagonal:		
38 cm	●	—
48 cm	—	●
Max. Screen Resolution:		
1024 x 768	●	—
1280 x 1024	—	●

Specifications:

KARL STORZ Touch Screens	15"	19"
Desktop with pedestal	20 0904 03	20 0904 06
Wall-mounted with VESA 75/100 adaption	20 0904 01	20 0904 05
Monitor type	TFT-LCD monitor with active matrix	TFT-LCD monitor with active matrix
Display	304 x 228 mm	376 x 301 mm
Touch Screen	AccuTouch	AccuTouch
Colors	16 million with pixel shading	16 million with pixel shading
Brightness	250 cd/m ² (typ.)	250 cd/m ² (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



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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

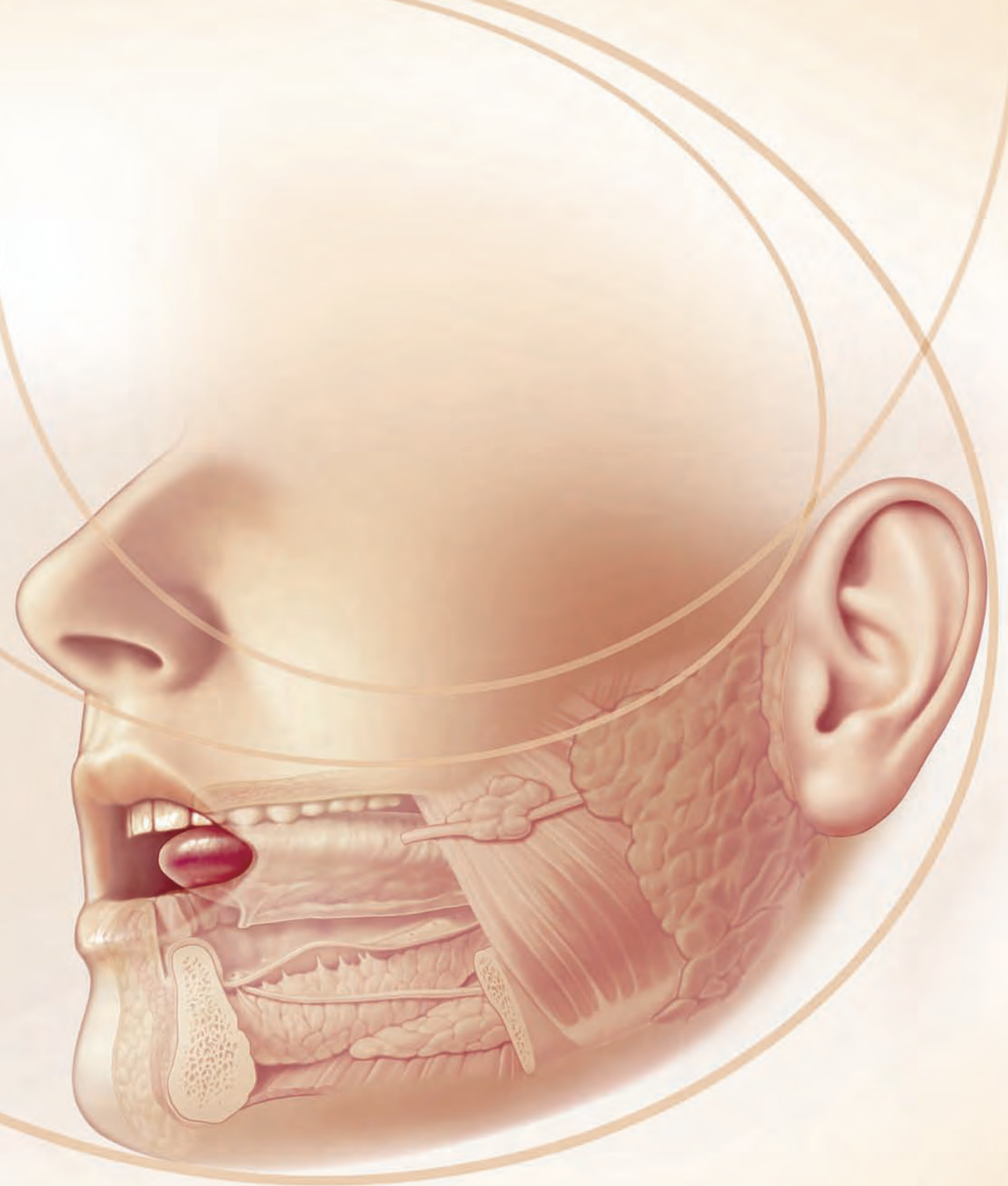
Two-Pedal Footswitch, two-stage

Accessories

for AIDA compact NEO advanced/standard



	20 0402 72	SVGA Connecting Cable , length 600 cm
	20 0400 73	RS 232 Connecting Cable , length 600 cm
	20 0400 74	Printer Cable , length 300 cm
	20 0401 74	Printer Cable , length 500 cm
	20 0103 70	Potential Equipotential Cable , length 200 cm
	20 0102 70	Potential Equipotential Cable , length 500 cm
	W20475	OR1™ Network Isolator , for galvanic decoupling of units with RJ45 network connection (100 Mbit)
	20 0900 34	Ethernet Network Board , 10/100 Mbit/s
	20 0900 37	Fiber Optic Network Board , 100 Base-FX (SC)
	20 0901 71	Fiber Optic Network Cable , LWL-patch cable with ST and SC plugs, configured, length 100 cm
	20 0900 36	Media Converter , converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply
	20 0400 76	RJ45 Network Cable , length 500 cm
	20 2040 80	CD-R , 700 MB, package of 10
	20 2040 81	DVD+RW , 4.7 GB, package of 5
	20 2040 82	DVD+R , 4.7 GB, package of 10
	20 2040 83	DVD-R , 4.7 GB, package of 10



HOLDING SYSTEMS

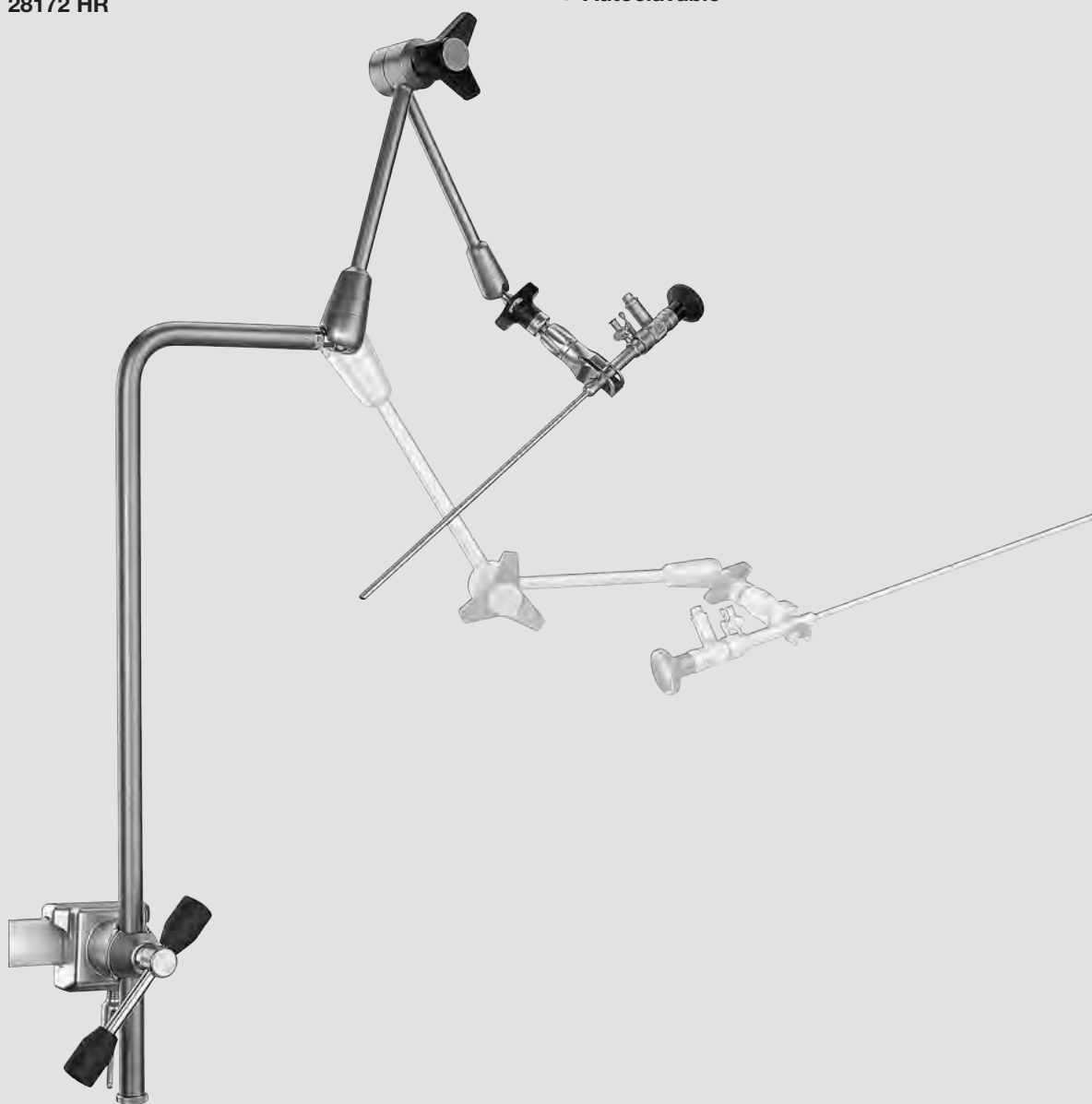
Holding Systems

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	
28172 HR				
	A 30 cm	B –	A 48 cm	B 15 cm
	C 20 cm	D 17 cm	C 20 cm	D 17 cm
			A 48 cm	B 15 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		
	28272 C	Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope.

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 ^{NEW}

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.

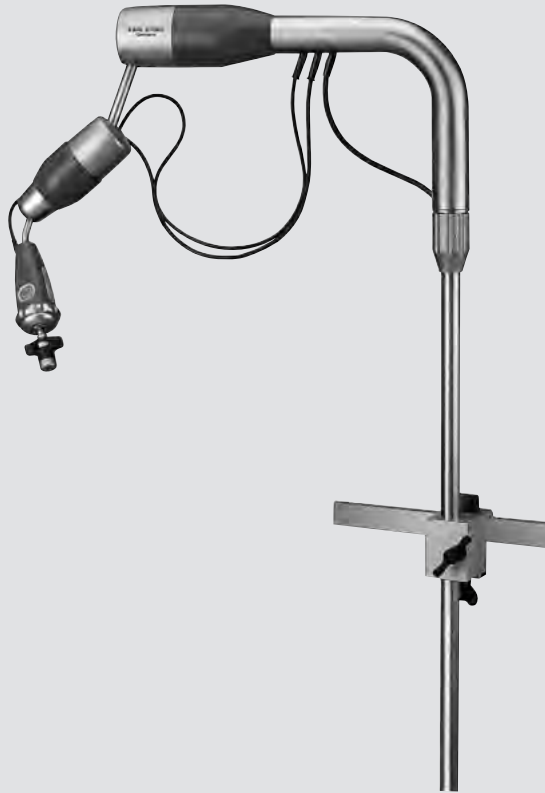
- **Hygiene**

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 ^{NEW}

Accessories



28272 UGN **Clamping Jaw**, 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 **Clamping Jaw**, 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 **Clamping Jaw**, universal, clamping range 0 to 18 mm, with quick release coupling KSLOCK (male)



28272 UF **Clamping Jaw**, for use with all KARL STORZ polymer housing fiberscopes, with quick release coupling KSLOCK (male)



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



040146-25* **Cover**, sterile, package of 25

Specifications:

Arm:

Maximum holding capacity	2 kg/20 N
Working radius	500 mm/19.7"
Swivel range	360°
Maximum locking time	30 ms (fail-safe)
Weight of holding arm and stand	7 kg/15.4 lbs
Protection against electric shock	Type B
Type of protection	IP 40

Control Unit:

Power supply	100 – 240 VAC
Mains frequency	50/60 Hz
Weight	5 kg/11 lbs
Dimensions (w x h x d)	305 x 80 x 305 mm

*



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Specifications subject to change.

POINT SETTER® Holding System ^{NEW}

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.

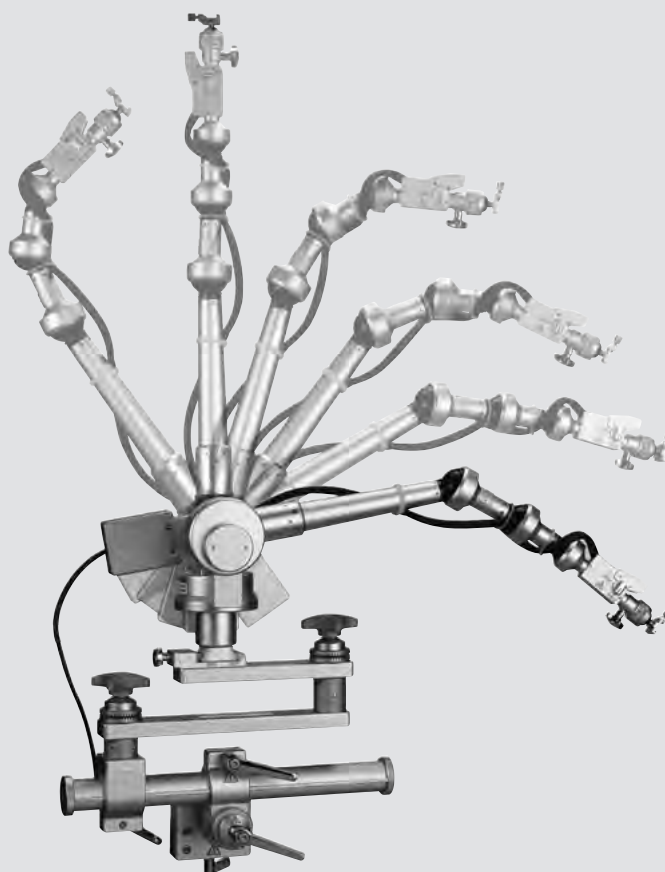
The patented self-locking pneumatic system ensures perfect safety, eliminating the need for additional error-prone electronics.

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 ^{NEW}

Product Features

● Perfect Safety

The POINT SETTER® arm operates according to an innovative, self-locking principle similar to a spring-loaded brake. This makes it totally safe and reliable. Low, fluctuating or deficient gas pressure does not effect arm stability. The arm cannot collapse even if all pressure tubes are cut off.

● Recoil-free Positioning

The POINT SETTER® arm enables very precise positioning without recoil or backlash. This is particularly important, especially if the system is used for nerve or brain retraction.

● Convenient Use

The POINT SETTER® arm was designed for single-handed use. Pressing the control button releases the arm immediately and enables quick positioning. The control button has an elevated side guard that prevents unintentional activation of the POINT SETTER® arm. A locking mechanism offers additional safety.

● Manual Fine-tuning

A manual ball joint at the tip of the handle enables convenient fine-tuning.

● Uniform Movement

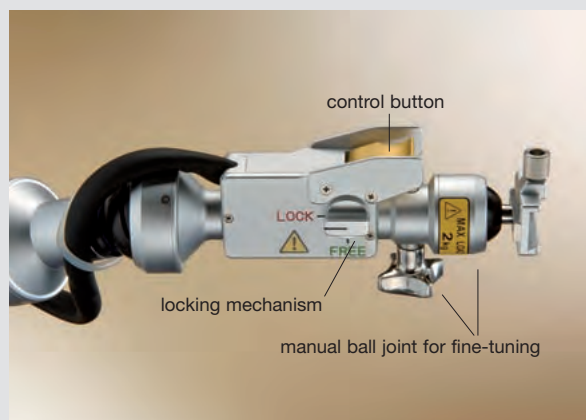
The connector joints of the POINT SETTER® arm have a special surface structure for uniform and smooth movement.

● Balanced System

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

● Robust Design

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



POINT SETTER® Holding System ^{NEW}



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.

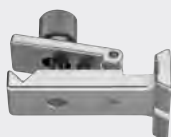
Specifications subject to change without notice.

POINT SETTER® Holding System ^{NEW}

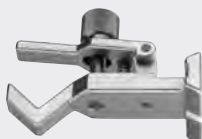
Spare Universal Adaptor, for complementing the POINT SETTER® system



28172 WV **Universal Adaptor**, 10 – 15 mm, for use with POINT SETTER®



28172 WU **Universal Adaptor**, 5 – 10 mm, for use with POINT SETTER®



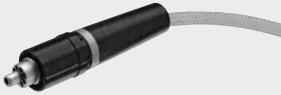
28172 WX **Universal Adaptor**, 10 – 15 mm, pediatric, for use with POINT SETTER®



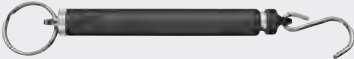
28172 WR **Retractor Blade Holder**, for holding spatulas and retractors in ENT and NEURO, for use with POINT SETTER®

POINT SETTER® Holding System ^{NEW}

Alternative and Spare Connecting Tubes

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

Accessories and Expendable Materials

	20 0310 02	Air Compressor , for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz including: Fabric Reinforced Tube , for CALCUSPLIT® SCB Connecting Tube , for POINT SETTER®, length 600 cm
	20 0310 02 C	Air Compressor , for POINT SETTER®, 0 – 8 bar, power supply 115 VAC, 50/60 Hz including: Fabric Reinforced Tube , for CALCUSPLIT® SCB Connecting Tube , for POINT SETTER®, length 600 cm
	2761291	Pressure Regulator , 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line
	28272 C	Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28172 UG and 28272 UGN as well as POINT SETTER® universal adaptor 10 – 15 mm
	28272 ECW	Spring Balance , loading capacity 25 N
	28172 WD	Drape , for single use, sterile, package of 10

Components/Spare Parts see chapter 16

STOR-E™ Transport Cart ^{NEW}

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:

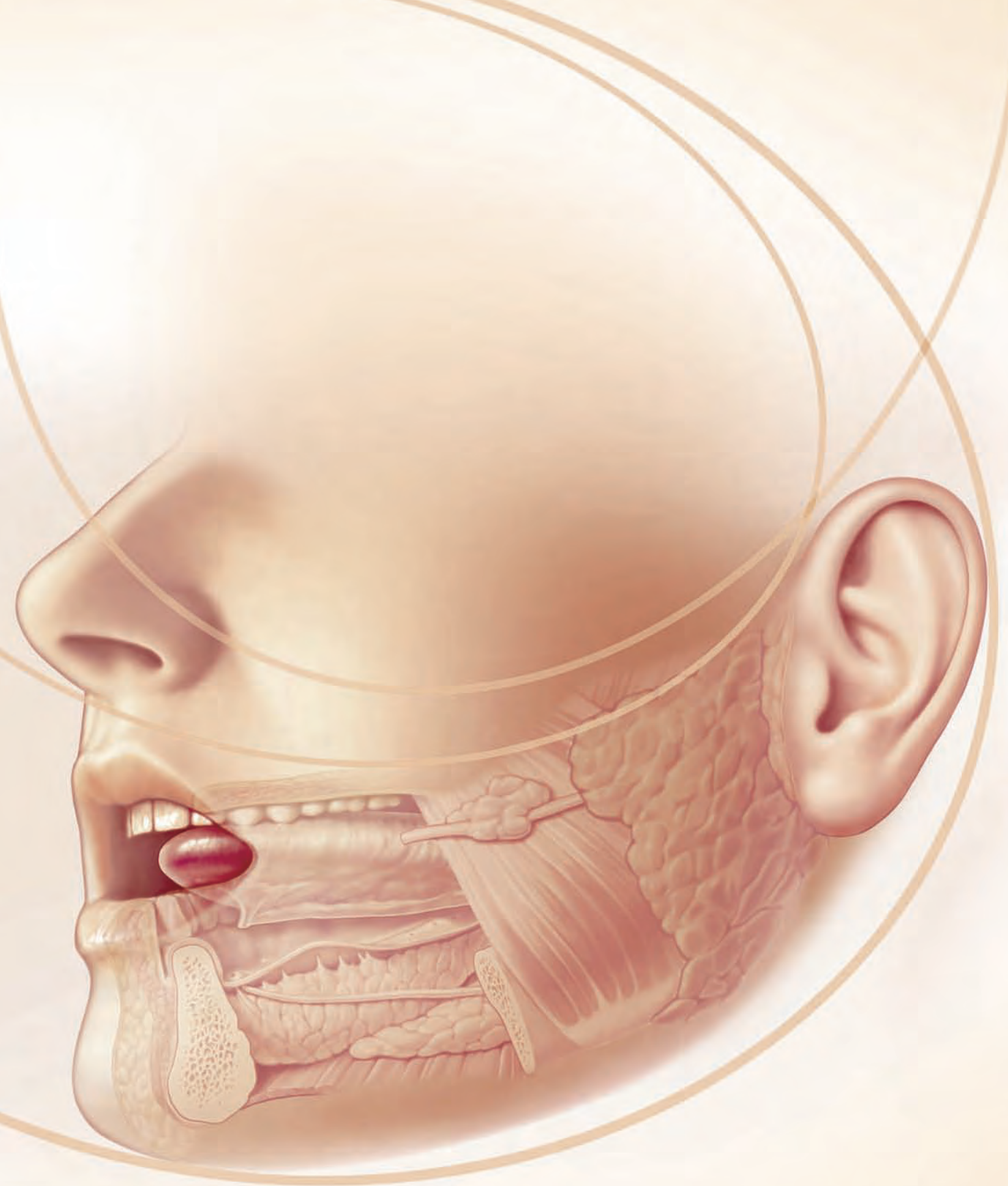
- Mobile and safe storage of the POINT SETTER® holding arm
- Faster installation and readiness of the POINT SETTER® for immediate use in the OR
- Offers space for the POINT SETTER® with standard OR table adaptor, connecting tube, sterile covers and small parts



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

Components/Spare Parts see chapter 16



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



or



or

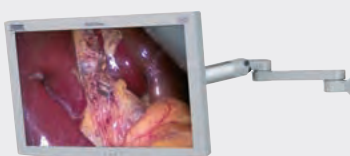


QUINTUS® TV Adaptor,
for CARL ZEISS MEDITEC

QUINTUS® TV Adaptor,
for LEICA Microsystems

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



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 FULL HD Microscope Camera Head
		60 Hz	

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 1/3" 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 HUB™ HD Camera Control Unit

IMAGE
HD 1



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



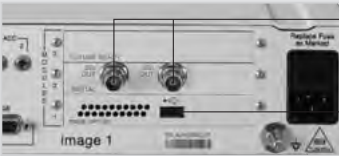
IMAGE 1 HUB™ HD Camera Control Unit

Specifications:

Signal-to-noise ratio	IMAGE 1 HUB™ HD, three-chip camera systems ≥ 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



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

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.

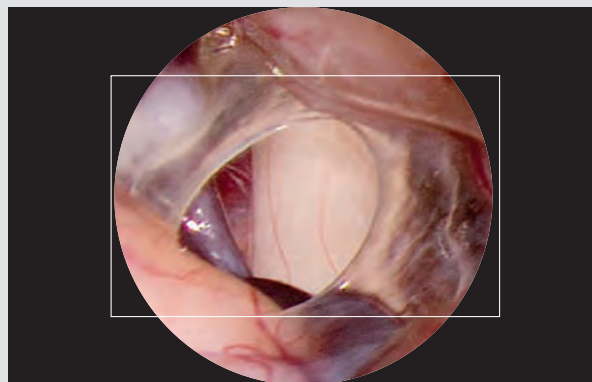


Fig. 1: Camera image detail with a focal length of 45 mm

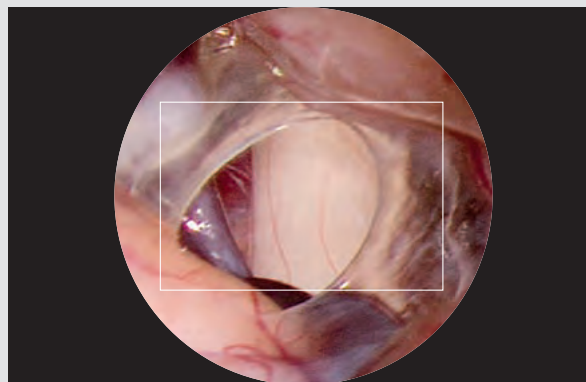


Fig. 2: Camera image detail with a focal length of 55 mm

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®



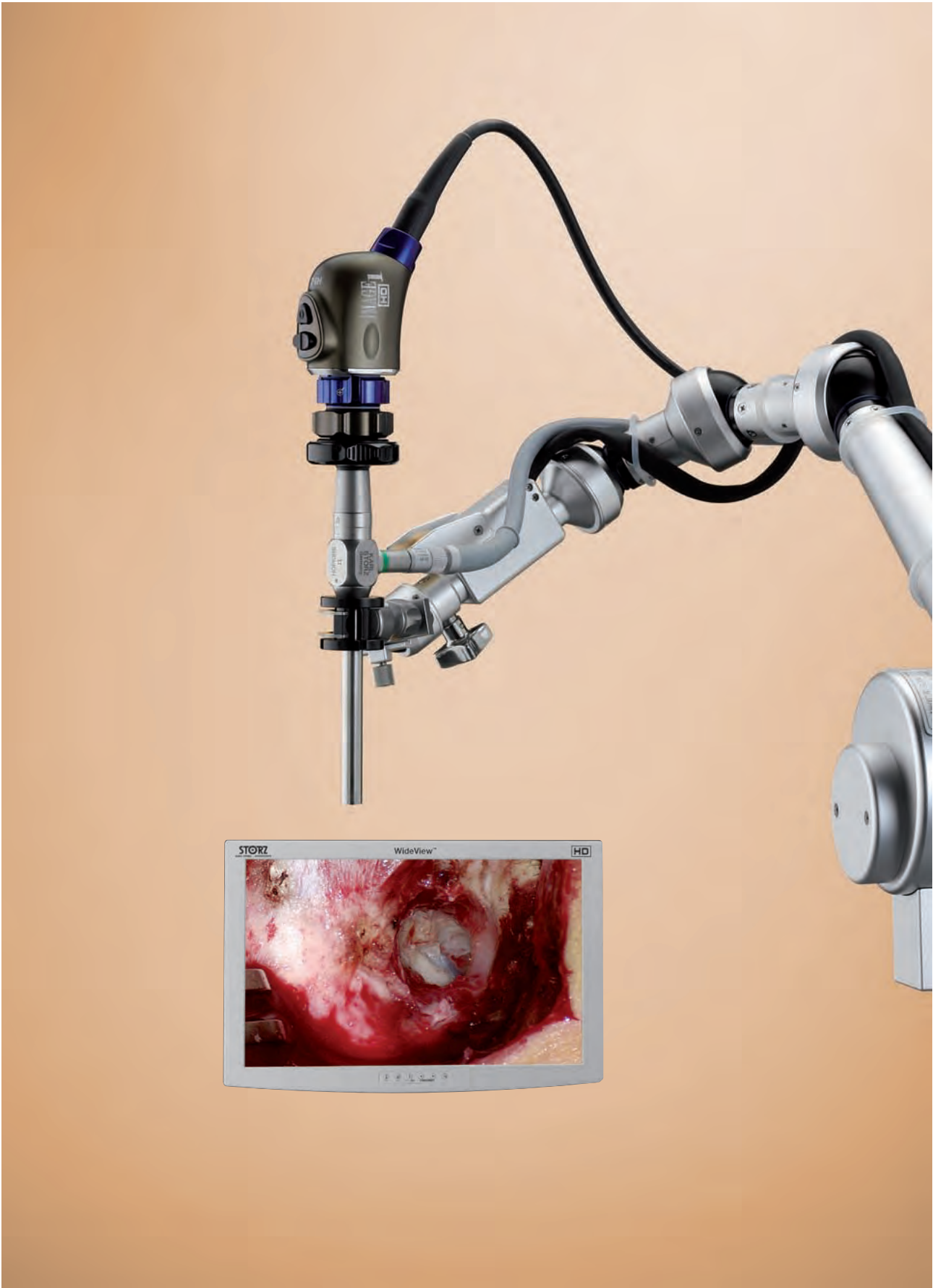
301513

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 *NEW*
Visualization System for Open Surgery with Minimal Access



12-11

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

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.



Prof. Dr. G. Strauß, IRDC, Leipzig

Exoscope and Illumination



VITOM® 25 Exoscope and Light Cable

+



VITOM® 25 Illuminator and Y-Light Cable (optional)

+



XENON 300 SCB Light Source

Camera System and Display



IMAGE1 H3-Z Three-Chip HD Camera Head

+



IMAGE 1 HUB™ HD Camera Control Unit

+



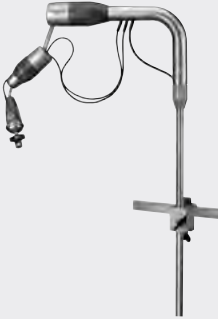
IMAGE 1 HUB™ HD Monitor

Holding Systems, see chapter 13, HOLDING SYSTEMS



POINT SETTER®
Pneumatic Holding Arm

or



ENDOCRANE™
Piezoelectric Holding Arm

or



Mechanical Holding Arm

Documentation System



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

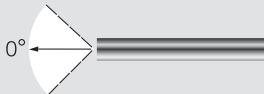
Units and Transport Cart

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

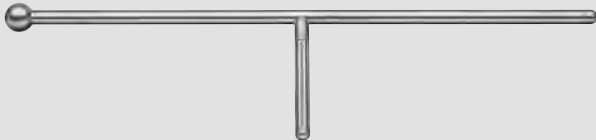
Fiber Optic Light Cable, diameter 4.8 mm,
length 300 cm

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

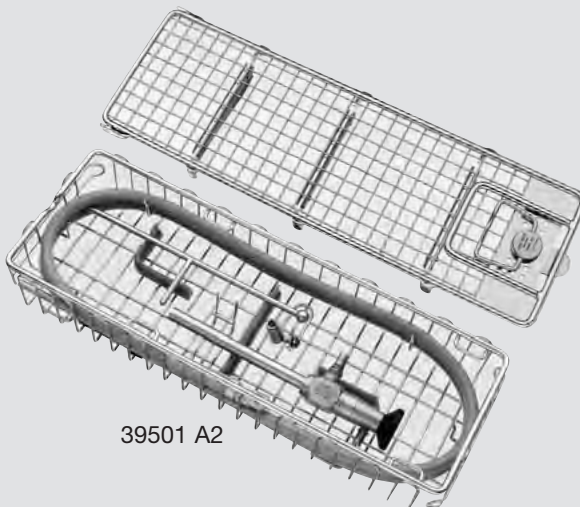
20 9170 00 **VITOM® 25 Illuminator**, for straight forward telescopes 0°, 2 adjustable lenses with holding device for VITOM® 25, **autoclavable**

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

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



Prof. Dr. G. Strauß, IRDC, Leipzig

12-11

Cold Light Fountain XENON 300 SCB

Special Features:

- Extremely high light intensity due to 300 Watt Xenon lamp
- Built-in antifog pump
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)



20 1331 01-1 Cold Light Fountain XENON 300 SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:

- Mains Cord
- Silicone Tubing Set, length 250 cm
- SCB Connecting Cable, length 100 cm

Specifications:

Lamp type	XENON 15 V, 300 Watt	Dimensions w x h x d	305 x 165 x 335 mm
Color temperature	6000 K	Weight	7.96 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 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 22 2010 11U102



22 2200 55-3

NEW	22 2200 55-3	50 Hz	IMAGE1 H3-Z Three-Chip FULL HD Camera Head
		60 Hz	

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:

IMAGE1 FULL HD Camera Head	H3-Z
50/60 Hz	22 2200 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.



22 2010 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
Inputs:			
DVI-D	1x	1x	2x
Fiber Optic	optional	optional	optional
RGBS/VGA	1x	1x	2x
S-Video	1x	1x	2x
Composite	1x	1x	2x
Outputs:			
DVI-D	●	●	●
S-Video	●	●	●
Composite	●	●	●
Displayable Signal Formats:			
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"	
Desktop with pedestal	9524 N	9524 NO	9526 N	9526 NO
Wall-mounted with VESA 100-adaption	9524 NB	9524 NBO	9526 NB	9526 NBO
Inputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
SOG	●	●	●	●
DVI-D	●	●	●	●
Fiber Optic	—	●	—	●
VGA	●	●	●	●
Outputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
DVI-D	●	●	●	●
Displayable Signal Formats:				
4:3	●	●	●	●
5:4	●	●	●	●
16:9	●	●	●	●
16:10	●	●	●	●
Picture-in-Picture	●	●	●	●
PAL/NTSC compatible	●	●	●	●

The following accessories are included:

Mains Cord

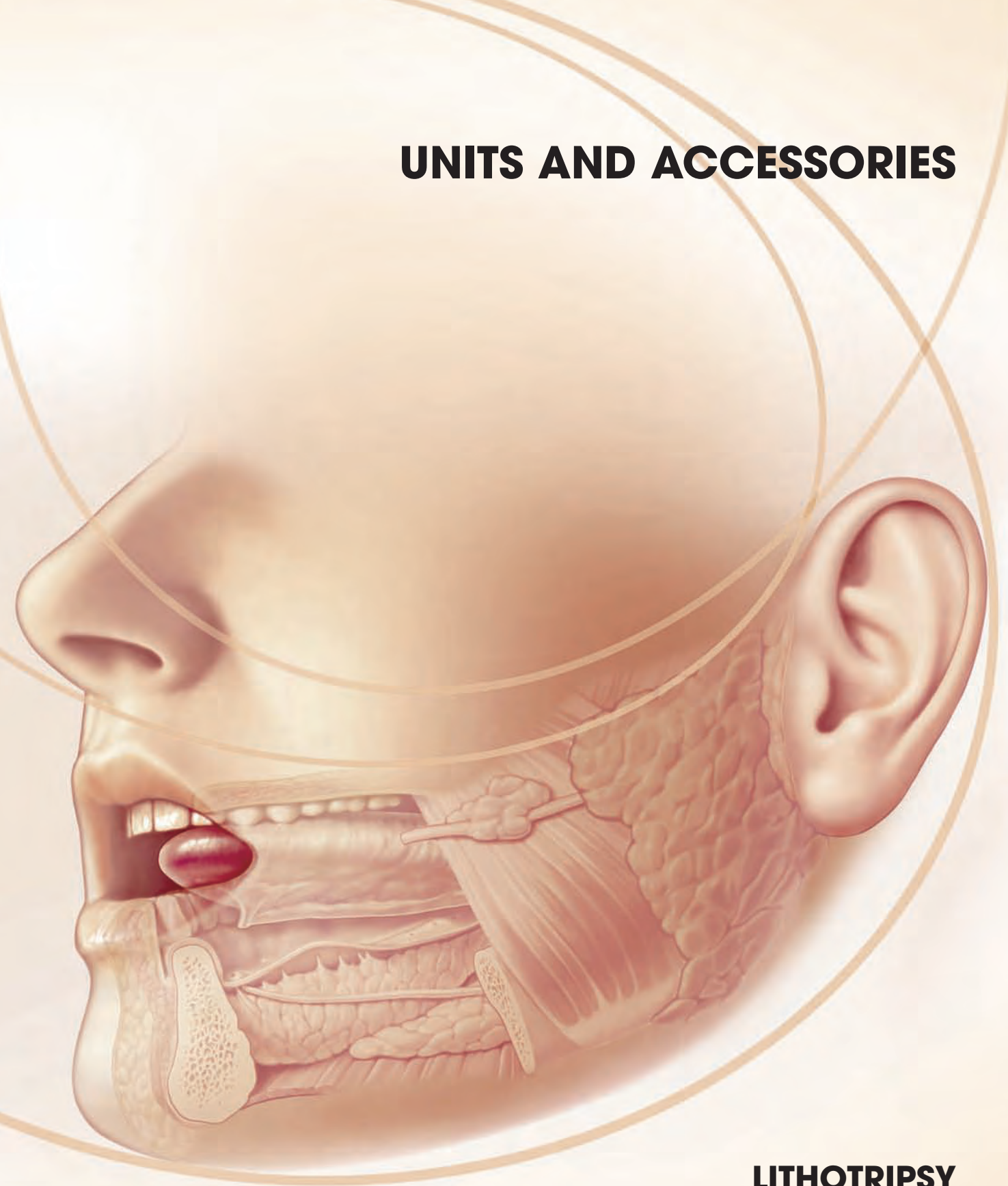
External 24VDC Power Supply

Signal Cable

Pedestal (only 9524 N/NO and 9526 N/NO)

The systems can be operated with KARL STORZ-SCB units.
Video Connecting Cables see catalog TELEPRESENCE

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**

LITHOTRIPSY

SUCTION AND
IRRIGATION SYSTEMS

MOTOR SYSTEMS

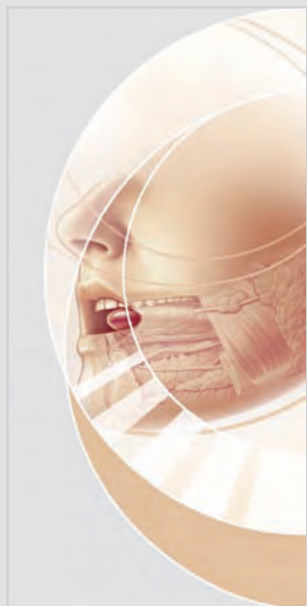
HIGH FREQUENCY SURGERY UNITS

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



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 Tägerwil/Switzerland
Telefon: 0041/71/677 45 45
Telefax: 0041/71/677 45 05
Mail: info@storzmedical.com
Home: www.storzmedical.com



■ SUCTION AND IRRIGATION SYSTEMS

ENDOMAT® LC SCB

DUOMAT®

CLEARVISION® II

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
Pressure, non-regulated	max. 1125 mmHg (150 kPa)
Suction pressure	non-regulated: -0.46 bar (-46 kPa)
Power supply	100-240 VAC, 50/60 Hz

Dimensions w x h x d	305 x 110 x 260 mm
Weight	4.5 kg
Certified to	IEC 601-1, CE acc. to MDD

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

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



SCB®

UNIT SIDE
PATIENT SIDE

SUCTION AND
IRRIGATION SYSTEMS

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

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Optional accessories for DUOMAT® see pages U 16-17
Components/Spare Parts see chapter 16

UNIT SIDE

PATIENT SIDE



**Silicone
Tubing Set,
for Irrigation**
(Unit –
pressure
infusion cuff
connection)
part 1 of 2



20 3000 46

**Silicone
Tubing Set,
for irrigation**
(unit – bottle
connection)
part 1 of 2



20 3000 45

**Silicone
Tubing Set,
for irrigation**
(unit – bottle
connection)
part 1 of 2



20 3001 45
20 3000 45

**Tubing Set,
for suction**
(unit –
bacterial filter)
part 1 of 2



20 3000 44

Bacterial Filter



031124-10*

**Pressure
Infusion Cuff**



26 3100 38
26 3101 38

**Bottle Cap,
for irrigation**
bottle



26 3100 35
26 3100 50

Puncture Needle



860015 B
26173 VG

**Suction
Bottle,
1,5 l,
Bottle
Cap,
Bottle
Stand**



20 3000 52
20 3000 34
20 3001 30

**Silicone
Tubing Set,
for Irrigation**
(pressure
infusion cuff –
instrument
connection)
part 2 of 2



20 3000 46

**Tubing Set,
for irrigation**
(bottle –
instrument
connection)
part 2 of 2



20 3000 45

**Tubing Set,
for irrigation**
(bottle –
instrument
connection)
part 2 of 2



20 3001 45
20 3000 45

**Tubing Set,
for suction**
(bottle –
instrument
connection)
part 2 of 2



20 3000 44

Suction and Irrigation Tube



50207 B

*



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

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

*

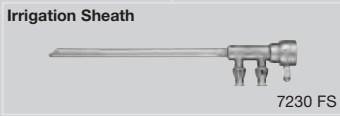
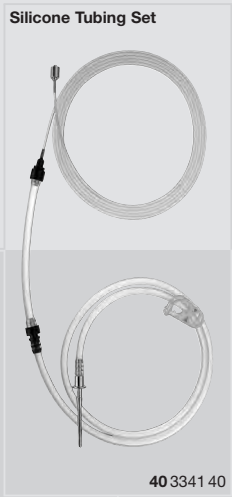


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Components/Spare Parts see chapter 16



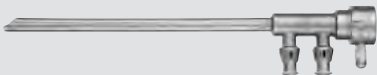
UNIT SIDE
PATIENT SIDE



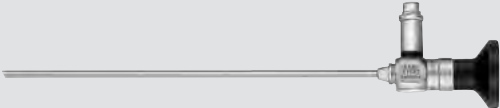
SUCTION AND
IRRIGATION SYSTEMS

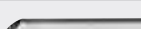
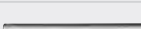
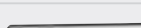
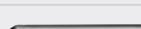
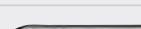
Suction-Irrigation Sheaths, proximally reinforced for use with Holder 28272 RKB

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

2-041

Holder ^{NEW}

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

Optional Accessories

for Suction and Irrigation Systems

			for use with	
			ENDOMAT® LC SCB 20 3303 01-1	DUOMAT® 20 3210 08
	26 3100 38	Pressure Infusion Cuff , 1.5 l, max. 400 mmHg, sterilizable	-	•
	26 3101 38	Pressure Infusion Cuff , 3 l, max. 400 mmHg, sterilizable	-	•
	26 3100 35	Bottle Cap , sterilizable, for use with irrigation bottles 1 l and 1.5 l, sterile (cylindrical and square) type Abbott and Baxter Laboratories	-	•
	26 3102 35	Bottle Cap , sterilizable, for use with irrigation bottle 1 l, sterile (round), type Fresenius and B. Braun (old type), Delta Pharma (round)	-	•
	26 3103 35	Bottle Cap , sterilizable, for use with irrigation bottle 1 l, sterile (round or square), type B. Braun (old type) and Delta Pharma	-	•
	20 3000 52	Suction Bottle , 1.5 l, sterilizable	-	•
	20 3000 34	Bottle Cap , for suction bottles 1.5 l and 5 l, sterilizable	-	•
	20 3001 30	Bottle Stand , for suction bottle 1.5 l or irrigation bottle 1 l	-	•
	26 3100 50	Irrigation Liquid Bottle , 1 l, sterilizable	-	•
	20 3000 50	Suction Bottle , 5 l, sterilizable	-	•
	20 3000 34	Bottle Cap , for suction bottles 1.5 l and 5 l, sterilizable	-	•
	20 3000 32	Bottle Stand , for suction bottle 5 l	-	•
	20 3000 33	Bottle Stand Holder , 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	One-Pedal Footswitch , digital, two-stage, for activating a higher flow for improved visibility	●	-
	20 0141 30	One-Pedal Footswitch , digital, one-stage, for irrigation	●	-
	20 3000 42	Silicone Tubing Set , for suction, sterilizable	-	●
	20 3000 44	Silicone Tubing Set , for suction, sterilizable, short	-	●
	20 3000 46	Silicone Tubing Set , sterilizable, for use with Pressure Infusion Cuff 26 3100 38, 26 3101 38	-	●
	20 3000 45	Silicone Tubing Set , for irrigation, sterilizable, for use with Bottle Caps 26 3100 35, 26 3102 35, 26 3103 35 and Puncture Needle 26173 VG	-	●
	031124-10*	Bacterial Filter , for single use, package of 10	-	●
	mtp*	Receptacle , reusable, 2 l suction bag, with filter, for single use	-	●
	mtp*	Tubing Set , for suction, sterile, for single use	-	●

SUCTION AND
IRRIGATION SYSTEMS



■ 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
 - Dermatorome
- 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

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



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 ²	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

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

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.



Optional Accessories

for UNIDRIVE® OMFS

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

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 burrs, transmission 1:1 (40,000 rpm)

252490

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

252495

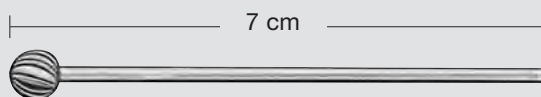
INTRA Drill Handpiece, straight, long shape, length 10.4 cm, for use with straight shaft burrs, transmission 1:1 (40,000 rpm)

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 20711032 and Connecting Cable 20711172 see page U 24
Components/Spare Parts see chapter 16

**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

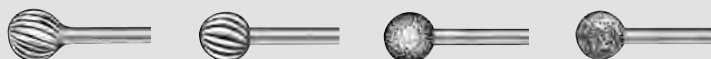
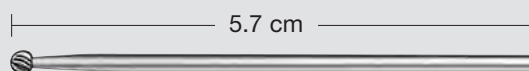
Tungsten Carbide Straight Shaft Burr,
with cross cut, stainless, sizes 014 – 060,
length 7 cm, set of 6

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

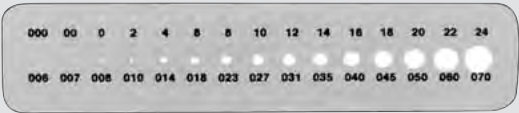
Burrs and Burr Accessories

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



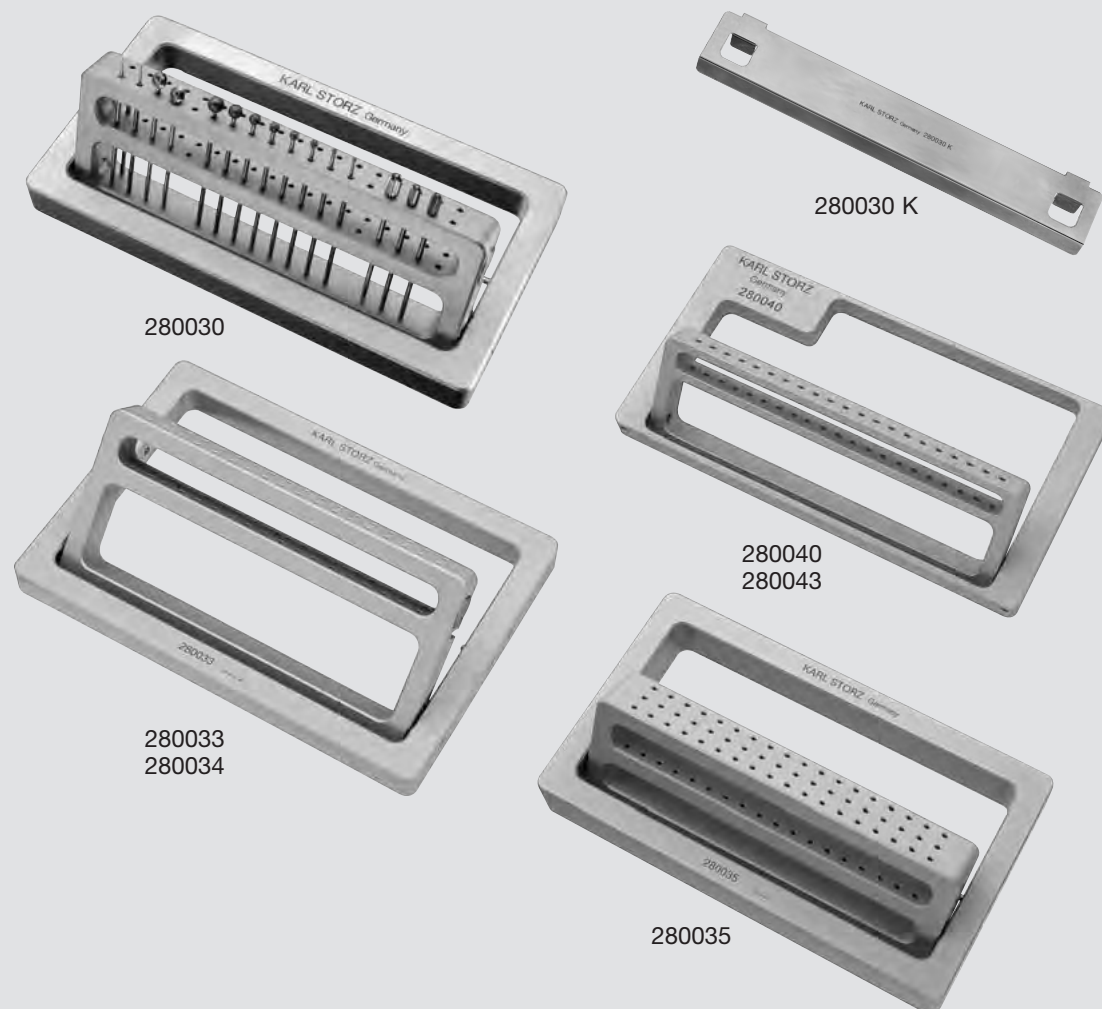
280080



280120

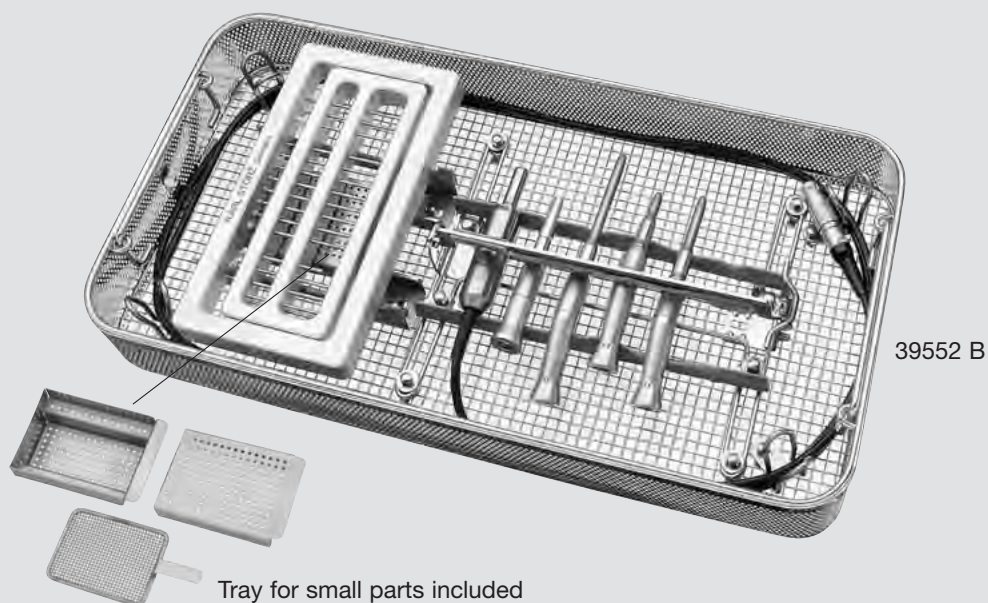
- 280090 **Size Template**, for drills, stainless steel, sterilizable
- 280080 **Brush**, for cleaning atraumatic jaws, sterilizable, package of 5
- 280120 **Temporal Bone Holder**, bowl-shaped, with 3 fixation screws for tensioning the petrosal bone and with evacuation tube for irrigation liquid

Burr Accessories



280030	Rack , for 36 straight shaft burs 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 burs with a length of 7 cm and 16 burs with a length of 5.7 cm, size 16 x 2.5 x 1 cm
280033	Rack , for 36 straight shaft burs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
280034	Rack , for 36 straight shaft burs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
NEW 280035	Rack , for 54 straight shaft burs 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 burs 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 burs 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 burs
- 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

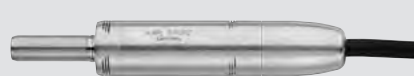


254175

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

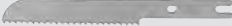
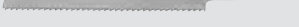
Micro Compass Saws



254300

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

Saw Blades, for use with 254300

	254312	Saw Blade , blade thickness 0.25 mm, working length 11 mm, package of 12, for use with 254300
	254313	Same , working length 14 mm
	254314	Same , working length 18 mm
	254315	Same , working length 22 mm
	254316	Same , working length 26 mm

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

Oscillating Micro Saws



254000



20 7110 32/20 7110 72

254000

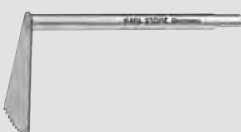
Oscillating Micro Saw, inbuilt irrigation tube, recommended maximum speed 15,000 rpm corresponds to 15,000 oscillations/min., without saw blades, with fork wrench

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

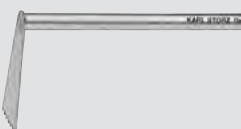
Same, width of blade 15 mm



254030

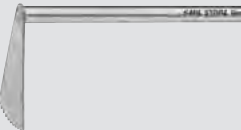
Same, blade thickness 0.15 mm, width of blade 6 mm

Saw Blades, long shaft, for use with 254000



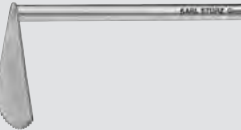
254027

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

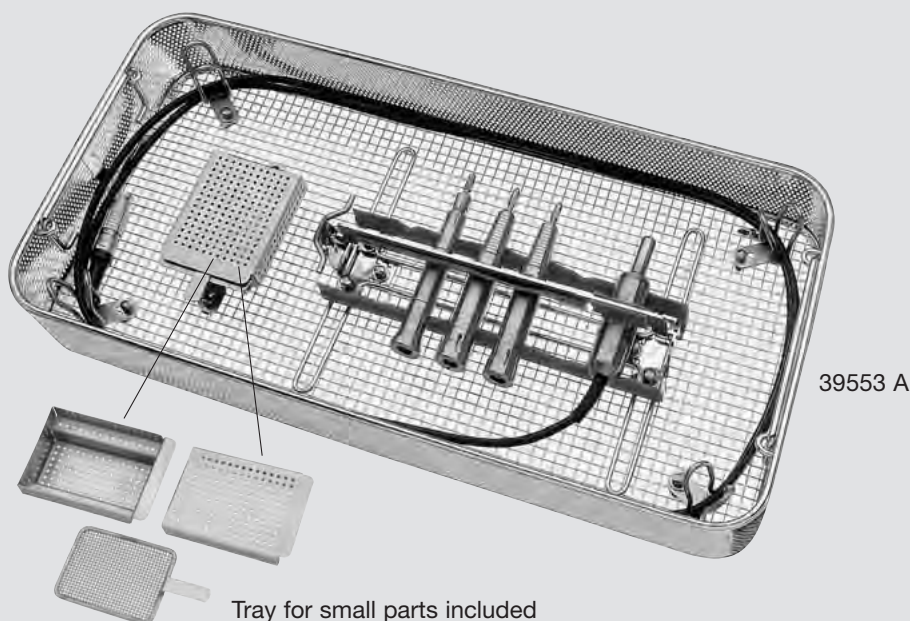
Same, width of blade 15 mm



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



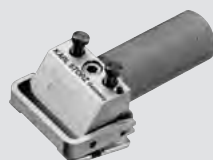
253000

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

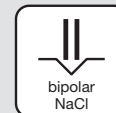
NEW AUTOCON® II 400 SCB

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 ^{NEW}

Safety and Special Features

STORZ
KARL STORZ — ENDOSKOPE

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.



HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB, ^{NEW} AUTOCON® II 200/80

Special Features

STORZ
KARL STORZ — ENDOSKOPE

Special Features:

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 ($U_p > 500$ 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

AUTOCON® II 200

AUTOCON® II 80

●	●	-
●	-	-
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●	-	-
●	●	-
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●	●	-
●	●	●
●	-	-
●	-	-
●	-	-
●	-	-
●	-	-

AUTOCON® II 400 SCB ^{NEW}

Specifications

HF Modes	Effects	P max. at 500 Ohm	V _p max. at 500 Ohm	Crest Factor	Arc Control	Voltage Control
Unipolar						
TOP-Cut	8	300	950	1.4	●	—
POWER-Cut	8	300	740	1.4	—	●
C-Cut®	8	200	1450	3.0	—	●
LAP-C-Cut	8	200	1450	3.0 – 3.8	—	●
Gastro-Cut	4	200	880	1.4	—	●
Papillo-Cut	4	200	880	1.4	—	●
Standard Coag	8	200 (at 50 Ohm)	190	1.4	—	●
Forced Coag	4	120	1800	6.0	—	●
Spray Coag	2	120	4300	7.4	—	●
Bipolar						
Bipolar-Cut	8	100	740	1.4	—	●
Saline-C-Cut	8	370	770	1.4	—	●
Saline-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	- Automatic self-test - Maldosage - Neutral electrode safety system (dynamic, two-part, one- and two-part NE) - LF/HF leakage current monitor - Activation time - Deactivable HF

Power supply	20 5352 2x-12x: 220-240 VAC, 50/60 Hz 20 5352 2xU12x: 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 ^{NEW}

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

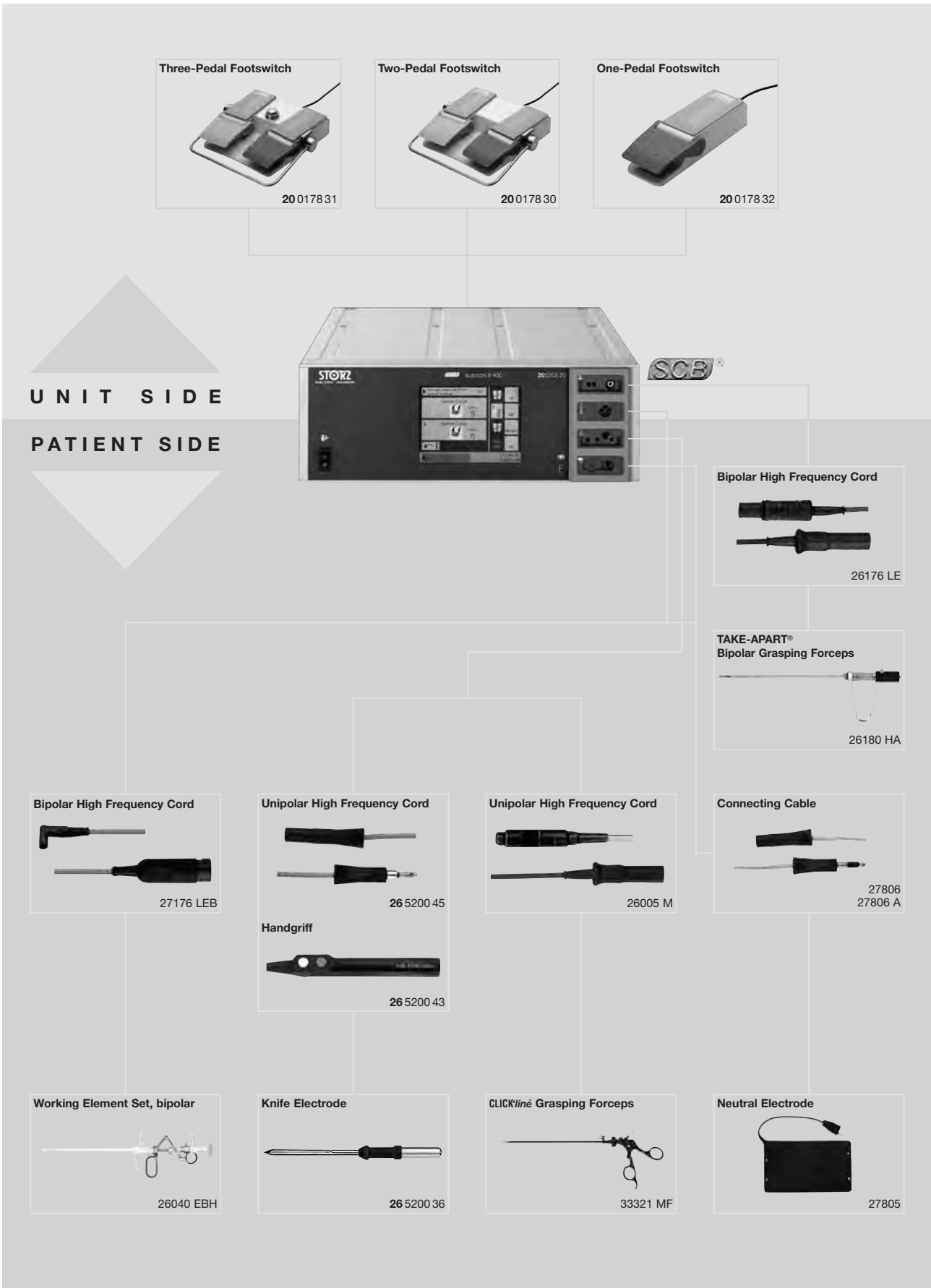
AUTOCON® II 400 SCB,
power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

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.	20 5352 01-122 20 5352 01U122	20 5352 01-125 20 5352 01U125 basic unit
	–	20 5352 02-125 20 5352 02U125 basic unit, incl. additional resection module
	–	20 5352 03-125 20 5352 03U125 basic unit, incl. Bi-Vascular-Safe mode
	–	20 5352 04-125 20 5352 04U125 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 ^{NEW}

System Components





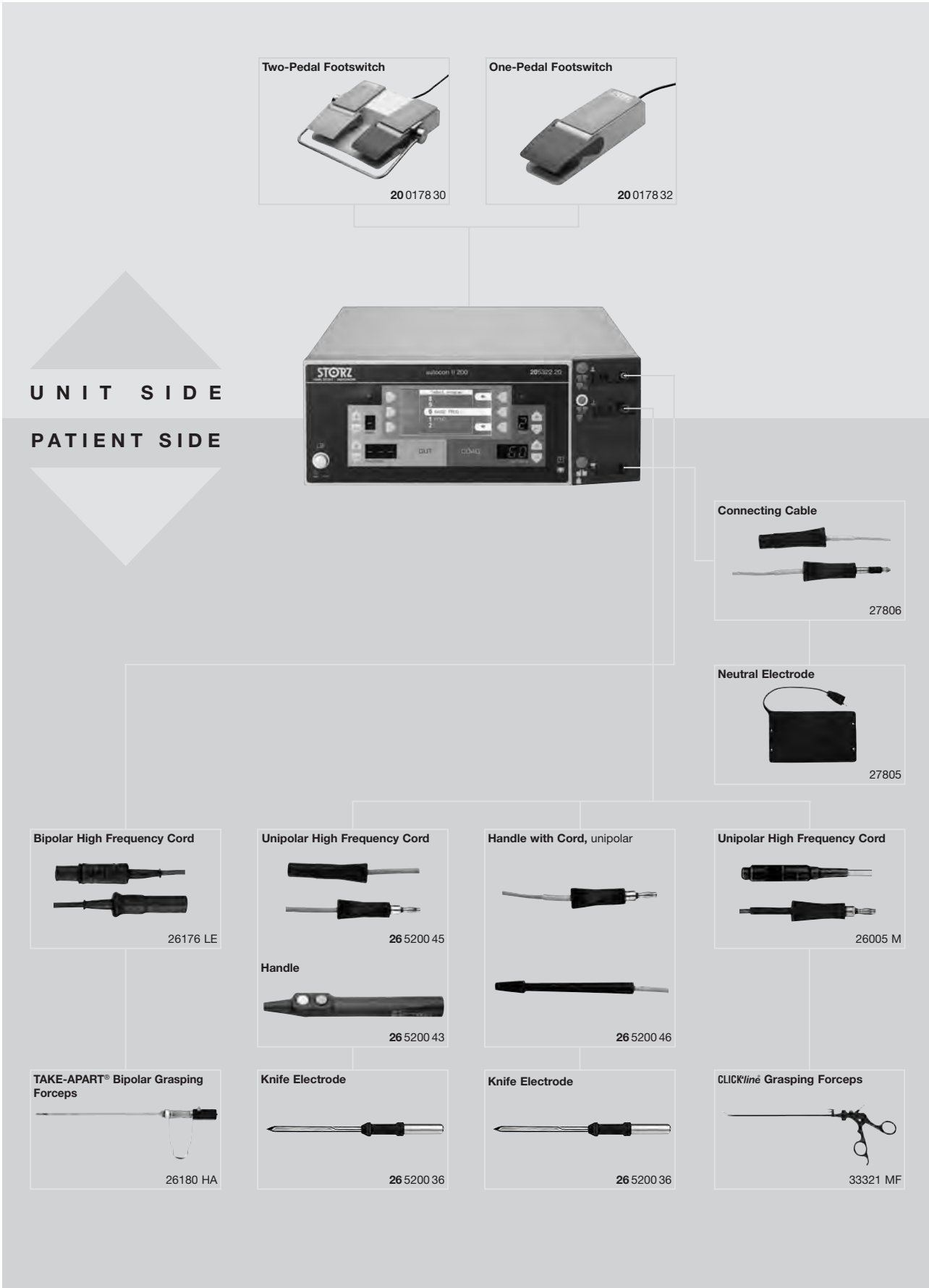
- 20 5322 01 **AUTOCON® II 200**, power supply
200 – 240 VAC, 50/60 Hz
including:
Mains Cord
- 20 5322 01 C **AUTOCON® II 200**, power supply
100 – 120 VAC, 50/60 Hz
including:
Mains Cord, US version
- 20 5322 01-010 **AUTOCON® II 200**, with GASTRO-Cut,
power supply 200 – 240 VAC, 50/60 Hz
including:
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	- Cutting Power-Cut (unipolar): 220 Watt/500 Ohm GASTRO-Cut (unipolar): 200 Watt/75 Ohm - Coagulation Standard-Coag (unipolar): 120 Watt/50 Ohm Forced-Coag (unipolar): 120 Watt/500 Ohm Standard-Coag (bipolar): 120 Watt/75 Ohm
Max. voltage	- Cutting Power-Cut (unipolar): 740Vp GASTRO-Cut (unipolar): 550Vp - Coagulation Standard-Coag (unipolar): 190Vp Forced-Coag (unipolar): 1800Vp Standard-Coag (bipolar): 190Vp
Degree of coagulation	Power-Cut: 8 GASTRO-Cut: 4 Standard-Coag: 8 Forced-Coag: 4 Bipolar Standard-Coag: 8

Autostart	Coagulation bipolar
Autostop	Coagulation unipolar standard
Safety systems	- permanent power control - maldosage - neutral electrode safety system - automatic Self-Test
Power supply	100-120 VAC or 200-240 VAC, 50/60 Hz
Dimensions w x h x d	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



HIGH FREQUENCY SURGERY UNITS



20 5308 01

AUTOCON® II 80,

power supply 100 – 240 VAC,

50/60 Hz

including:

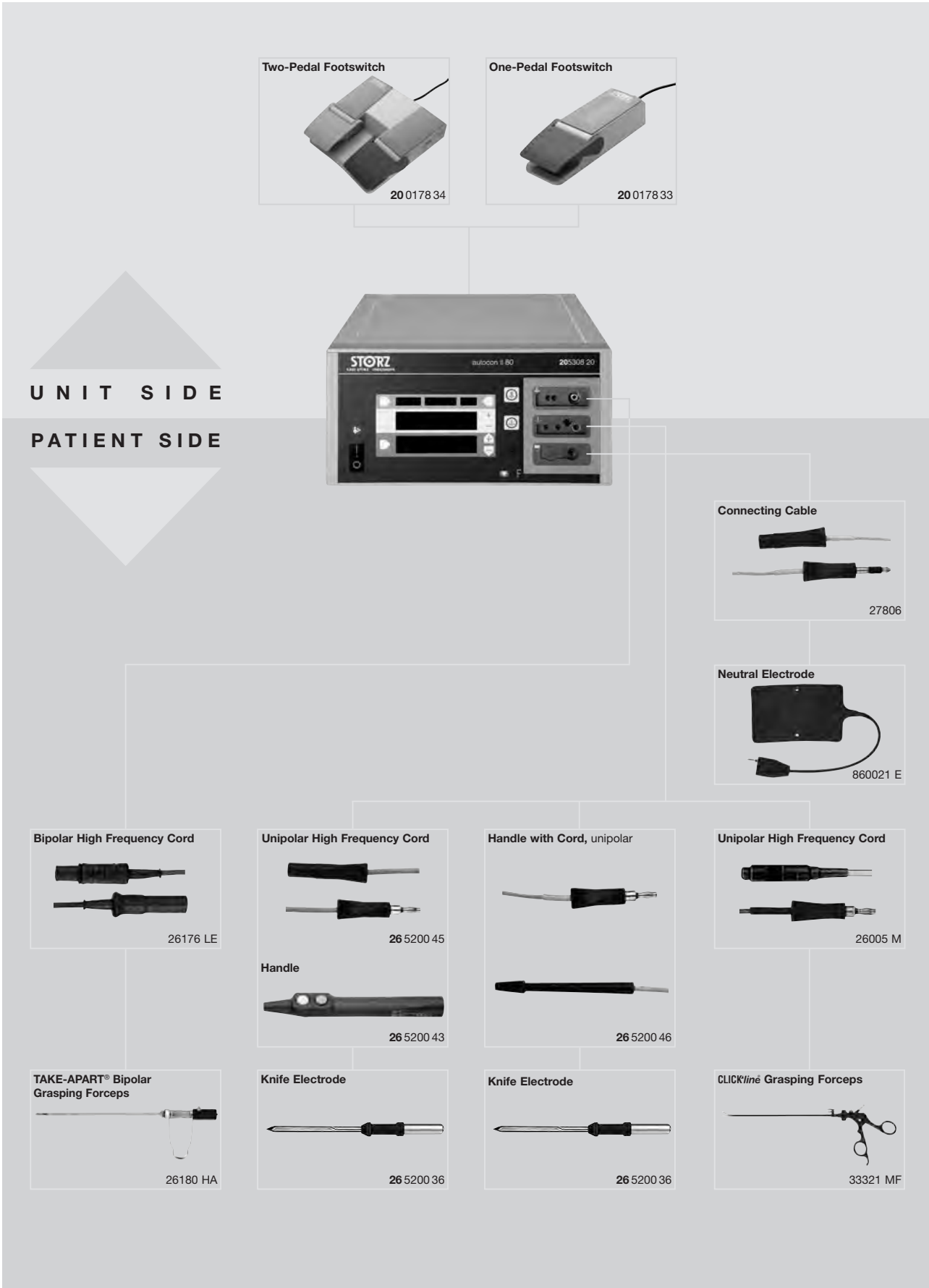
Mains Cord

Specifications:

HF rated power	- Dry Cut: 80 Watt/500 Ohm - Forced Coag: 50 Watt/500 Ohm - Soft Coag: 80 Watt/100 Ohm - Auto Cut: 80 Watt/500 Ohm - Bipolar Soft: 80 Watt/100 Ohm
Max. voltage	- Dry Cut: 830Vp - Forced Coag: 1200Vp - Soft Coag: 180Vp - Auto Cut: 500Vp - Bipolar Soft: 180Vp

Safety systems	- permanent power control - maldosage - neutral electrode safety system - automatic self-test
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

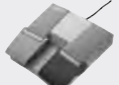
Optional accessories for AUTOCON® 80 see page U 50
Components/Spare Parts see chapter 16



HIGH FREQUENCY SURGERY UNITS

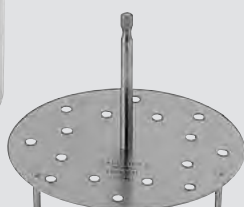
Optional Accessories

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

			for use with		
			AUTOCON® II 400 SCB	AUTOCON® II 200	AUTOCON® II 80
	20 0178 31	Three-Pedal Footswitch , with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB	●	-	-
	20 0178 30	Two-Pedal Footswitch , for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	-
	20 0178 32	One-Pedal Footswitch , for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	●	-
	20 0178 34	Two-Pedal Footswitch , digital, one-stage	-	-	●
	20 0178 33	One-Pedal Footswitch , digital, one-stage	-	-	●
	27805	Neutral Electrode , of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm², for use with Connecting Cable 27806	●	●	●
	860021 E	Neutral Electrode , of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm², for use with Connecting Cable 27806	-	-	●
	27806	Neutral Electrode Connecting Cable , for Neutral Electrodes 27805 and 860021 E, length 400 cm	-111 -115 -122 -125	●	●
	27806 UR	Neutral Electrode Connecting Cable , for Neutral Electrode 27805	-112 -116 -122 -125	●	●
	27806 US	Neutral Electrode Connecting Cable , for Neutral Electrode 27802	-112 -116 -122 -125	●	●
	27802	Neutral Electrode , for single use, contact surface divided into two, A = 169 cm², package of 50, Connecting Cable 27801 required	●	●	●
	27801	Connecting Cable , for connecting Neutral Electrode 27802, length 500 cm	-111 -115 -122 -125	●	●
	26 5200 43	Electrode Handle , with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable 26 5200 45 required)	●	●	●
	26 5200 45	High Frequency Cable , for Electrode Handle 26 5200 43, length 400 cm	-111 -115 -122 -125	●	●
	26 5200 46	Electrode Handle , 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

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
Instruments

High Frequency
Surgery Units

	26002 M	Unipolar High Frequency Cord , with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
	26004 M	Unipolar High Frequency Cord , with 4 mm plug for models Berchtold and Martin, length 300 cm
	26005 M	Unipolar High Frequency Cord , with 5 mm plug 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	Unipolar High Frequency Cord , 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
Instruments

High Frequency
Surgery Units

	26176 LE	Bipolar High Frequency Cord , for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
	26176 LM	Bipolar High Frequency Cord , for Martin and Berchtold coagulators, length 300 cm
	26176 L	Bipolar High Frequency Cord , with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm
	26176 LA	Bipolar High Frequency Cord , with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
	26176 LV	Bipolar High Frequency Cord , for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm



	20 5400 21	BiVascularClamp , total length 20 cm, with thermoinsulation, for open surgery, integrated MF cable length 4 m
	20 5400 22	Same , total length 21 cm, with corrugated jaws
	20 5400 23	Same , total length 27 cm

Compatibility

High Frequency Cords to AUTOCON® HF Surgical Units



AUTOCON® II 80	20 5308 20	—	20 5308 20	—	—
AUTOCON® II 200	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	—	—
AUTOCON® II 400 SCB	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

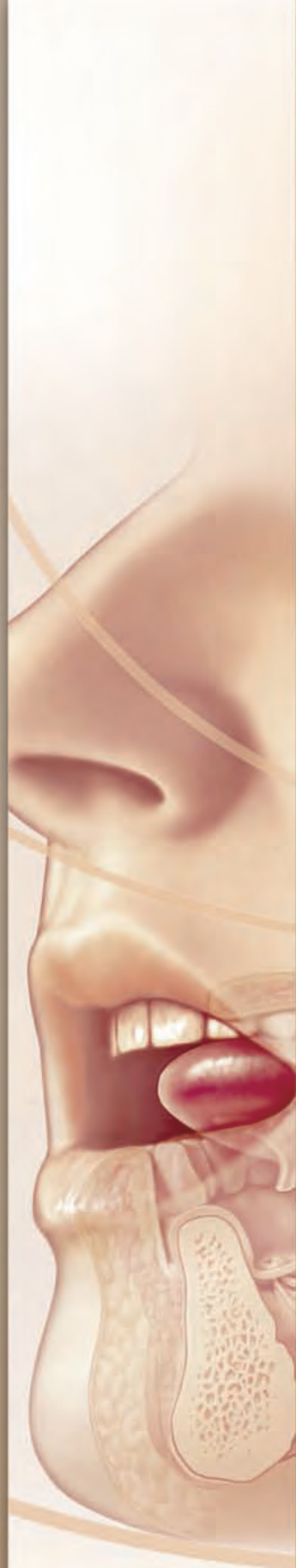
27806	●	—	●	●	●
27801	●	—	●	●	●
27806 UR	—	●	●	●	●
27806 US	—	●	●	●	●
26 5200 45	●	—	●	●	●
26 5200 46	●	—	●	●	●
26002 M	●	●	●	●	●
26005 M	●	—	●	●	●
26006 M	—	●	—	—	—

Bipolar High Frequency Cords

26176 LE	●	—	●	●	●
26176 LV	—	●	●	●	●

Bipolar High Frequency Cords/Instruments to Multifunction Socket

AUTOCON® II 400	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.

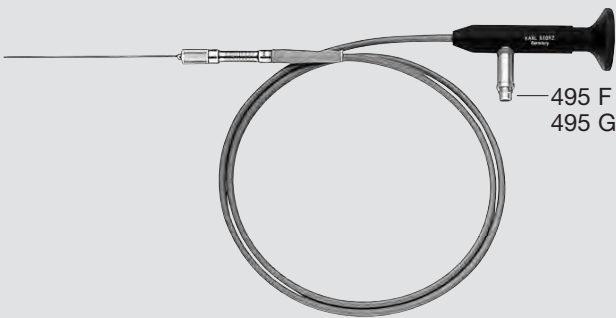
For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

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:

Components / Spare Parts		Catalog page
11576 A	Miniature Straight Forward Telescope 0°	124
11577 A	Miniature Straight Forward Telescope 0°	126



Spare Parts	
	495 F Receptacle, diameter 9 mm, for Wolf fiber optic light cable
	495 G Screw Base, for KARL STORZ fiber optic light cable and Olympus/Winter & Ibe

Spare parts assigned to instrument with catalog page reference and order numbers for individual components/spare parts

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Tele-Laryngoscopes, Tele-Laryngo-Pharyngoscopes	SP 7
Optical Dissectors, Telescope Sheaths	SP 8

RHINO-FIBERSCOPES

SP 9

GRASPING FORCEPS AND SCISSORS

CLICK <i>line</i> ® Outer Sheaths with Working Inserts, Flexible Forceps	SP 10-SP 11

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Mouth Gags and Cartilage Cutting Blocks	SP 12
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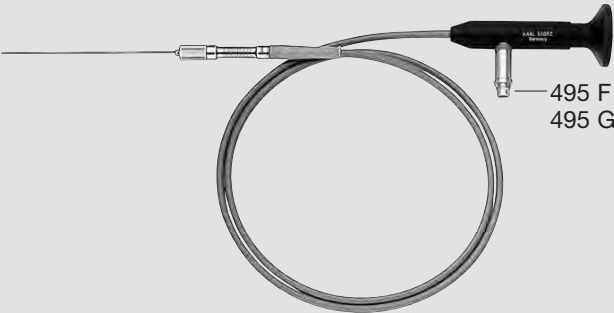
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5908702	SP 43	7230 CWA	SP 5	8712 BP	SP 6
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Spare Parts

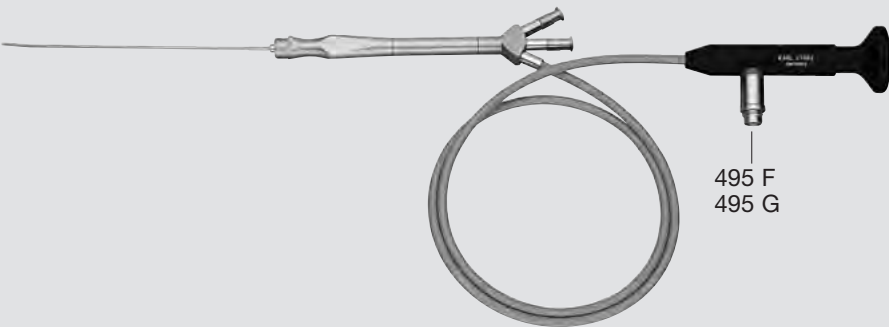


495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable



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

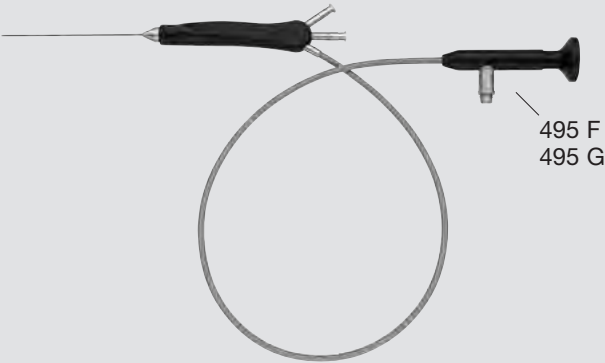


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Telescopes

Miniature Telescopes, HOPKINS® Telescopes

Components / Spare Parts		Catalog page
11572 A	Miniature Straight Forward Telescope 0°	122
11573 A	Miniature Straight Forward Telescope 0°	122
11574 A	Miniature Straight Forward Telescope 0°	122



Spare Parts

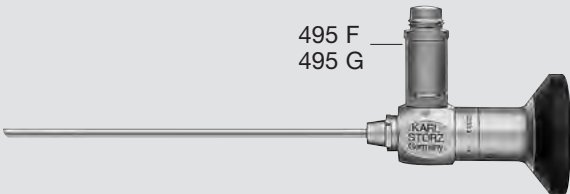


495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable



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

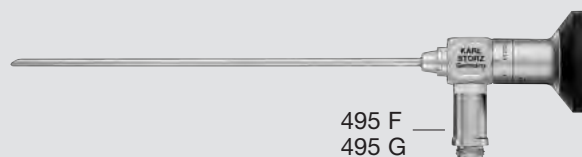


495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

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

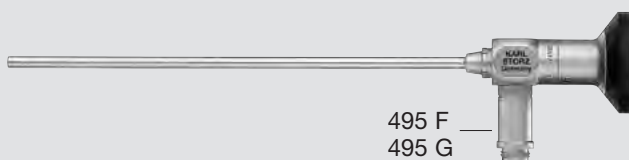


495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable



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

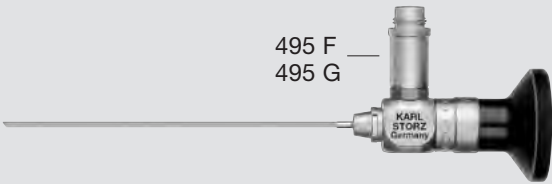


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

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

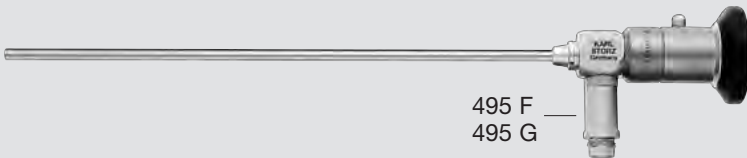


495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable



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

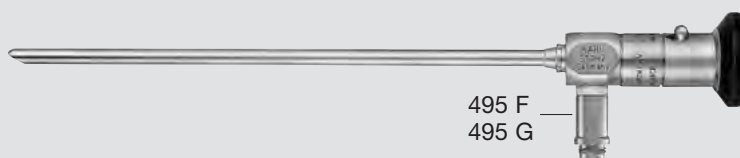
Components / Spare Parts

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

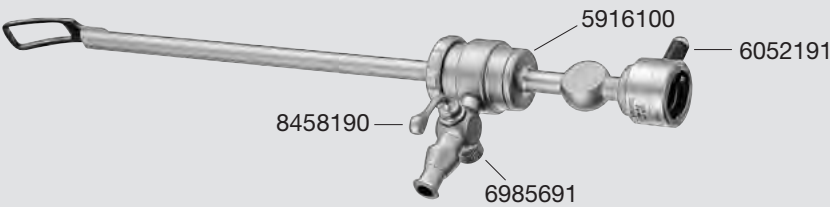


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Telescopes

Optical Dissectors, Telescope Sheaths

Components / Spare Parts		Catalog page
58200 ER	Optical Dissector	40
58200 ES	Optical Dissector	40



Spare Parts



5916100
O-Ring



6985691
Spring Cap

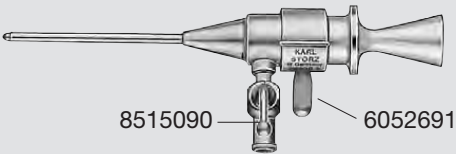


6052191
Locking Lever



8458190
Stopcock

Components / Spare Parts		Catalog page
58706 AN	High-Flow Arthroscope Sheath	56
58706 BN	High-Flow Arthroscope Sheath	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

CLICKline® Outer Sheaths with Working Inserts, Flexible Forceps

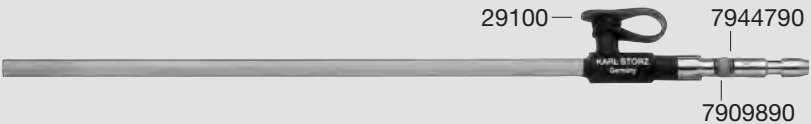
Components / Spare Parts		Catalog page
50220 R	CLICKline® Outer Sheath, insulated	47, 48



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	CLICKline® Metal Outer Sheath	46



Spare Parts

	29100 Plug , for LUER-Lock connector for cleaning, black, autoclavable, package of 10		7909890 Halfround Plate
	8240990 Plug , single, for LUER-Lock connection for cleaning, black, autoclavable		7944790 Silicone Ring

Grasping Forceps and Scissors

CLICK'line® Outer Sheaths with Working Inserts, Flexible Forceps

Components / Spare Parts		Catalog page
50221 GW	CLICK'line® Outer Sheath with Scissors Insert	49
50222 F	CLICK'line® Outer Sheath with Forceps Insert	48
50222 GG	CLICK'line® Outer Sheath with Forceps Insert	49
50222 GW	CLICK'line® Outer Sheath with Forceps Insert	47, 49
50235 GW	CLICK'line® Outer Sheath with Scissors Insert	49
50236 GW	CLICK'line® Outer Sheath with Forceps Insert	49



Spare Parts

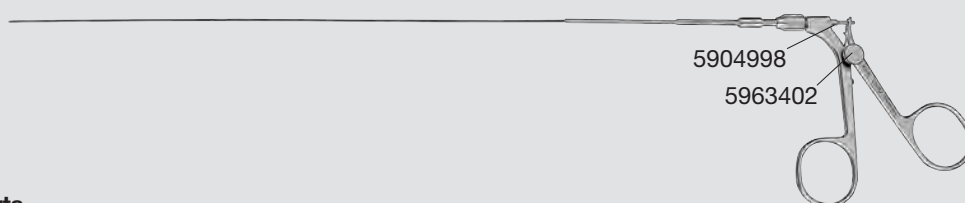


29100
Plug, for LUER-Lock connector for cleaning, black, autoclavable, package of 10



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

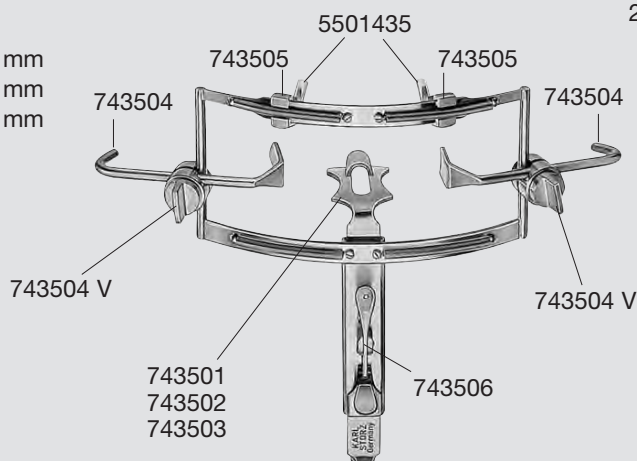
Mouth Gags and Cartilage Cutting Blocks

Components / Spare Parts

Catalog page

- 743500** DINGMANN Mouth Gag
- 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**

211



Spare Parts



5501435
Silicone Tubing

Components / Spare Parts

Catalog page

- 231020** MILEWSKI Cartilage Cutting Block
- 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

231



CartCut® Cartilage Cutter

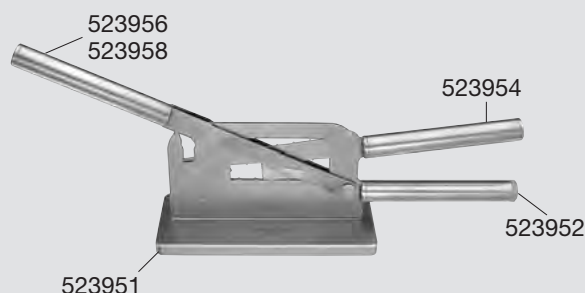
Components / Spare Parts

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



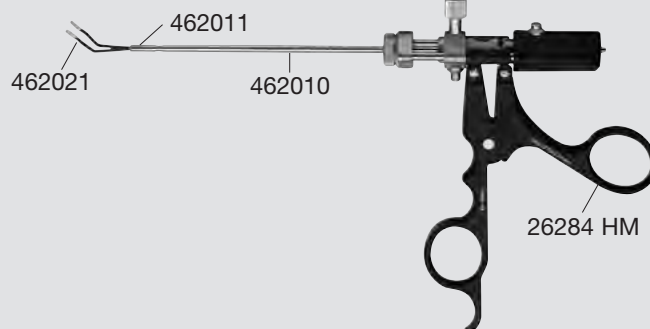
Components / Spare Parts

Catalog page

462020 TAKE-APART® CASTELNUOVO Bipolar Forceps

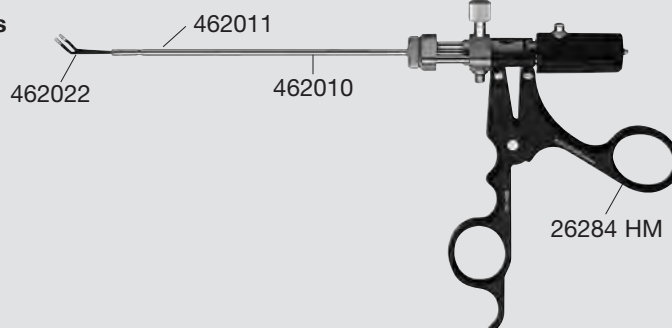
301

- 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

314

074091 Headmirror, diameter 90 mm

074095 Headband, narrow

075090 Headmirror Standard

074091 Headmirror, diameter 90 mm

075095 Headband, wide

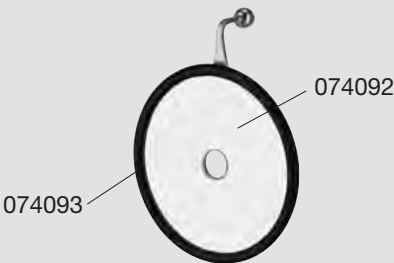


Components / Spare Parts

Catalog page

074091 Headmirror, diameter 90 mm

314



Spare Parts



074092
Mirror Glass,
diameter 90 mm



074093
Rubber Ring,
diameter 90 mm



074094
Back Wall,
diameter 90 mm

Components / Spare Parts

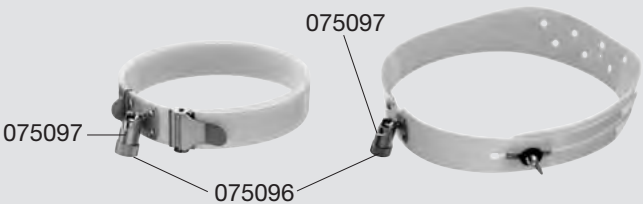
Catalog page

074095 Headband, narrow, for 074090

314

075095 Headband, wide, for 075090

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

314

- 077090** ZIEGLER **Headmirror**
076091 **Headmirror**, diameter 90 mm
077095 **Headband**, wide

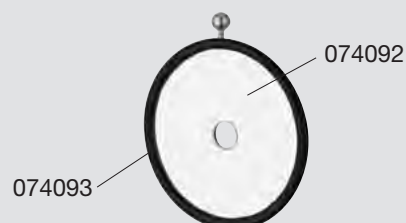


Components / Spare Parts

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

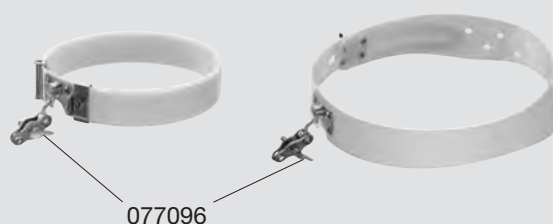
Components / Spare Parts

Catalog page

- 076095** ZIEGLER **Headband**, narrow, for 076090
077095 ZIEGLER **Headband**, wide, for 077090

314

314



Spare Parts



077096
Double Joint

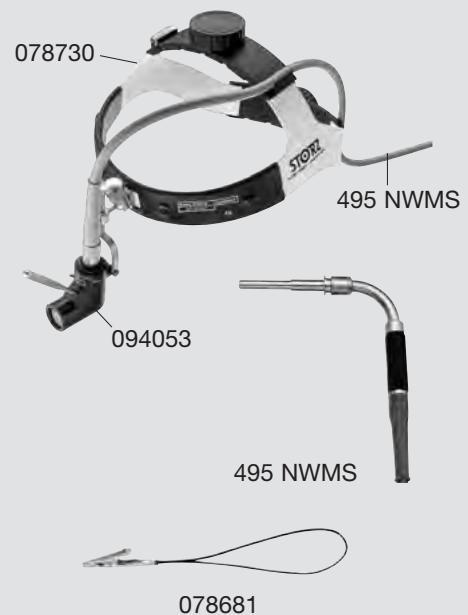
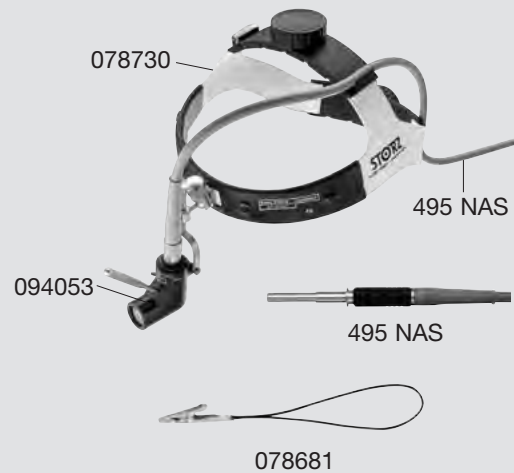
Headlights

Components / Spare Parts

Catalog page

- 094051 Headlight**
- 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

319



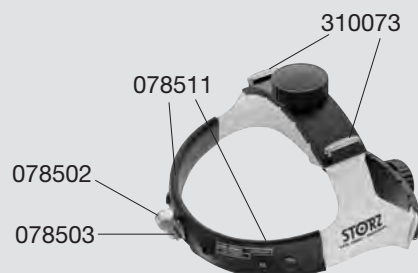
Headlights

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

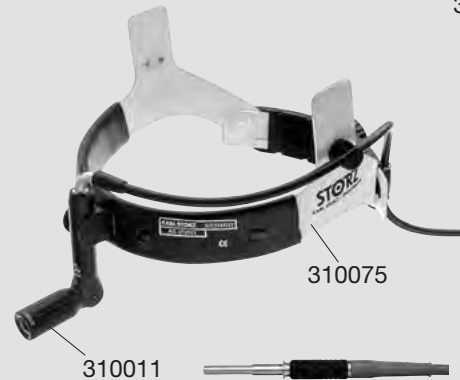
Headlights

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

320



- 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

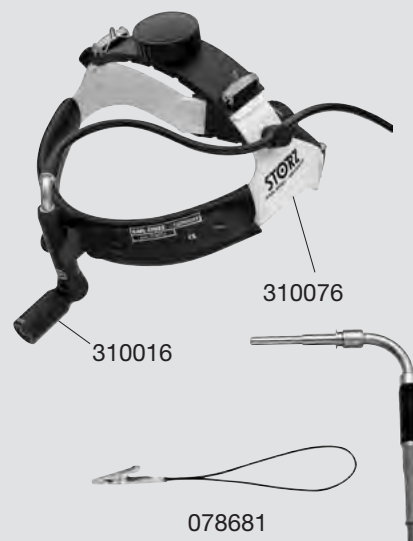
Catalog page

- 310020** **Headlight**, with straight plug
- 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



320

- 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

322



- 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

Components / Spare Parts		Catalog page
094100	LED Headlight , with white light	317
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	
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
- 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



317

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

Spare Parts for Headbands, see page SP 24

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

323



078681

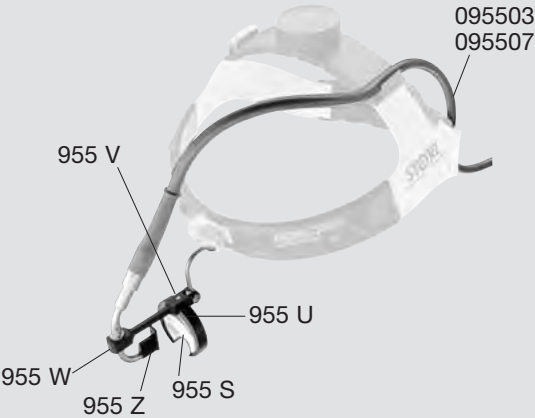
- 095505** **Headlight "CLAR 73"**, with 90° deflection
- 095506** **Headlight "CLAR 73"**, with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with 90° deflection to the light source
- 078730** **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball 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

Components / Spare Parts		Catalog page
095502	Headlight “CLAR 73”, with straight plug	323
095506	Headlight “CLAR 73”, with 90° deflection	323



Spare Parts	
	955 S Mirror
	955 U Metal Holder, for mirror
	955 V Fixation Screw, for metal holder (mirror)
	955 W Fixation Screw, for fiber optic light cable
	955 Z Fixation Screw, set of 2

	Spare part for 095502
	095503 Integral Fiber Optic Light Cable, with straight plug
	Spare part for 095506
	095507 Integral Fiber Optic Light Cable, with 90° deflection

Headlights

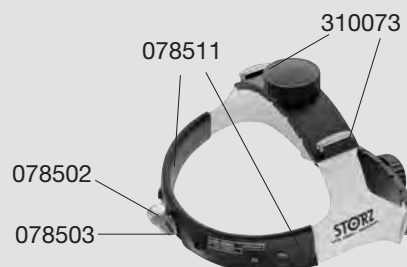
Headlights "CLAR 73"

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



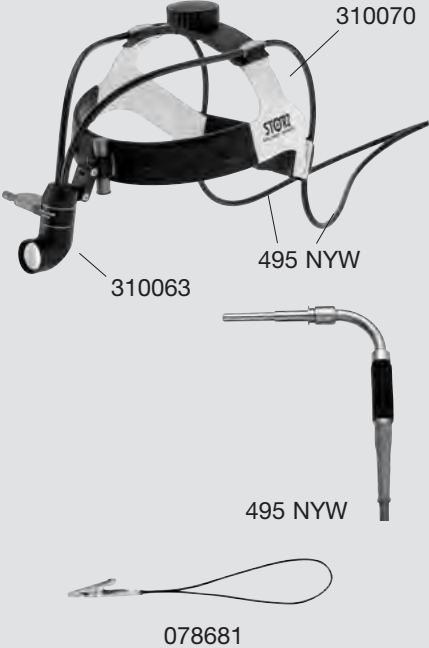
078503
Brake Cylinder, 3-part,
for ball joint



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"	315
087201	Headlight "CLAR 55"	
108210	Headlight Cable, complete, length 240 cm	
087290	Headband, wide	
087284	Spare Lamp, 6 V	



Components / Spare Parts		Catalog page
087290	Headband, wide, for “CLAR 55”	315



087294

087295

087296

087297

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

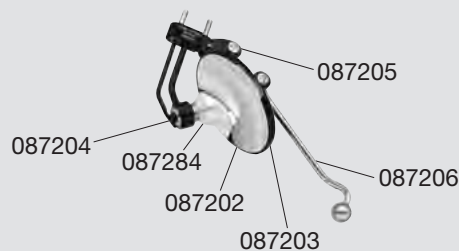
Headlights "CLAR 55"

Components / Spare Parts

Catalog page

087201 Headlight "CLAR 55"

315



Spare Parts



**087202
Mirror**



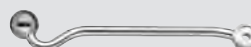
**087203
Mirror Tray**



**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

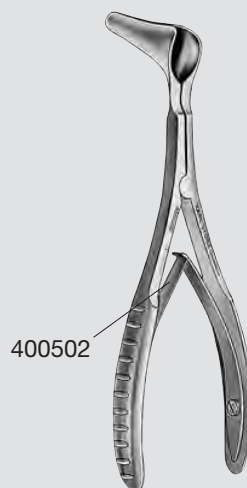
Catalog page

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

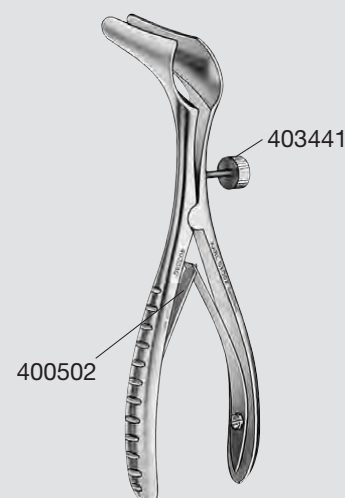
403340	KILLIAN-STRUYCKEN Nasal Speculum	245
403355	KILLIAN-STRUYCKEN Nasal Speculum	245
403375	KILLIAN-STRUYCKEN Nasal Speculum	245
403390	KILLIAN-STRUYCKEN Nasal Speculum	245
403440	KILLIAN-STRUYCKEN Nasal Speculum	—
403455	KILLIAN-STRUYCKEN Nasal Speculum	—
403475	KILLIAN-STRUYCKEN Nasal Speculum	—
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	—



400502
Spring, for nasal speculum



403441
Set Screw



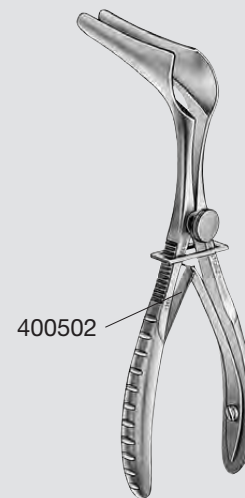
Nasal Specula

Components / Spare Parts

Catalog page

403240	KILLIAN-STRUYCKEN Nasal Speculum
403255	KILLIAN-STRUYCKEN Nasal Speculum
403265	KILLIAN-STRUYCKEN Nasal Speculum
403275	KILLIAN-STRUYCKEN Nasal Speculum
403290	KILLIAN-STRUYCKEN Nasal Speculum

245
245
245
245
245



Spare Parts



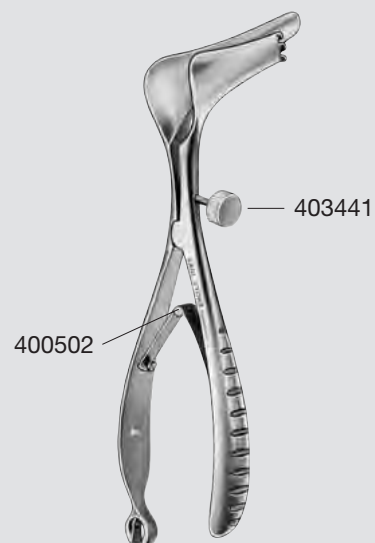
400502
Spring, for nasal speculum

Components / Spare Parts

Catalog page

404455	RUDERT Nasal Speculum
404465	RUDERT Nasal Speculum
404475	RUDERT Nasal Speculum
404555	RUDERT Nasal Speculum
404565	RUDERT Nasal Speculum
404575	RUDERT Nasal Speculum

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247
247
247
247
247



Spare Parts



400502
Spring, for nasal speculum



403441
Set Screw

Nasal Specula, Septum Morcelizers

Components / Spare Parts

Catalog page

404040 Nasal Speculum

246

404055 Nasal Speculum

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

263

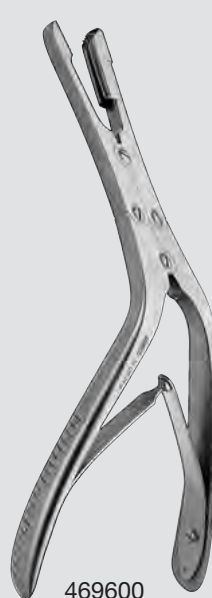
488038 RUBIN Septum Morcelizer

296

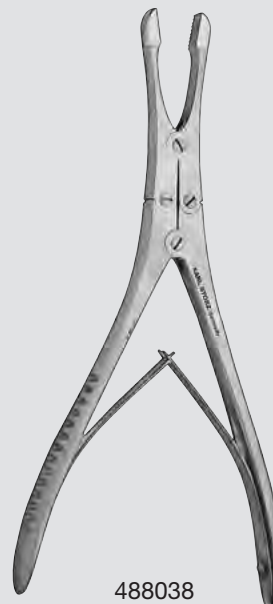
Spare Parts



**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

204405	PLESTER Suction Tube	158
204407	PLESTER Suction Tube	158
204408	PLESTER Suction Tube	158
204409	PLESTER Suction Tube	158

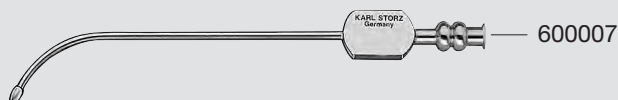


Spare Parts

for 204405	204405 E Stylet
for 204407	204407 E Stylet
for 204409	204409 E Stylet

Components / Spare Parts Catalog page

586025	v. EICKEN Antrum Cannula	71
586030	v. EICKEN Antrum Cannula	71
586040	v. EICKEN Antrum Cannula	71
586125	v. EICKEN Antrum Cannula	71
586130	v. EICKEN Antrum Cannula	71
586225	v. EICKEN Antrum Cannula	71
586230	v. EICKEN Antrum Cannula	71
586240	v. EICKEN Antrum Cannula	71



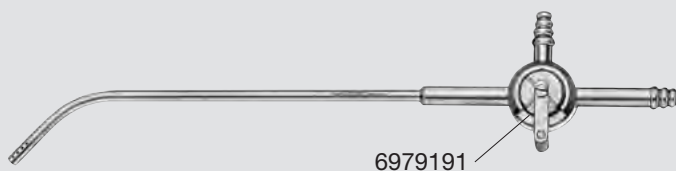
Spare Parts



600007
LUER-Lock Tube
Connector, male,
tube diameter 6 mm

Components / Spare Parts Catalog page

50207 B	Suction and Irrigation Tube	54
50207 BG	Suction and Irrigation Tube	54



Spare Parts

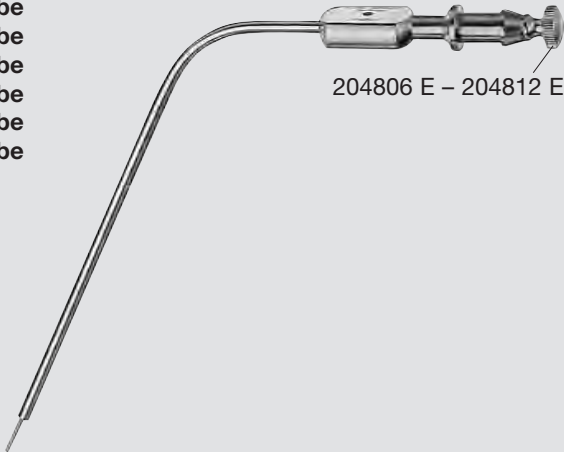


6979091
Spring Cap



6979191
Stopcock

Components / Spare Parts		Catalog page
204806	FERGUSON Suction Tube	158
204808	FERGUSON Suction Tube	158
204809	FERGUSON Suction Tube	158
204810	FERGUSON Suction Tube	158
204812	FERGUSON Suction Tube	158
204815	FERGUSON Suction Tube	158



Spare Parts

for 204808	204806 E Stylet
for 204806	204808 E Stylet
for 204809	204809 E Stylet

for 204810	204810 E Stylet
for 204812	204812 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

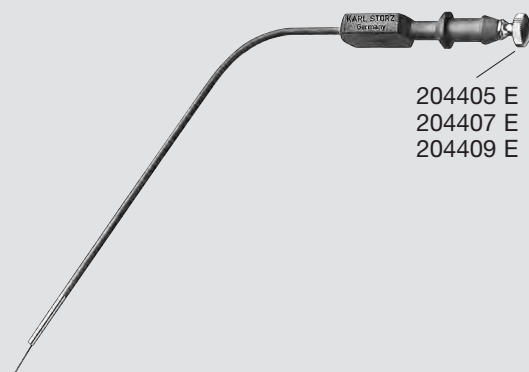
Suction and Irrigation Tubes

Suction Tubes

Components / Spare Parts		Catalog page
488084	FERGUSON Suction Tube	297
488085	FERGUSON Suction Tube	297
488086	FERGUSON Suction Tube	297

Spare Parts

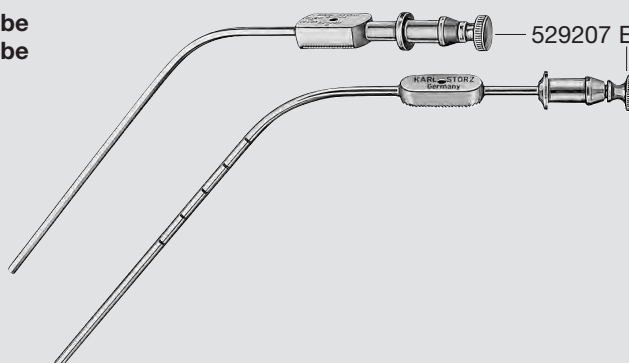
for 488084	488084 E Stylet
for 488085	488085 E Stylet
for 488086	488086 E Stylet



Components / Spare Parts		Catalog page
529205	FRAZIER Suction Tube	292
529207	FRAZIER Suction Tube	292

Spare Parts

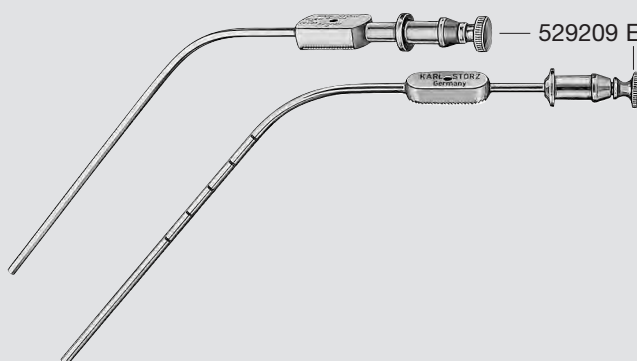
529207 E
Stylet



Components / Spare Parts		Catalog page
529209	FRAZIER Suction Tube	292

Spare Parts

529209 E
Stylet



Tongue Blades

Components / Spare Parts		Catalog page
743910	DAVIS-MEYER Tongue Blade	212
743915	DAVIS-MEYER Tongue Blade	212
743920	DAVIS-MEYER Tongue Blade	212
743925	DAVIS-MEYER Tongue Blade	212
743930	DAVIS-MEYER Tongue Blade	212
743935	DAVIS-MEYER Tongue Blade	212
743940	DAVIS-MEYER Tongue Blade	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

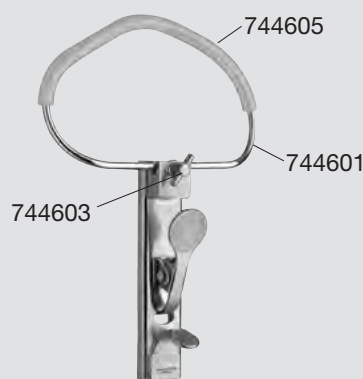
Spare Parts



744601
Frame



744602
Silicone Tube,
diameter 5.5 mm,
length 1 m



744603
Screw, for fixation of
frame



744605
Silicone Protection,
package of 10

Handles

Components / Spare Parts		Catalog page
26196 HA	Axial Bipolar Handle	50
26196 HM	Bipolar Ring Handle	50
26196 HR	Bipolar Spring Handle	50

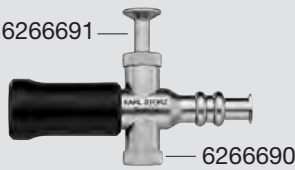


Spare Parts



6875990
Sealing Cap,
diameter 2.6 mm

Components / Spare Parts		Catalog page
30804	Handle with Trumpet Valve	53



Spare Parts



5905610
Spring



6266691
Piston



6266690
Knurled Cap

Components / Spare Parts		Catalog page
33136 P	CLICK'line Handle	45



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



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



Spare Parts



5917900
O-Ring, small

Components / Spare Parts		Catalog page
523900	COTTLE Bone Crusher	287



Spare Parts

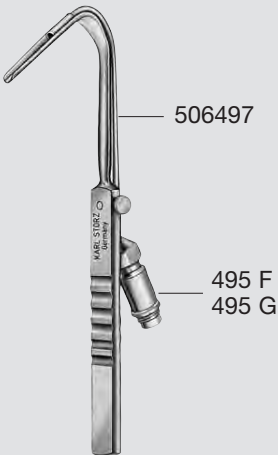


523901
Metal Clamp

Miscellaneous

Nasal Retractor, Suction Punches for Biopsy and Grasping

Components / Spare Parts		Catalog page
506496	AUFRICHT Nasal Retractor	277



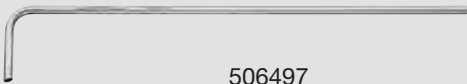
Spare Parts



495 F
Receptacle,
diameter 9 mm, for Wolf
fiber optic light cable

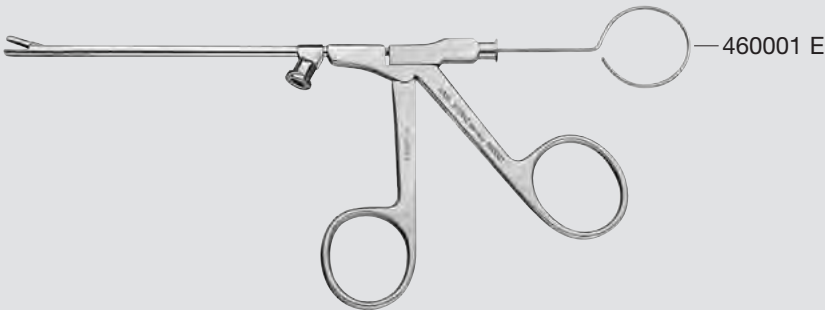


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

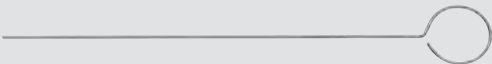


506497
Fiber Optic Light Carrier

Components / Spare Parts		Catalog page
460001	STAMMBERGER Suction Punch	76
460501	STAMMBERGER Suction Punch	76



Spare Parts

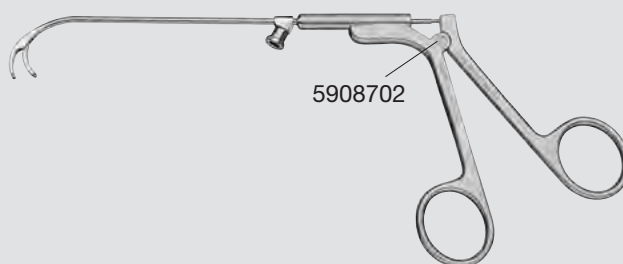


460001 E
Cleaning Stylet,
diameter 1.6 mm,
working length 18 cm

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

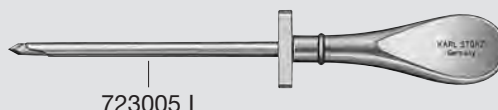


Spare Parts



5908702
Screw Plug

Components / Spare Parts		Catalog page
723005 A	Trocar for Sinoscopy, with beak	66



723005 L

Spare Parts



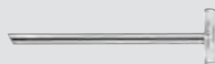
723005 L
Sleeve

Components / Spare Parts		Catalog page
723005 B	Trocar for Sinoscopy, oblique beak	66, 99



723005 M

Spare Parts

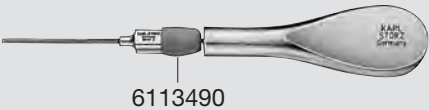


723005 M
Sleeve

Miscellaneous

Trocars and LED Battery Light Sources for Endoscopes

Components / Spare Parts		Catalog page
58717 X	Trocar	58

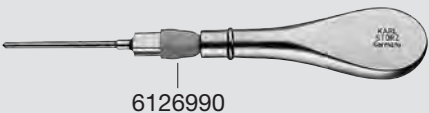


Spare Parts



6113490
Sealing Cap,
1.4 mm (40/1.2)

Components / Spare Parts		Catalog page
58702 X	Trocar	58



Spare Parts



6126990
Sealing Cap,
(40/1.5)

Components / Spare Parts		Catalog page
11301 D4	Battery Light Source LED for Endoscopes	91



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

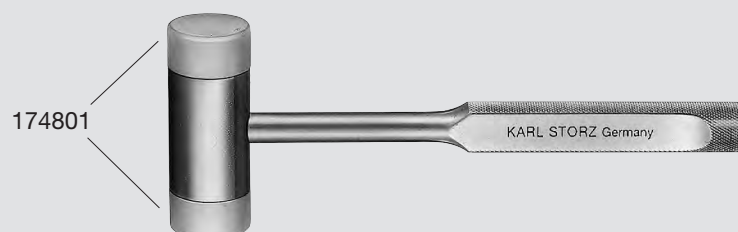
Components / Spare Parts

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

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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



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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



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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

87, 233

Components / Spare Parts

Catalog page

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



58974 E

Spare Parts

58974 E
Spare Blade

Components / Spare Parts

Catalog page

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



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®**
- 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**

U 10



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	U 17
20300044	Silicone Tubing Set , for suction	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	U 16
26310035	Bottle Cap	
26310050	Irrigation Liquid Bottle	



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



2911590
Plunger Ball, green,
to overflow case,
2 pcs required



031124-10*
Filter, to block fluid during
suction, for single use,
unsterile, package of 10

Suction and Irrigation Systems

CLEARVISION® II

Components / Spare Parts		Catalog page
40334101	CLEARVISION® II , lens irrigation system for endoscopes	U 12
40334120	CLEARVISION® II , power supply 100 – 240 VAC, 50/60 Hz	 40334120
400 A	Mains Cord	
20014230	One-Pedal Footswitch	
40334140	Silicone Tubing Set , sterilizable	
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	
	2723091 Connector , large tube diameter	
	2727291 Connector , small tube diameter	
	2724190 LUER-Lock Tube Connector , male, tube diameter 2 mm	
	40334180 Pump Tube , for CLEARVISION® II, sterilizable, package of 25	

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

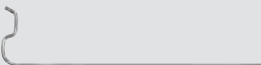


20711820-1

Spare Parts



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10

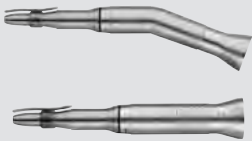


20711680
Irrigation Rod



2107890
Fuse Holder, for power
supply socket

Components / Spare Parts		Catalog page
252475	INTRA Drill Handpiece	U 25
252495	INTRA Drill Handpiece	U 25



Spare Parts

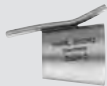


252410
Irrigation Tube

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
- 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
- 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



20532220
20532220-010
20532220C
20532220C010

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

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**

