OLYMPUS

Your Vision, Our Future

ENT



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The work of Olympus is characterized by a simple philosophy: By combining excellent quality with constant product improvement, we put the best-possible instruments into the physician's hand.

With its development of increasingly superior medical instruments, Olympus has contributed significantly towards the success of minimal-invasive surgery. Surgical endoscopes developed by Olympus today already conform to tomorrow's standards. Modern sterilization methods place high demands on both materials and their processing. The durability and reliability of the medical instruments are exposed to great strain during the process. Olympus manufactures surgical endoscopes that, even after long terms of use and many autoclave cycles, operate just as precisely and dependably as on their first day of use.

Over the years, surgery has been marked by continuous progress. Olympus Surgical Technologies Europe has optimized surgical techniques and technical equipment to make such interventions as safe and gentle for the patient as possible. Laparo-Endoscopic Single-Site surgery – abbreviated LESS surgery – represents the advance in the development of surgical techniques and minimally invasive surgery. The entire operative intervention can be performed through one small incision.

The fields of urology, surgery, gynecology, arthroscopy and ENT are nowadays inconceivable without high-quality endoscopes. In a dialogue with experienced doctors from these application fields Olympus develops instruments for progressively less invasive methods of diagnosis and therapy.

Medical Technology by Olympus









The development of surgical endoscopy ideally combines smallest-possible dimensions with best-quality image. It is here that Olympus sets the pace. Olympus Tokyo is one of the leading manufacturers of high-quality optical systems, while Olympus Surgical Technologies Europe, headquartered in Hamburg, is the development and production centre for endoscopy, bipolar high-frequency surgery, systems integration in the operating theatre (ENDOALPHA) and instrument reprocessing for the global market. Further core fields are service as well as distribution and training.

One reason for the success enjoyed by Olympus is the close cooperation between German and Japanese research and development engineers. The most modern optical technology from Japan is combined with German know-how in the field of high-precision mechanics. Today, a total of 1,100 people are employed at locations in Hamburg, Berlin and Tuttlingen in Germany, Přerov in the Czech Republic and Cardiff in Wales, United Kingdom.

Olympus Surgical Berlin is a pioneer in bipolar high-frequency technology. Olympus Surgical Cardiff supplies its optimum “See and Treat” solutions for the fields of endoscopy and open surgery. Olympus Surgical Tuttlingen has a large selection of products marketed under the well-known brands of Explorent, Stuemer and Richards to cover the entire range of ENT applications. With its technology centre for the production, engineering and servicing of medical energy products, Olympus Surgical Přerov adds one of the most modern production sites in Europe to the group.

Quality Wins Respect

Design Award Winner
1996, 1997, 1999, 2000, 2001, 2002, 2003, 2005, 2009, 2010

hamburger**designpreis**°
Hamburg und Design
1999, 2006

Good Design Award
2005, 2007, 2009

Internationaler Designpreis
2004

reddot design award
1999, 2000, 2001,2002, 2003, 2004, 2005, 2006, 2014

Manufacturing Excellence Award
2010

bundespreis produktdesign
1996

At Olympus, product quality begins with the accuracy of the individual components. This requires high-precision manufacturing, followed by rigorous tests and checks. Independent institutions confirmed the high quality of the manufacturing process at an early stage.

In 1993 Olympus Surgical received certification by the technical supervisory authority TÜV Rheinland. Proof of fulfillment of European Directive 93/42 EEC for medical products and of German Medical Devices Act was acquired in September 1995: As a sign of their conformity with all of the legal European requirements, Olympus surgical products bear – since then – the CE labeling. Olympus Surgical is in compliance with the Canadian Medical Devices Assessment System (CMDCAS), the MHLW Ministerial Ordinance and the TCP (Technical Cooperation Programs, Taiwan). The Olympus Surgical group also conforms to the Good Manufacturing Practice (GMP) guidelines of the U.S. Food and Drug Administration (FDA).

Olympus instruments are regularly honoured for their ergonomics with the most important design prizes, among them the Red Dot Design Award, IF Design Award and the Good Design Award.

Olympus Surgical has implemented best-practice solutions. The company was honoured for the successful restructuring of its supply chain and the introduction of process organization with the Manufacturing Excellence Award (MX Award) in 2010.

Olympus Surgical Hamburg is a trustable trade partner. In January 2011, we have been successfully audited and are holding the title “Authorized Economic Operator” (AEO). As a result of increasing risks of terrorist activities new security measures had to be implemented.

www.olympus-global.com



- Leading Business Centers
- Worldwide subsidiaries and distributors

Olympus is represented by large sales organizations in America, Japan, Asia, Australia and Europe. And thanks to a compact network of its own subsidiaries and distributors, you can benefit from Olympus service and support throughout the world – as well as in your own local area. Addresses can be found on our global website: www.olympus-global.com

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Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH, Kuehnstr. 61, 22045 Hamburg, Germany, Phone: +49 40 669 66-0

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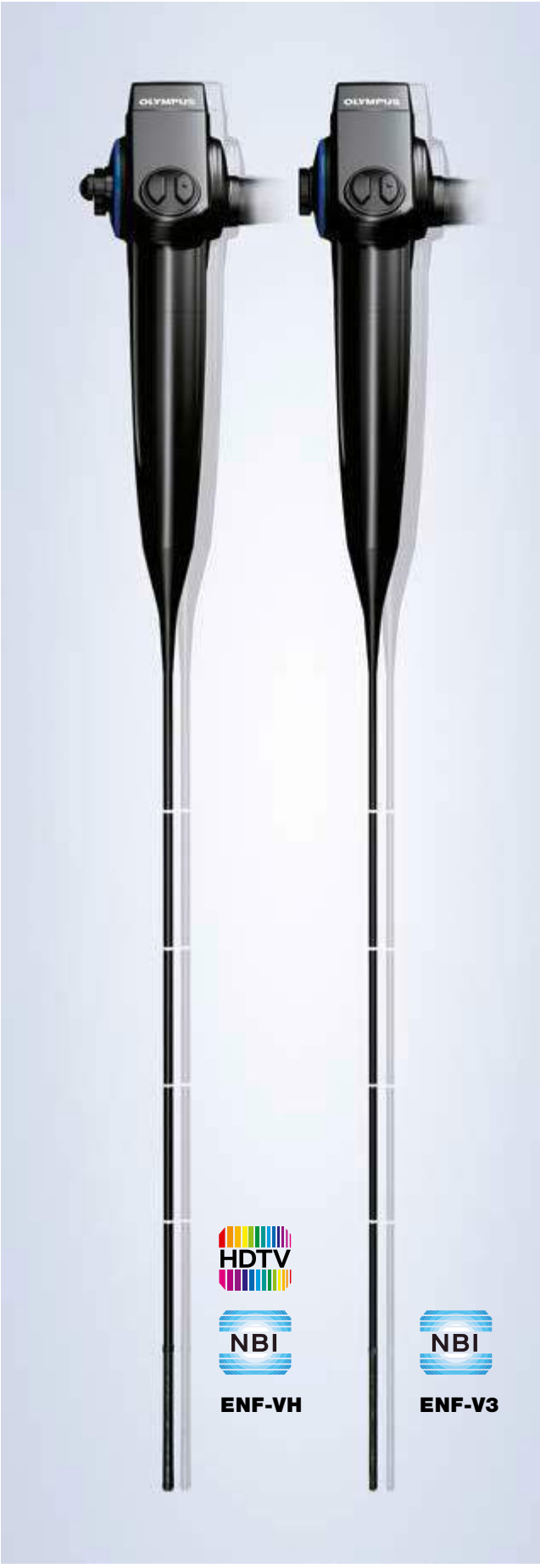
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ENF-VH
ENF-V3

Rhino-Laryngo Videoscope





Two Endoscopes Cover Most Examination Needs

- ENF-VH: for more detailed images achieved via HD

- ENF-V3: crisp, high-resolution images with a distal end diameter of only 2.6 mm
  Astounding image quality:
  Thanks to advances in CCD technology, ENF-VH delivers HD images which show even greater detail for examinations.

- Surprisingly slim diameter:
  The distal end of the ENF-V3 scope is only 2.6 mm in diameter. Also, the difference between the diameters of the distal end and the insertion tube is minimal, which makes insertion into tight nasal passages much easier. Moreover, the improved CCD chip means that even this slim scope delivers exceptional image quality.

- Exceptional luminosity:
  Although it has a small diameter, the scope still illuminates a broad area, providing a detailed image of any lesions within the field of view. This exceptional luminosity is especially useful when observing with NBI.

- Wide field of view:
  The ENF-VH has a viewing angle of 110°. Furthermore, with HD resolution and exceptional illumination, every corner of the field can be thoroughly inspected.

- Pre-freeze function:
  The scope continuously captures still images even before you push the pre-freeze button. When you press the button, the system automatically selects the sharpest image among several.

- NBI (Narrow Band Imaging):
  During endoscopic observation, NBI enhances visualization of the capillary network and mucosal morphology.

VISERA ELITE

ENF-VH/ ENF-V3

Rhino-Laryngo Videoscope (cont.)

Rhino-Laryngo Videoscope ENF-VH

N3828360 ENF-VH Rhino-Laryngo Videoscope

Delivery includes: Endoscope, ETO cap

Technical Data

Optical system
- Field of view ..... 110°
- Direction of view ..... 0° (forward viewing)
- Depth of field ..... 5–50 mm

Insertion section
- Distal end outer diameter ..... 3.9 mm
- Insertion tube outer diameter ..... 3.6 mm
- Insertion section working length ..... 300 mm

Bending section
- Angulation range ..... 130° up, 130° down

Size
- Total length ..... 510 mm

Common specifications
- Classification acc. to 93/42/EEC ..... Class IIa
- EMC ..... group 1, class B
- Protection against electric shock .... Type BF applied part

Environment
- Operation ..... 10–40° C, 30–85% relative humidity, 700–1060 hPa
- Transportation and storage ..... -47–70° C, 10–95% relative humidity, 700–1060 hPa

Rhino-Laryngo Videoscope ENF-V3

N3828260 ENF-V3 Rhino-Laryngo Videoscope

Delivery includes: Endoscope, ETO cap

Technical Data

Optical system
- Field of view ..... 90°
- Direction of view ..... 0° (forward viewing)
- Depth of field ..... 3.5–50 mm

Insertion section
- Distal end outer diameter ..... 2.6 mm
- Insertion tube outer diameter ..... 2.9 mm
- Insertion section working length ..... 300 mm

Bending section
- Angulation range ..... 130° up, 130° down

Size
- Total length ..... 510 mm

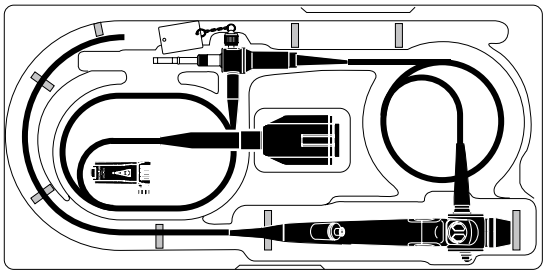
Common specifications
- Classification acc. to 93/42/EEC ..... Class IIa
- EMC ..... group 1, class B
- Protection against electric shock .... type BF applied part

Environment
- Operation ..... 10–40° C, 30–85% relative humidity, 700–1060 hPa
- Transportation and storage ..... -47–70° C, 10–95% relative humidity, 700–1060 hPa

Instrument Tray for Flexible Endoscopes

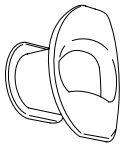
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series

outer dimensions: 531 x 79 x 255 mm

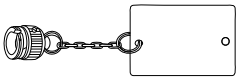


Accessories

028616 MA-651 Mouthpiece

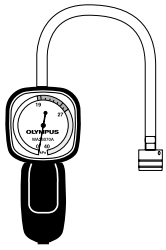


027706 MB-156 ETO cap



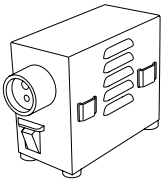
WA23080A Leakage tester,
for flexible Olympus endoscopes

- for manual use
- with indicator
- for all Olympus surgical fiberscopes



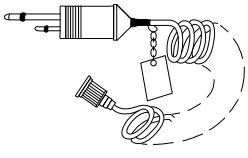
025249 MU-1 Maintenance unit

- to be used with MB-155



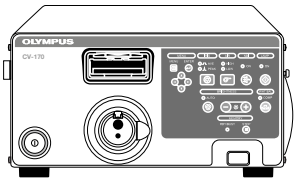
027700 MB-155 Water leakage tester

- for all flexible OES and EVIS endoscopes



Video Systems

CV-170 Video System Center



For details, see page 55.

OTV-S190 VISERA ELITE Video System Center



VISERA ELITE

For details, see page 589.

CV-190 EVIS EXERA III Video Processor



EVIS EXERA III

For details, see page 585.

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ENF-VQ

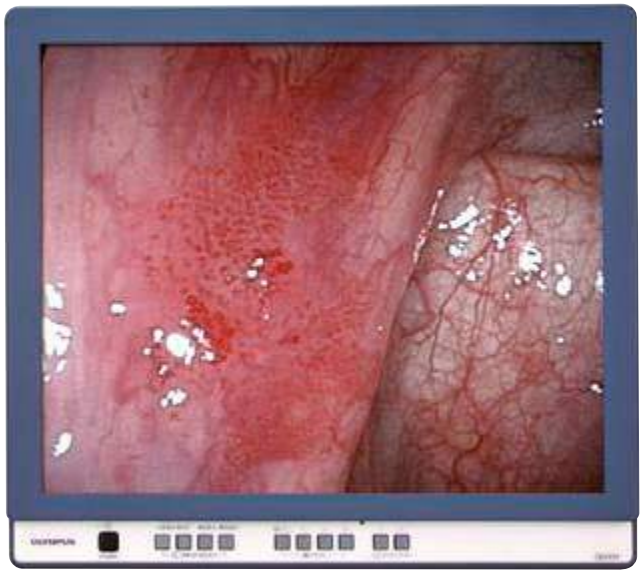
Rhino-Laryngo Videoscope





- “Chip-on-the-tip” for high-resolution images

  The ENF-VQ features a distally mounted CCD that delivers high-resolution and full-screen images enabling you to observe minute otorhinolaryngeal details.



- Full-screen images: clear and bright in every corner

  Full-screen images make observation much easier. With large-size images that are clear and bright even in the corners, the ENF-VQ makes it possible to detect minute details that would not have been previously detected.



- Narrow Band Imaging

  When used with the EVIS EXERA II System, the ENF-VQ is compatible with Narrow Band Imaging (NBI). NBI is a powerful image processing function that exploits particular characteristics resulting from the interaction of light with tissue, and it enhances visualization of mucosal surfaces. When combined with ENF-VQ’s bright full-screen images, the result is remarkably clear views of anatomical structures and the fine capillary patterns of the mucous membranes, which are normally difficult to distinguish.

NBI

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ENF-VQ

Rhino-Laryngo Videoscope (cont.)



NBI

EVIS EXERA II

The ENF-VQ provides high-resolution, full-screen images that are clear and bright throughout the entire field. This outstanding imaging capability is achieved without sacrificing the slim, compact design, enabling you to use this endoscope with a variety of patients.

Pursuing picture quality without compromising performance or versatility, the ENF-VQ brings unprecedented imaging to your ENT practice.

Rhino-Laryngo Videoscope ENF-VQ

N3633860 ENF-VQ Rhino-Laryngo Videoscope

Delivery includes:
Videoscope and ETO cap

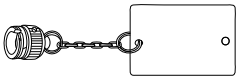
Technical Data

Field of view ..... 90°
Depth of field ..... 5–50 mm
Outer diameter (distal tip) ..... 3.9 mm
Outer diameter (insertion tube) ..... 3.6 mm
Working length ..... 300 mm
Total length ..... 528 mm
Maximum angulation (up) ..... 130°
Maximum angulation (down) ..... 130°

For details, see page 633.

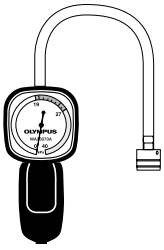
Accessories

027706 MB-156 ETO cap



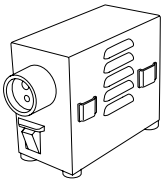
WA23080A Leakage tester,
for flexible Olympus endoscopes

- for manual use
- with indicator
- for all Olympus surgical fiberscopes



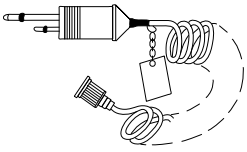
025249 MU-1 Maintenance unit

- to be used with MB-155



027700 MB-155 Water leakage tester

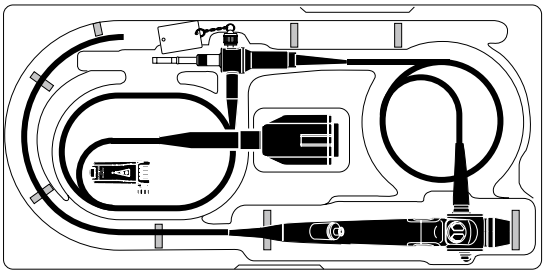
- for all flexible OES and EVIS endoscopes



Instrument Tray for Flexible Endoscopes

WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series

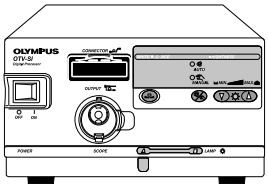
outer dimensions: 531 x 79 x 255 mm



Video Systems

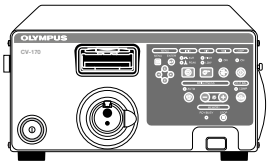
OTV-SI Video system

For details, see page 59.



CV-170 Video System Center

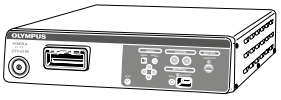
For details, see page 55.



OTV-S190 VISERA ELITE Video System Center

VISERA ELITE

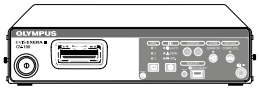
For details, see page 589.



CV-190 EVIS EXERA III Video Processor

EVIS EXERA III

For details, see sheets 585.



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ENF-V2

Rhino-Laryngo Videoscope



The ENF-V2 not only delivers some of the brightest, clearest images available from a videoscope, but also boasts a revolutionary 3.2 mm ultra-thin diameter. A simultaneous multicolor CCD built into the tip provides color-resistant, moiré-free images.

NBI

VISERA

- Focus-free high-resolution imaging
- 3.2 mm ultra-slim diameter
- Easy insertion while enabling clearer observation

Rhino-Laryngo Videoscope ENF-V2

N3633760 ENF-V2 Rhino-Laryngo Videoscope

Delivery includes:
Endoscope, ETO cap and carrying case

Technical Data

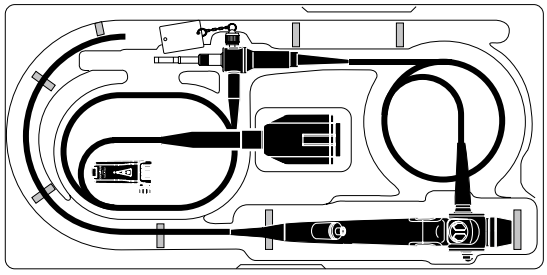
Field of view ..... 90°
Depth of field ..... 5–50 mm
Outer diameter (distal tip) ..... 3.2 mm
Outer diameter (insertion tube) ..... 3.4 mm
Working length ..... 300 mm
Total length ..... 528 mm
Maximum angulation (up) ..... 130°
Maximum angulation (down) ..... 130°

For light-guide adapters, see page 633.

Instrument Tray for Flexible Endoscopes

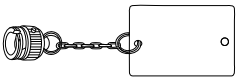
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series

outer dimensions: 531 x 79 x 255 mm



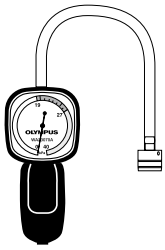
Accessories

027706 MB-156 ETO cap



WA23080A Leakage tester,
for flexible Olympus endoscopes

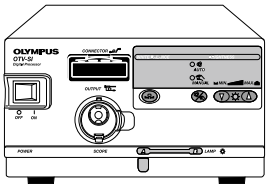
- for manual use
- with indicator
- for all Olympus surgical fiberscopes



Video Systems

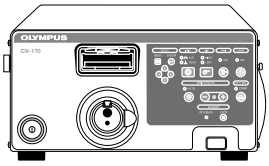
OTV-SI Video system

For details,
see page 59.



CV-170 Video System Center

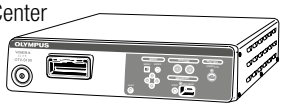
For details,
see page 55.



OTV-S190 VISERA ELITE Video System Center

VISERA ELITE

For details, see page 589.



CV-190 EVIS EXERA III Video Processor

EVIS EXERA III

For details, see page 585.



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ENF-VT2

Rhino-Laryngo Videoscope





The ENF-VT2 features outstanding observation capability and a reliable treatment performance. The high image quality combined with a close focus feature deliver the brightest and clearest images for greater accuracy.

- Superior chip-on-the-tip technology
- 2.0 mm viewing distance
- Large working channel with 2 mm in diameter
- NBI compatible
- Compatible with laser and electrosurgery treatments

NBI

EVIS EXERA II

Rhino-Laryngo Videoscope ENF-VT2

N5408430 ENF-VT2 Rhino-Laryngo Videoscope

Delivery includes:
Endoscope, biopsy valve MAJ-2101 (20 pcs.), biopsy valve MD-4953 (10 pcs.), suction valve MAJ-2072 (10 pcs.), suction valve MAJ-2092 (20 pcs.), suction cleaning adapter MAJ-222, cleaning brushes MH-507, BW-15B, and ETO cap

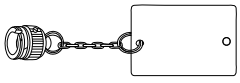
Technical Data

Field of view	90°
Direction of view	0°
Depth of field	2–40 mm
Outer diameter (distal tip)	4.8 mm
Outer diameter	4.9 mm
Working length	365 mm
Total length	635 mm
Maximum angulation (up)	130°
Maximum angulation (down)	130°
Instrument channel	Ø 2.0 mm

For light-guide adapters, see page 633.

Accessories

027706 MB-156 ETO cap



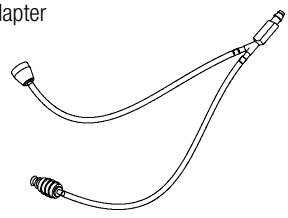
026441 MH-507 Cleaning brush,
for channel opening



026799 BW-15B Cleaning brush,
for instrument channel

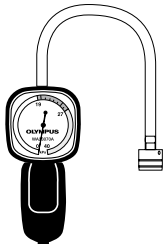


028962 MAJ-222 Suction cleaning adapter



WA23070A Leakage tester,
for flexible Olympus endoscopes

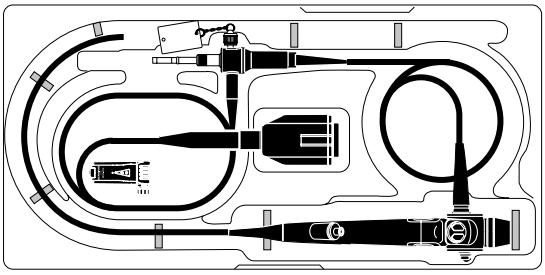
- for manual use
- with indicator
- for all Olympus surgical fiberscopes



Instrument Tray for Flexible Endoscopes

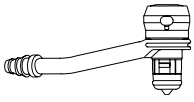
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series

outer dimensions: 531 x 79 x 255 mm



Attachments

Suction valve,
028987 MAJ-209, disposable, 20 pcs.
028958 MAJ-207, semi-disposable, 10 pcs.



Biopsy valve,
028988 MAJ-210, disposable, 20 pcs.
028899 MD-495, semi-disposable, 10 pcs.

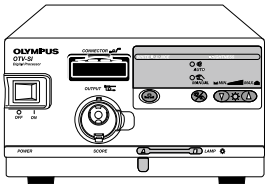


For Endo-Therapy instruments, see page 27.

Video Systems

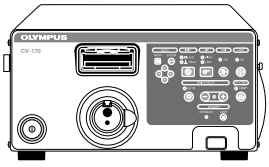
OTV-SI Video system

For details,
see page 59.



CV-170 Video System Center

For details,
see page 55.



OTV-S190 VISERA ELITE video system

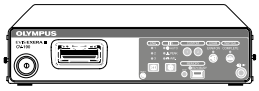
For details, see page 589.

VISERA ELITE

CV-190 EVIS EXERA III Video Processor

For details, see page 585.

EVIS EXERA III



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ENF-GP

Rhino-Laryngo Fiberscope



The ENF-GP is a complete, all-in-one portable solution for rhino-laryngoscopy. The diagnostic rhino-laryngo fiberscope can be used either with a standard light-guide cable or with an optional miniature light source. The EndoLED miniature light source provides extremely bright and whitish light to ensure clear visualization of the vocal cords at any location inside or outside the medical facility.

- Standard connector for most common light-guide cables
- Superior image size and resolution
- Advanced light distribution system
- Extremely bright EndoLED LED miniature light source for greater flexibility (accessory)

Rhino-Laryngo Fiberscope ENF-GP

5789030 ENF-GP Rhino-Laryngo Fiberscope

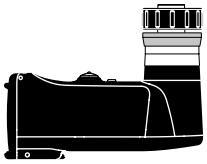
Delivery includes:
Endoscope, ETO cap, light-guide adapter MAJ-900, and carrying case

Technical Data

Field of view	85°
Direction of view	0°
Depth of field	5–50 mm
Outer diameter (distal tip)	3.4 mm
Outer diameter	3.6 mm
Working length	300 mm
Total length	530 mm
Maximum angulation (up)	130°
Maximum angulation (down)	130°

Light Source EndoLED

WA91502A Light source “EndoLED”, for flexible endoscopes

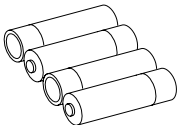


- for rechargeable batteries (requires 2 batteries),
- with battery status indicator (lasts up to 3 hrs.)

Technical Data

Dimensions	70 (W) x 90 (H) x 35 (D) mm
Weight (without batteries)	119 g

Battery,
AA type, rechargeable,
4 pcs.,



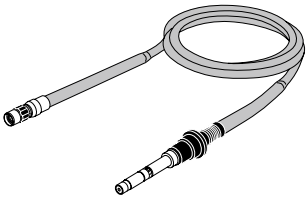
WA91505A Ansmann MaxE 2500
N1453892 CAMEDIA B-01E

Light-Guide Adapter

A70982A Light-guide adapter “MAJ-900”, OES light-guide cable to ENF-GP



WA03300A Light-guide cable, 2.8 mm, 3 m, CF type

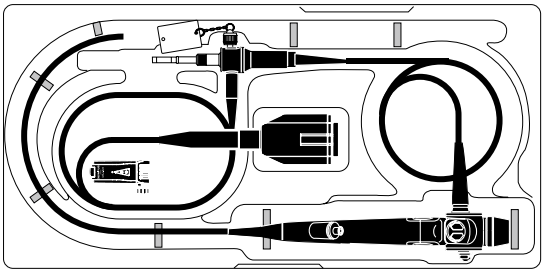


For light-guide adapters, see page 633.

Instrument Tray for Flexible Endoscopes

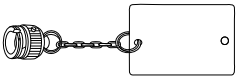
WA05991A Instrument tray, for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series

outer dimensions: 531 x 79 x 255 mm

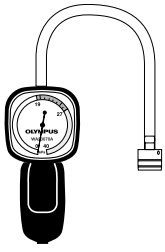


Accessories

027706 MB-156 ETO cap



WA23070A Leakage tester, for flexible Olympus endoscopes



- for manual use
- with indicator
- for all Olympus surgical fiberscopes

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ENF-P4

Rhino-Laryngo Fiberscope



The diagnostic ENF-P4 rhino-laryngo fiberscope represents the gold standard for safe rhino-laryngo diagnosis. Thanks to the latest fiber optic technology, the ENF-P4 displays bright images and high resolution with a slim outer diameter of 3.4 mm. The working length (300 mm) facilitates diagnosis behind the vocal cords; alternatively, the distance to the patient might be increased for hygienic reasons (if required).

- Highest optical quality
- Range of tip bending 130° up and down
- High resolution

Rhino-Laryngo Fiberscope ENF-P4

5363530 ENF-P4 Rhino-Laryngo Fiberscope

Delivery includes:
Endoscope, ETO cap and carrying case

Technical Data

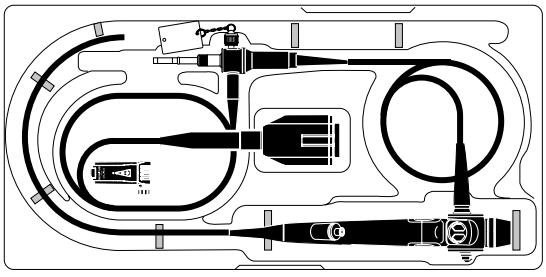
Field of view ..... 85°
Direction of view ..... 0°
Depth of field ..... 5–50 mm
Outer diameter (distal tip) ..... 3.4 mm
Outer diameter ..... 3.6 mm
Working length ..... 300 mm
Total length ..... 530 mm
Maximum angulation (up) ..... 130°
Maximum angulation (down) ..... 130°

For light-guide adapters, see page 633.

Instrument Tray for Flexible Endoscopes

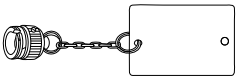
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series

outer dimensions: 531 x 79 x 255 mm



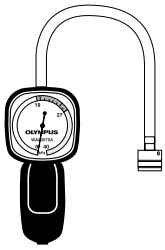
Accessories

027706 MB-156 ETO cap



WA23080A Leakage tester,
for flexible Olympus endoscopes

- for manual use
- with indicator
- for all Olympus surgical fiberscopes



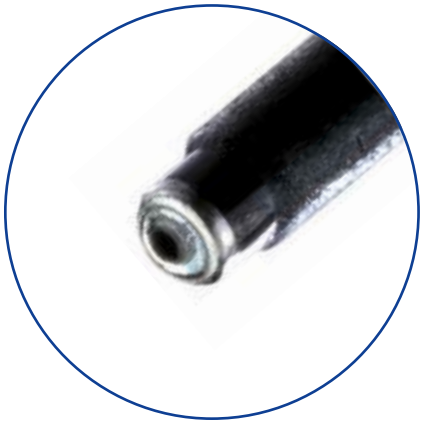
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ENF-XP

Rhino-Laryngo Fiberscope





Even when faced with difficult anatomy, the ultra-slim 2.2 mm insertion section of this flexible rhino-laryngoscope facilitates minimally invasive access and is the right choice for pediatric application, featuring extraordinary image quality and brightness.

- 1.8 mm outer diameter of the distal tip
- Superior optical quality
- Range of tip bending 130° up and down
- Easy access to narrow lumen and paranasal sinuses

Rhino-Laryngo Fiberscope ENF-XP

5363430 ENF-XP Rhino-Laryngo Fiberscope

Delivery includes:
Endoscope, ETO cap, protection tube,
and carrying case

Technical Data

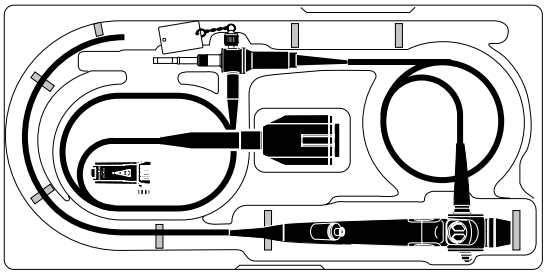
Field of view ..... 75°
Direction of view ..... 0°
Depth of field ..... 2.5–50 mm
Outer diameter (distal tip) ..... 1.8 mm
Outer diameter ..... 2.2 mm
Working length ..... 300 mm
Total length ..... 530 mm
Maximum angulation (up) ..... 130°
Maximum angulation (down) ..... 130°

For light-guide adapters, see page 633.

Instrument Tray for Flexible Endoscopes

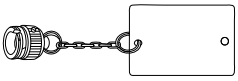
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series

outer dimensions: 531 x 79 x 255 mm



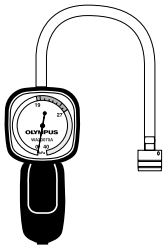
Accessories

027706 MB-156 ETO cap



WA23080A Leakage tester,
for flexible Olympus endoscopes

- for manual use
- with indicator
- for all Olympus surgical fiberscopes



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ENF-T3

Rhino-Laryngo Fiberscope





With its 2.2 mm working channel and an outer diameter of 4.8 mm, this flexible rhino-laryngoscope is ideally suited for therapeutical interventions like biopsy, aspiration and removal of foreign bodies. Thanks to the slim outer diameter, applications can be performed gently under local anesthesia. The working length (365 mm) allows for biopsies, even in areas that are difficult to access.

- Range of tip bending 130° up and down
- Excellent optical quality
- Ideal therapeutic capability

Rhino-Laryngo Fiberscope ENF-T3

N3823530 ENF-T3 Rhino-Laryngo Fiberscope

Delivery includes:
Endoscope, biopsy valve MAJ-210, valve holder MD-51, syringe valve MB-884, cleaning brushes BW-15B, MH-507, ETO cap, and carrying case

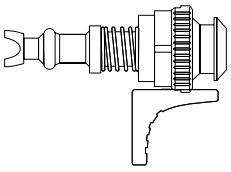
Technical Data

Field of view	85°
Direction of view	0°
Depth of field	5–50 mm
Outer diameter (distal tip)	4.8 mm
Outer diameter	5.0 mm
Working channel diameter	2.2 mm
Working length	365 mm
Total length	585 mm
Maximum angulation (up)	130°
Maximum angulation (down)	130°

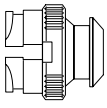
For light-guide adapters, see page 633.

Attachments

028900 MD-493 Aspiration valve



028847 MD-51 Plastic collar



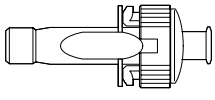
- for biopsy valve MAJ-210
- spare for MD-493

028988 MAJ-210 Disposable biopsy valve



- single use
- 20 pcs.

028848 MB-884 Syringe valve

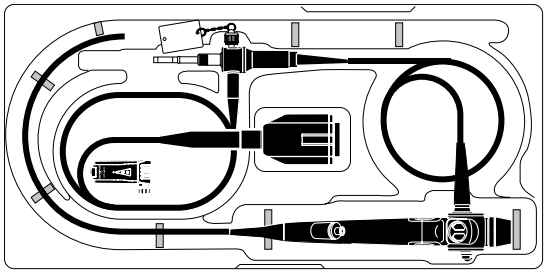


For Endo-Therapy instruments, see page 27.

Instrument Tray for Flexible Endoscopes

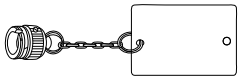
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series

outer dimensions: 531 x 79 x 255 mm



Accessories

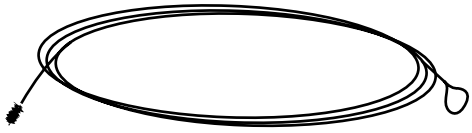
027706 MB-156 ETO cap



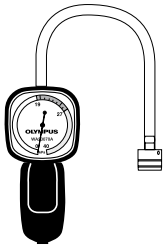
026441 MH-507 Cleaning brush,
for channel opening



026799 BW-15B Cleaning brush,
for instrument channel

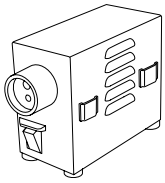


WA23080A Leakage tester,
for flexible Olympus endoscopes



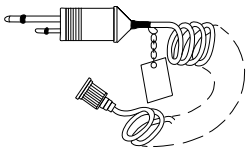
- for manual use
- with indicator
- for all Olympus surgical fiberscopes

025249 MU-1 Maintenance unit



- to be used with MB-155

027700 MB-155 Water leakage tester

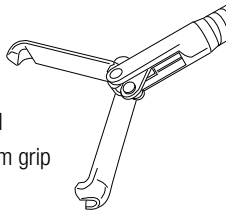


- for all flexible OES and EVIS endoscopes

Reusable Grasping Forceps

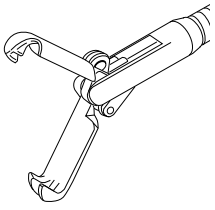
For ENF-VT2

A02902A Grasping forceps “FG-53SX-1”,
1.85 x 700 mm



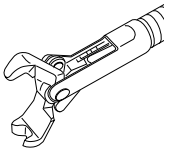
- For stent and foreign body removal
- Wide jaws with rat teeth to give firm grip

A2819 Grasping forceps “FG-38SX-1”,
1.85 x 700 mm



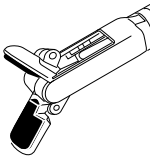
- For stent and foreign body removal
- Jaws with rat teeth to give firm grip

026238 Grasping forceps “FG-14P-1”,
rat tooth,
1.85 x 1900 mm



- For removal of stents and flat objects
- Rat tooth for firm grip

026266 Grasping forceps “FG-20P-1”,
silicone tip,
1.85 x 1900 mm



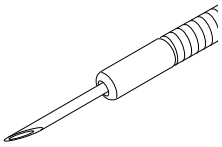
- Silicone tip for slippery, flat objects

Injection Needle

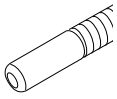
For ENF-VT2

- Reusable outer metal sheath used with single use inner needle
- Ergonomic handle with positive “click” action
- Metal coil sheath enhances mucosal penetration.
- Two-way safety stop for easy handling and to protect endoscope channel

026540 Cannula “MAJ-75/NM-8L-1”,
0.6 x 1650 mm,
6 pcs.,
sterile, single use



026992 Sheath “MAJ-74”,
for needle MAJ-75 (NM-8L-1),
1 pc., reusable

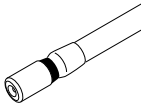


Reusable Spray Catheter

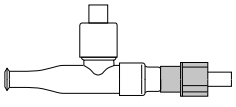
For ENF-VT2

- To spray dye on suspected areas to confirm the size and location of lesions.
- Diffuse dye evenly over a wider area.

026027 Cannula “PW-6C-1”,
1050 mm



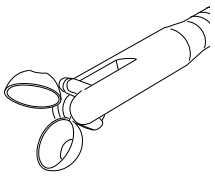
026028 Valve “MAJ-929”,
for PW-6C-1



Single Use Biopsy Forceps

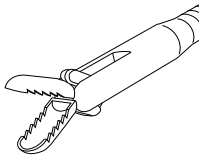
For ENF-VT2 and ENF-T3

026659 Biopsy forceps “FB-52C-1”,
fenestrated,
1.8 x 1050 mm



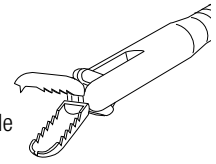
- Ellipsoid cups for deeper biopsies
- Rat tooth to aid anchorage
- Alligator jaws to prevent slippage
- Unique SwingJaw mechanism to aid tangential biopsies
- Fenestrated cups for larger biopsies

A2344 Biopsy forceps “FB-15C-1”,
1.8 x 1050 mm



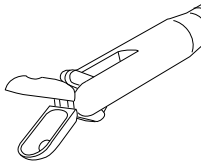
- For biopsy of tough tissue
- Alligator jaws to prevent slippage

Biopsy forceps,
fenestrated,
A2811 “FB-19C-1”, 1.8 x 1050 mm
026671 “FB-19CR-1”, 1.9 x 1050 mm, rotatable



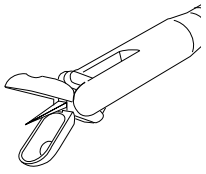
- For routine biopsies
- Fenestrated cups for larger biopsies
- Minimum tissue damage
- Rotatable version for accurate positioning

A9174 Biopsy forceps “FB-21C-1”,
ellipsoid,
fenestrated,
1.8 x 1050 mm



- Ellipsoid cups for deeper biopsies
- Fenestrated cups for larger biopsies

A9173 Biopsy forceps “FB-34C-1”,
fenestrated,
with needle,
1.8 x 1050 mm



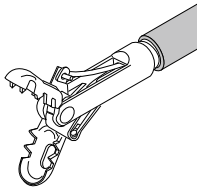
- Needle for improved anchorage
- Fenestrated cups for larger biopsies
- Minimum tissue damage

Single Use Biopsy Forceps

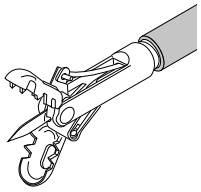
For ENF-VT2

- Ribbed coated sheath to aid insertion
- Fenestrated cups for larger biopsies
- Unique swinging jaw mechanism to aid tangential biopsies
- Color coded sheaths for easy recognition

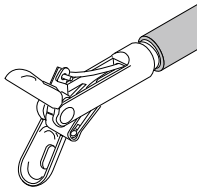
N1081630 Biopsy forceps “FB-211D”,
alligator jaws,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



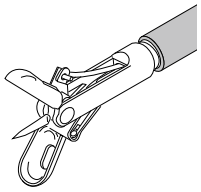
N1081830 Biopsy forceps “FB-221D”,
alligator jaws, with needle,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



N1082030 Biopsy forceps “FB-231D”,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



N1082230 Biopsy forceps “FB-241D”,
with needle,
1.9 x 1150 mm,
sterile, single use,
20 pcs.

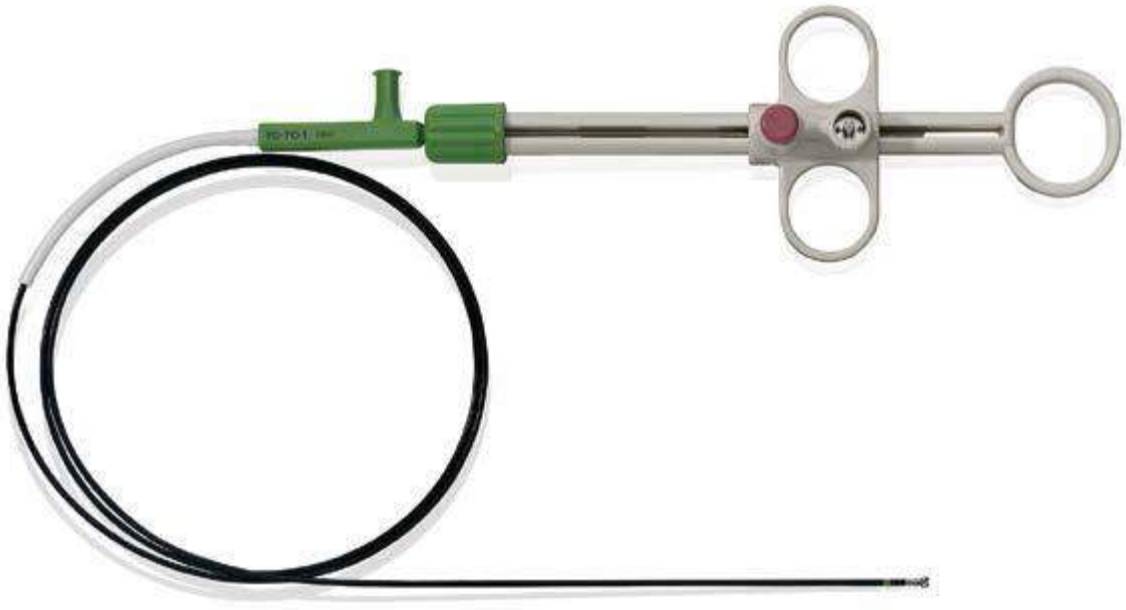


OLYMPUS

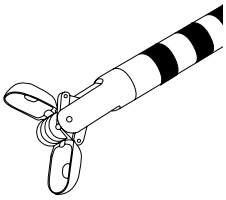
Your Vision, Our Future

Monopolar Instruments

for ENF-VT2



Hot Biopsy Forceps



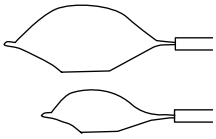
Biopsy forceps “FD-7C-1”,
6 Fr. x 1050 mm,
monopolar,

A02909A A set*
024880 B set

A set includes: Forceps, handle MH-264, HF cable MH-969
B set includes: Forceps

- Oval cups
- Uses HF current to coagulate and cut

Electrosurgical Snares



HF electrode, monopolar,
1.87 mm x 1050 mm,

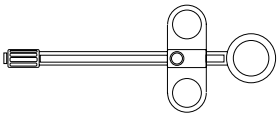
on request “SD-7C-1”, A set*, loop 23 mm Ø
A02911A “SD-7C-1”, B set, loop 23 mm Ø
on request “SD-18C-1”, A set*, loop 13 mm Ø
A02912A “SD-18C-1”, B set, loop 13 mm Ø

A set includes: 2 snare tubes, 2 snare wires,
handle MH-264, HF cable MH-969
B set includes: 2 snare tubes, 2 snare wires

- For debulking of tumor
- Braided wire 0.3 mm
- Green safety marking at distal end of catheter

Handle

A02910A SD Handle “MH-264”,
for monopolar instruments
FD-7C-1, SD-7C-1,
SD-18C-1, KD-31C-1



Coagulation Electrode

N1072530 HF electrode “CD-6C-1”,
1.9 mm x 1050 mm,
button, for coagulation,
monopolar, 1 pc.

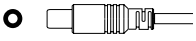


- For haemostasis after biopsy and coagulation of ulcer lesions
- Fixed distal tip
- Green safety marking at distal end of catheter

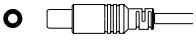
HF Cables for ET Instruments

For SD Handle “MH-264” and HF electrode CD-6C-1.

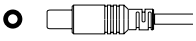
A02915A HF cable “MAJ-860”, monopolar,
for Olympus UES-30/-40,
Erbe International, new generation Valleylab,
Bovie, and Bowa HF units,
2.09 m length



A8406 HF cable “MH-969”, monopolar,
for Olympus UES-10/-20,
and old generation Valleylab HF units,
3 m length



A02916A HF cable “MAJ-861”, monopolar,
for Erbe T series, Martin,
and Berchtold HF units,
2.07 m length



For details, see page 635.

LARYNGOSCOPES

HD Laryngoscope
Rigid Laryngoscopes 33

Telescopes
for Larynx Surgery 37

SINUSCOPES

ULTRA Sinuscopes
VISERA 4K UHD 41

HD Sinuscopes
4 mm 45

ENDORIZON
V-DOV Multi-View Sinuscope 47

TrueView II
2.7 mm Sinuscopes 49

Mini-TrueView
1.9 mm Sinuscopes 51

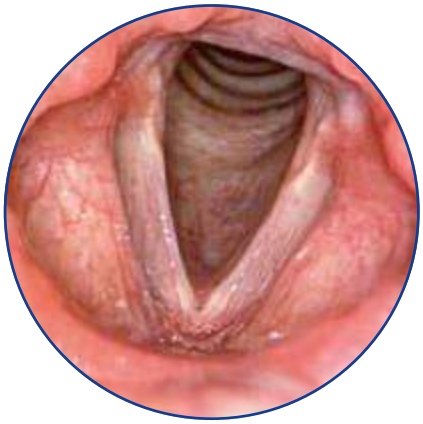
OLYMPUS

Your Vision, Our Future

HD Laryngoscope

Rigid Laryngoscopes

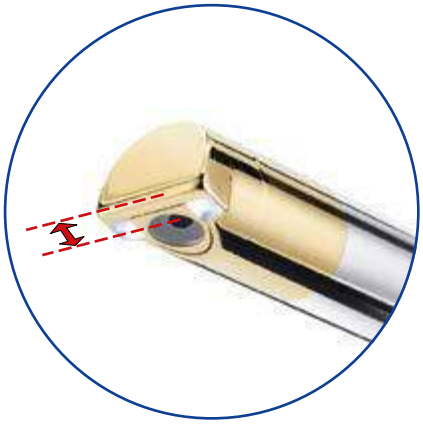




- High definition
  High image quality – great convenience
  The HD laryngoscope offers a unique
  HD optical system.
  Contrast and color technology represent the highest level of technology.
  Thanks to the large depth of field, no refocusing is required during procedures.



- High durability
  Innovative design – great durability
  Reduced costs over lifetime: The newly designed lens system ensures serious durability.
  Shocks are absorbed by the innovative lens protection system; lens breakage is reduced during daily work and reprocessing.



- Designed for patients' convenience
  Less pharyngeal reflex: The distance between the optics and the distal end is minimized.



- Ready for use
  The HD laryngoscope is compatible with all the relevant reprocessing techniques – autoclaving, automated cleaning and disinfection (glutaraldehyde and peracetic acid processes).
  Detachable handle for easy and complete cleaning.

OLYMPUS

Your Vision, Our Future

HD Laryngoscope

Rigid Laryngoscopes (cont.)



reddot design award winner 2009

Design Award Winner 2009

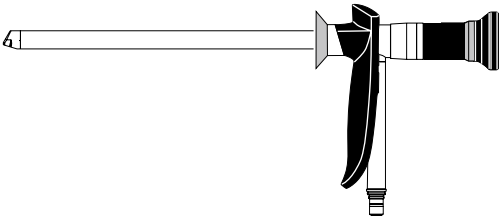
autoclave

- High definition, high durability
- No refocusing required thanks to the high depth of field.
- Designed for patients' convenience.
- Detachable handle for easy and complete cleaning
- Excellent reprocessing compatibility

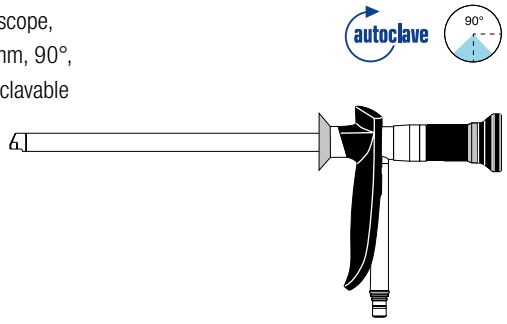
High Definition Laryngoscope

HD laryngoscopes are delivered with a detachable handle.

WA96100A Telescope,
10 mm, 70°,
autoclavable



WA96105A Telescope,
10 mm, 90°,
autoclavable



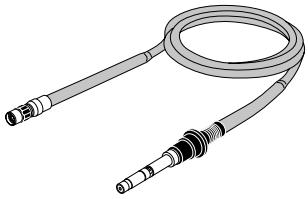
Technical Data

Dimensions
- Outer diameter ..... 10 mm
- Working length ..... 167 mm

Direction of view
- WA96100A ..... 70°
- WA96105A ..... 90°

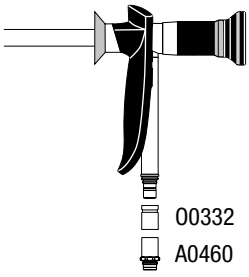
Accessories

WA03310A Light-guide cable,
4.25 mm,
3 m,
CF type



For light-guide adapters, see page 631.

A0460 Light-guide adapter,
00332 for Storz light-guide cables
for Wolf light-guide cables

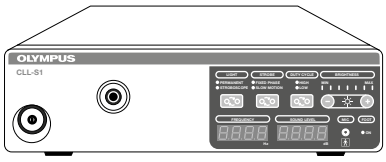


WA91500A Light source “EndoLED”,
for rigid endoscopes



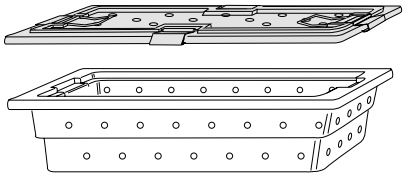
For details, see page 607.

WA97010A Light source “OLYMPUS CLL-S1”,
for stroboscopy



For details, see page 601.

WA05970A Instrument tray,
large,
with lid



Delivery includes silicone mat WA05980A.
Outer dimensions 537 × 139 × 268 mm

For details, see page 671.

OLYMPUS

Your Vision, Our Future

Telescopes

for Larynx Surgery



- Brilliant image quality
- Better definition of margins with NBI and HDTV
- High depth of field – no refocusing required
- New approach for better diagnosis

autoclave

4 mm Telescopes

Telescopes are delivered with instrument tray WA05990A.
For details, see page 669.

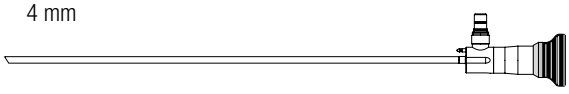
A22000A Telescope, 0°, 4 mm



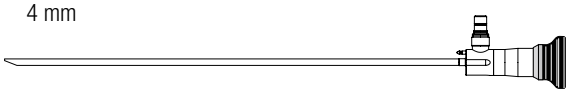
A22001A Telescope, 12°, 4 mm



A22002A Telescope, 30°, 4 mm



A22003A Telescope, 70°, 4 mm



A22004A Telescope, 110°, 4 mm



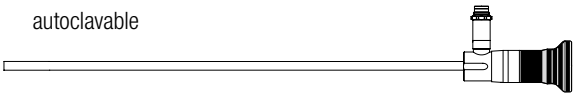
A22005A Telescope, 30°, wide angle, 4 mm



5.4 mm Telescopes

Telescopes are delivered with instrument tray WA05990A.
For details, see page 669.

WA50372B Telescope, 5.4 mm, 0°, quick lock, autoclavable



WA50373B Telescope, 5.4 mm, 30°, quick lock, autoclavable



WA50374B Telescope, 5.4 mm, 45°, quick lock, autoclavable



A5333 Eyepiece cup, quick lock



Telescopes
for Larynx Surgery (cont.)

Technical Data

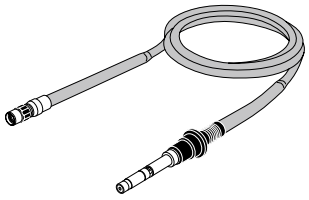
Outer Diameter
- A22000A/-01A/-02A/-03A/-04A/-05A ..... 4 mm
- WA50372B/-73B/-74B ..... 5.4 mm

Working length
- A22000A/-01A ..... 280 mm
- A222002A ..... 282 mm
- A222003A/-04A ..... 284 mm
- A222005A ..... 283 mm
- WA50372B/-73B/-74B ..... 299 mm

Direction of view
- A22000A, WA50372B ..... 0°
- A22001A ..... 12°
- A22002A, WA50373B ..... 30°
- WA50374B ..... 45°
- A22003A ..... 70°
- A22004A ..... 110°
- A22005A ..... 30° wide angle

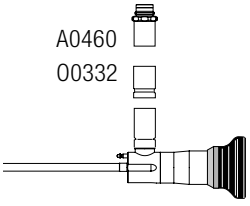
Accessories and Spare Parts

	Light-guide cable, 3 m, CF type,
WA03300A	2.8 mm
WA03310A	4.25 mm



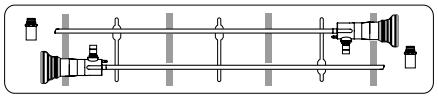
For details, see page 629.

	Light-guide adapter,
A0460	for Storz light-guide cables
O0332	for Wolf light-guide cables



Instrument Tray

WA05990A	Instrument tray, for 2 telescopes

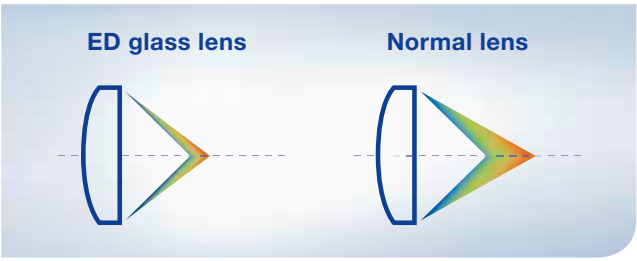


For details, see page 669.

ULTRA Sinuscopes

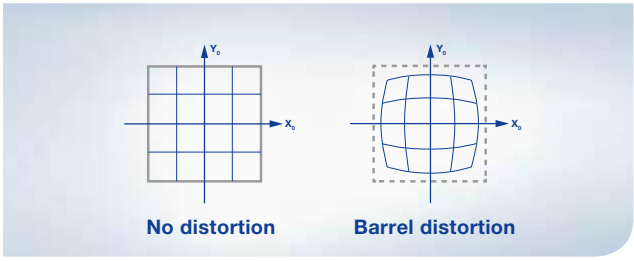
VISERA 4K UHD





ED Glass Lenses – Razor-Sharp Images

- Optimized for high-resolution imaging
- High contrast at high spatial frequencies
- Precise distinction of colors



Distortion-Free Images (5.4 mm telescope)

- Clear images, even at the edges
- No barrel or pincushion distortion (using 5.4 mm telescope)

autoclave

- Full autoclavability
  Reduced waste due to full reusability of the telescopes
- Compatibility
  Mechanical compatibility with current generations of camera heads and light-guide cables from Olympus and other manufacturers that comply with DIN 58105.

ULTRA Telescopes
(cont.)



autoclave

- Optimized for high-resolution imaging
- High contrast at high spatial frequencies
- Precise distinction of colors

4 mm ULTRA Sinuscopes

• Light-guide connector on top of the telescope

WA4KS400 Telescope “ULTRA”, 4 mm, 0°



WA4KS430 Telescope “ULTRA”, 4 mm, 30°



WA4KS445 Telescope “ULTRA”, 4 mm, 45°



WA4KS470 Telescope “ULTRA”, 4 mm, 70°



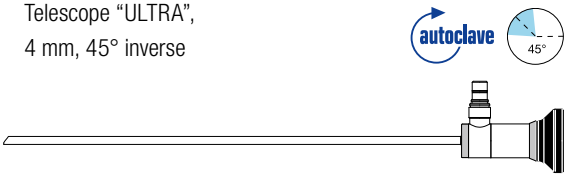
Inverse 4 mm ULTRA Sinuscopes

• Light-guide connector on bottom of the telescope

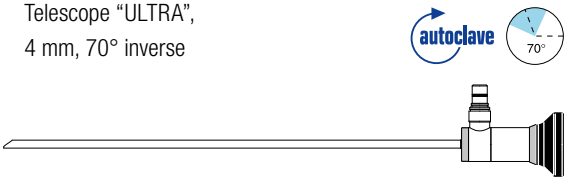
WA4KS431 Telescope “ULTRA”, 4 mm, 30° inverse



WA4KS446 Telescope “ULTRA”, 4 mm, 45° inverse

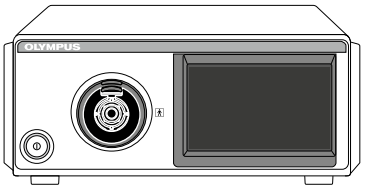


WA4KS471 Telescope “ULTRA”, 4 mm, 70° inverse



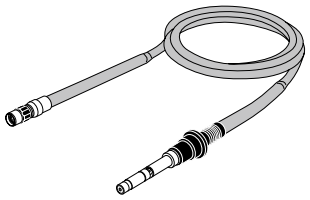
Video Systems

OTV-S400 VISERA 4K UHD camera control unit



Accessories and Spare Parts

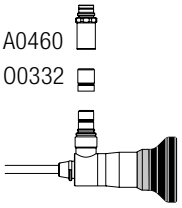
WA03300A Light-guide cable, 2.8 mm, 3 m, CF type



For light-guide adapters, see page 629.

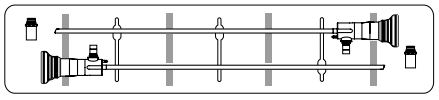
A0460 Light-guide adapter, for Storz light-guide cables

00332 for Wolf light-guide cables



Instrument Tray

WA05990A Instrument tray, for 2 telescopes



For details, see page 669.

Technical Data

Outer Diameter	4 mm
Working length	
WA4KS400	176.7 mm
WA4KS430/-31	176.9 mm
WA4KS445/-46	177.2 mm
WA4KS470/-71	178.2 mm
Direction of view	
WA4KS400	0°
WA4KS430/-31	30°
WA4KS445/-46	45°
WA4KS470/-71	70°
Field of view	93°

OLYMPUS

Your Vision, Our Future

HD Sinuscopes

4 mm



The true color lens system of the 4 mm HD Sinuscopes allows for definition and clarity of mere structures throughout the endoscopic field. When combined with their durable mechanical design, the HD Sinuscopes become something truly special.

- Outstanding optical quality thanks to excellent contrast and homogeneous illumination
- No reprocessing concerns:
  - Autoclavable
  - Glutaraldehyde and peracetic acid compatible
  - Washer/disinfector compatible
- Complete product line: diverse direction of view, connector for light guide on top and on bottom

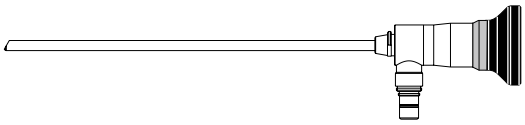
autoclave

4 mm HD Sinuscopes

WA96200A Telescope, 4 mm, 0°,
connector for light guide on bottom,
autoclavable



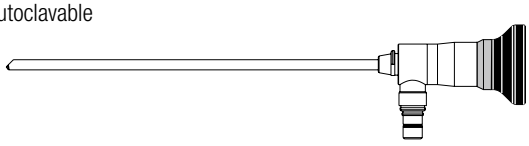
WA96201A Telescope, 4 mm, 30°,
connector for light guide on bottom,
autoclavable



WA96202A Telescope, 4 mm, 30°,
connector for light guide on top,
autoclavable



WA96203A Telescope, 4 mm, 45°,
connector for light guide on bottom,
autoclavable



WA96204A Telescope, 4 mm, 45°,
connector for light guide on top,
autoclavable



WA96205A Telescope, 4 mm, 70°,
connector for light guide on bottom,
autoclavable



WA96206A Telescope, 4 mm, 70°,
connector for light guide on top,
autoclavable



Accessories and Spare Parts

WA96208 Handle,
for sinuscope



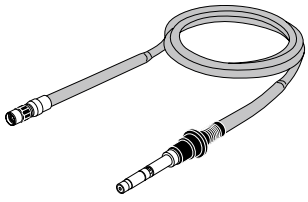
WA91500A Light source “EndoLED”,
for rigid endoscopes

For details, see page 607.

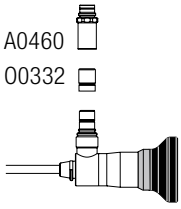


WA03300A Light-guide cable,
2.8 mm,
3 m,
CF type

For details, see page 629.

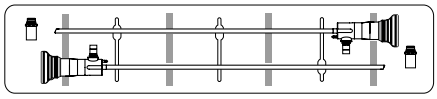


A0460 Light-guide adapter,
for Storz light-guide cables
00332 for Wolf light-guide cables



Instrument Tray

WA05990A Instrument tray,
for 2 telescopes



For details, see page 669.

Technical Data

Outer Diameter ..... 4 mm
Working length
- WA96200A/-03A ..... 147,5 mm
- WA96201A/-02A/-04A ..... 147,9 mm
- WA96205A/-06A ..... 148,4 mm

Direction of view
- WA96200A ..... 0°
- WA96201A/-02A ..... 30°
- WA96203A/-04A ..... 45°
- WA96205A/-06A ..... 70°

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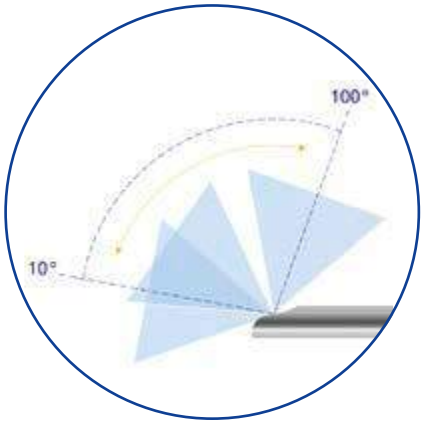
ENDORIZON

V-DOV Multi-View Sinuscope



Broadening the horizon in sinuscopy with the ENDORIZON V-DOV Multi-View sinuscope.

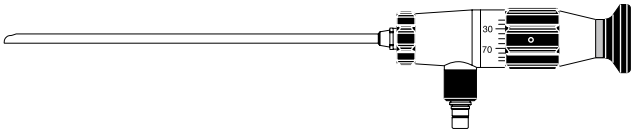
Two thumb wheels allow you to adjust the direction of view and rotate the entire endoscope. Orientation is made quicker and easier by just moving a fingertip. The ENDORIZON sinuscope visualizes the ethmoid, frontal, and sphenoid sinus without changing from one conventional telescope with fixed direction of view to another. Thus, tissue damage decreases and the procedural time is reduced, making the procedure more cost-efficient.



- Continuously variable direction of view from 10° to 100°
- 340° rotatable shaft system
- Ergonomic design
- Fully autoclavable

ENDORIZON V-DOV Sinuscope

WA9T400V Telescope “V-DOV”,
4 mm,
autoclavable



Delivery includes:
protective tube WA9P400A

Technical Data

Dimensions
- Maximum insertion portion width ..... 4.35 mm
- Working length ..... 175.5 mm

Direction of view ..... 10 – 100°

Ambient conditions
- Operation ..... temperature 10 – 40 °C
  relative humiditiy 30 – 85 %
- Storage ..... temperature 10 – 40 °C
  relative humiditiy 30 – 85 %
- Transport..... temperature -29 – 60 °C
  relative humiditiy 30 – 85 %

WA9P400A Spare protective tube “V-DOV”,
4 mm telescope



Accessories and Spare Parts

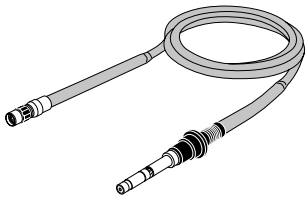
WA91500A Light source “EndoLED”,
for rigid endoscopes

For details, see page 607.

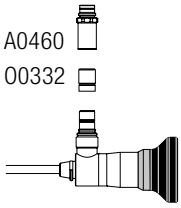


WA03300A Light-guide cable,
2.8 mm,
3 m,
CF type

For details,see page 629.

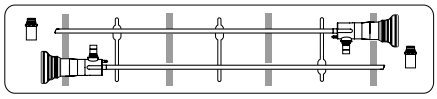


A0460 Light-guide adapter,
for Storz light-guide cables
O0332 for Wolf light-guide cables



Instrument Tray

WA05990A Instrument tray,
for 2 telescopes



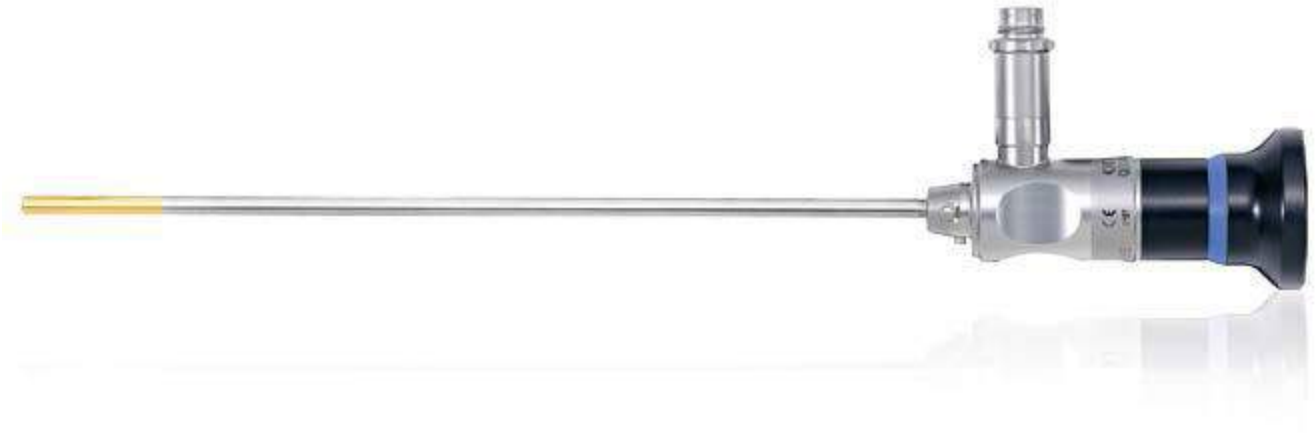
For details, see page 669.

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TrueView II

2.7 mm Sinuscopes



The 2.7 mm TrueView II telescopes are based on an outstanding lens system. It is the combination of superior optical performance and durable mechanical design that makes Olympus telescopes something special.

- Superior optical quality
- Brilliant color reproduction
- Durable mechanical design

autoclave

2.7 mm TrueView II Telescopes

A70960A Telescope “TrueView II”, 2.7 mm, 0°, autoclavable



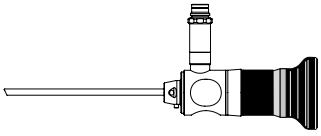
A70961A Telescope “TrueView II”, 2.7 mm, 30°, autoclavable



A70962A Telescope “TrueView II”, 2.7 mm, 70°, autoclavable



A70963A Telescope “TrueView II”, 2.7 mm, 30°, autoclavable



Technical Data

Outer Diameter ..... 2.7 mm
Working length
A70960A/-61A/-62A ..... 160 mm
A70963A ..... 70 mm
Direction of view
A70960A ..... 0°
A70961A/-63A ..... 30°
A70962A ..... 70°

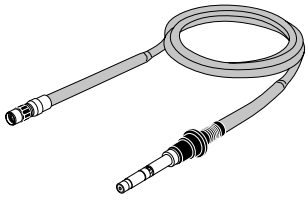
Accessories and Spare Parts

WA91500A Light source “EndoLED”, for rigid endoscopes



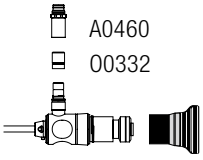
For details, see page 607.

WA03300A Light-guide cable, 2.8 mm, 3 m, CF type



For details, see page 629.

A0460 Light-guide adapter, for Storz light-guide cables
O0332 for Wolf light-guide cables

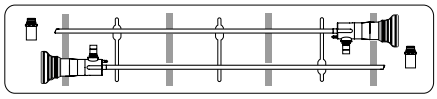


A5333 Eyepiece cup, for telescopes



Instrument Tray

WA05990A Instrument tray, for 2 telescopes



For details, see page 669.

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Mini-TrueView

1.9 mm Sinuscopes



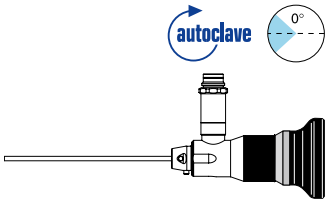
Based on the TrueView II design, a new generation of 1.9 mm telescopes for sinus surgery is available. The new telescope class is fully autoclavable and very durable thanks to Olympus's advanced fiber technology. For the physician, the new telescope class means bright images, brilliant color reproduction, high resolution and ergonomic design.

autoclave

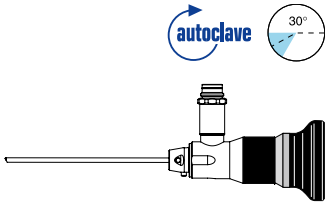
- High durability
- Fiber technology

1.9 mm TrueView Telescopes

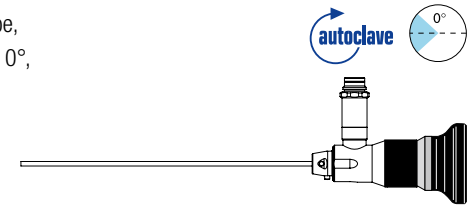
A7504A Telescope, 1.9 mm, 0°, 65 mm, autoclavable



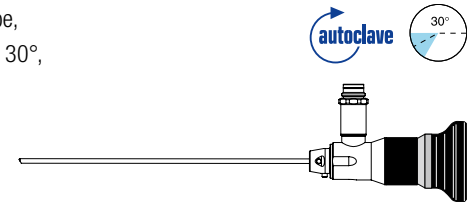
A7505A Telescope, 1.9 mm, 30°, 65 mm, autoclavable



A7506A Telescope, 1.9 mm, 0°, 115 mm



A7507A Telescope, 1.9 mm, 30°, 115 mm



Technical Data

Outer Diameter	1.9 mm
Working length	
A7504A/-05A	65 mm
A7506/-07A	115 mm
Direction of view	
A7504A/-06A	0°
A7505A/-07A	30°

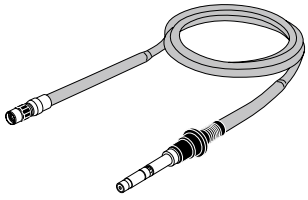
Accessories and Spare Parts

WA91500A Light source “EndoLED”, for rigid endoscopes

For details, see page 607.



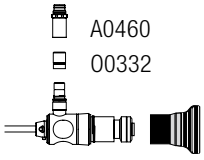
WA03300A Light-guide cable, 2.8 mm, 3 m, CF type



For details, see page 629.

A0460 Light-guide adapter, for Storz light-guide cables

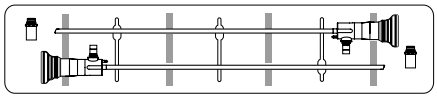
O0332 for Wolf light-guide cables



A5333 Eyepiece cup, for telescopes

Instrument Tray

WA05990A Instrument tray, for 2 telescopes



For details, see page 669.

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Equipment for ENT

ENT VIDEO SYSTEMS

CV-170
ENT Imaging Platform 55

OTV-SI
ENT Office Video Endoscopy System 59

DIEGO

DIEGO ELITE
Multidebrider 63

PK DIEGO
Powered Dissector System 69

DIEGO System
Sinus Application Blades 75

DIEGO System
Burrs, Nasopharyngeal and
Laryngeal Application Blades 77

Viper Otology Drill System 79

Drill Burr Line
for Viper Otology Drill System 81

CELON

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Bipolar Radiofrequency-Induced Thermotherapy 83

ESG-200 85

CELON ELITE ProCut 87

CelonENT
RFITT for ENT Treatment 89

CelonProCut
Accessories 91

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CV-170

ENT Imaging Platform



HDTV

High-resolution HDTV images deliver sharp and clear details, boosting observation capabilities when viewing mucosal structures and other vessel patterns. The system's improved imaging with minimal halation and image noise effectively and efficiently supports diagnostics. This superior performance will take the potential of endoscopy to a new level.



- Clinical pictures of suspicious tissue can be easily recorded and stored on the MAJ 1925 portable memory drive.

NBI (Narrow Band Imaging)

NBI enhances the visibility of capillaries and other structures on the mucosal surface by using special illumination to optically contrast abnormal tissue against the surrounding healthy area. This advanced and unique visualization technology potentially eliminates unnecessary biopsies and improves examination quality. The combination of NBI and HDTV aims to facilitate optimal diagnosis and treatment.

Compact Design with LED Technology

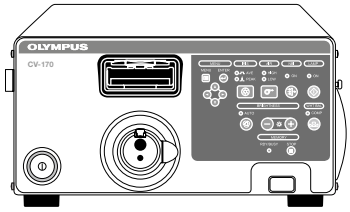
- The CV-170's all-in-one design condenses its performance into a compact and convenient size.
- The newly adopted long-life LED lamp minimizes lamp replacement and thus makes maintenance much easier. It generates virtually no heat, ensuring long hours of operation while reducing energy and noise.

CV-170

ENT Imaging Platform (cont.)

Video System Center

	Video system center “CV-170”, set, with videoscope,
E0497606	with ENF-V3[1]
E0497607	with ENF-VH[1]
E0497610	with ENF-VT2[2]
E0497648	with ENF-VQ[3]
E0497649	with ENF-V2[4]

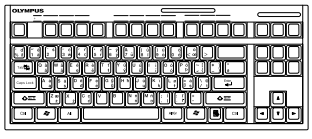


Delivery includes:
video system center, videoscope, keyboard (MAJ-2004), foot holder (MAJ-699), white cap (MH-155), water container (MAJ-901), portable memory (MAJ-1925), SDI cable (MAJ-1951), white cap holder (MAJ-960), power cable

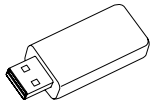
[1] For details, see page 7.
[2] For details, see page 17.
[3] For details, see page 11.
[4] For details, see page 15.

Accessories

N4493050 Keyboard “MAJ-2004”

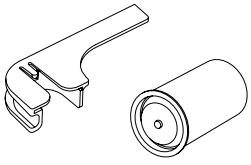


N3647000 Portable memory “MAJ-1925”

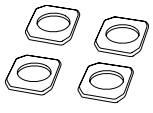


6882800 White cap set “MAJ-941”

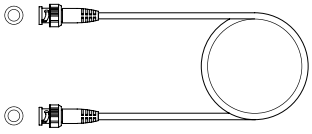
For white balance,
includes white cap MH-155 and white cap holder MAJ-960.



GJ6819 Foot holder “MAJ-699”
4 pcs.



N3647800 SDI cable “MAJ-1951”



Technical Data

Power supply
- Voltage ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 200 VA

Size
- Dimensions, standard ..... width 295 mm
  height 145 mm
  depth 425 mm
- Weight ..... 11 kg

Safety
- Protection against electric shock ..... class I
- Directive 93/42/EEC ..... class IIa

Observation
- Analog HDTV ..... output RGB (1080/50i)
  YPbPr (1080/50i)
- Analog SDTV output ..... VBS composite (576/50i: PAL)
  Y/C (576/50i: PAL)
  RGB (576/50i: PAL)
- Digital signal output ..... SDI (HD-SDI or SD-SDI)
  DVI (WUXGA, 1080p or SXGA)

Illumination
- Examination lamp ..... LED
- Observation mode ..... normal or NBI

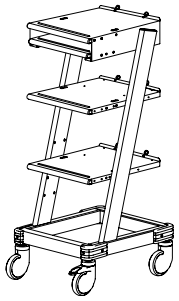
Ambient conditions
- Operation ..... temperature 10 – 40 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C
  relative humidity 10 – 90 %
  atmospheric pressure 700 – 1060 hPa

Camera Heads

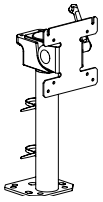
For compatible OTV-S7H series camera heads, see page 593.

Trolley

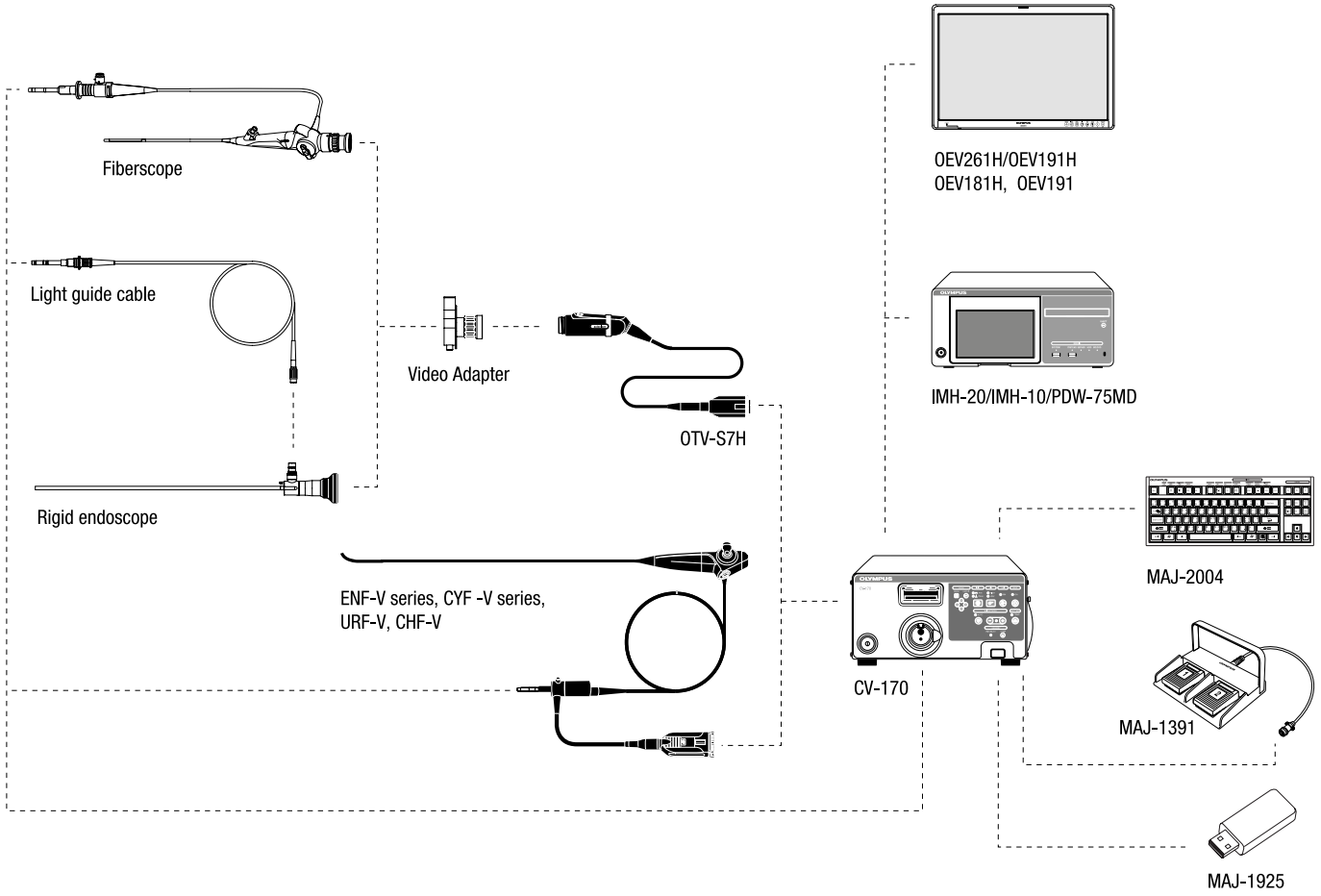
7502007 Trolley “TC-NE”



K10001078 LCD monitor mount kit “MAJ-197”



System Chart



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OTV-SI

ENT Office Video Endoscopy System



With its compact design for efficient use of limited office space, the OTV-SI permits the use of existing fiber-optic endoscopes and telescopes.

- High-quality images
- More effective patient consultations
- Compatible with fiberscopes and telescopes



Rhino-Laryngo Videoscopes ENF-VQ/ENF-V2/ENF-VT2

- Superior imaging that only a videoscope can offer
- Unprecedented image quality
- Contour enhancement



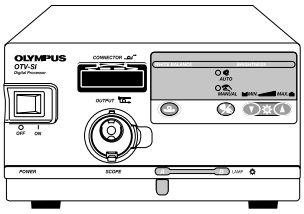
Video System OTV-SI

- Two-in-one: Video system and light source integration
- Space-saving design: The video system and integrated light source make the OTV-SI a standard imaging platform for clinics of all sizes.



- Multi-purpose interface for fiber/rigid endoscopes: Existing fiber/rigid endoscopes can be connected by camera heads.

ENT Office Endoscopy Video System



Video system "OTV-SI",
set, with videoscope,

E0497502 with ENF-VQ (for details, see page 11)
E0497349 with ENF-V2 (for details, see page 15)
E0497453 with ENF-VT2 (for details, see page 17)
E0497323 with LF-V

Technical Data

Power supply
- Voltage ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Input current ..... 1.2 A (220 – 240 V)

Size
- Dimensions ..... 300 (W) x 171 (H) x 434 (D) mm
- Weight ..... 12 kg

Classification
- Protection against electric shock ..... class 1, type BF

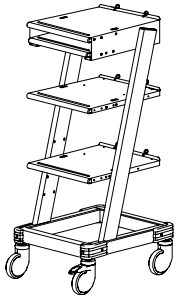
Illumination
- Lamp ..... 150 W Halogen
- Lamp life ..... approx. 40 hrs. on continuous use[1]
- Brightness adjustment ..... light-path diaphragm control

[1] In intermittent use, lamp life may differ slightly.

Trolley

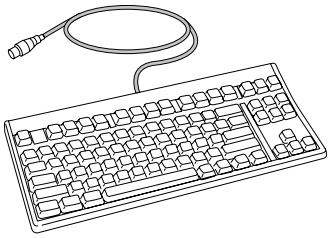
7502007 Trolley "TC-NE"

K10001078 LCD monitor mount kit "MAJ-197" (not shown)



Accessories

N1019500 Keyboard "MAJ-1124"

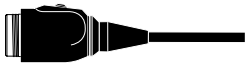


Camera Heads



Camera head, standard, angled,
with two remote control switches,
N1012540 "OTV-S7H-N"
N1012640 "OTV-S7H-1N", with moiré filter

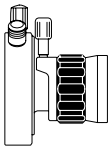
head size (from mount surface) Ø 27 x 37 mm
weight 40 g (excluding cable)
cable Ø 5.2 mm x 4 m



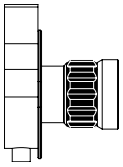
N1012740 Camera head "OTV-S7H-1D",
standard, straight,
with two remote control switches, with moiré filter

head size (from mount surface) Ø 27 x 37 mm
weight 40 g (excluding cable)
cable Ø 5.2 mm x 4 m

Video Adapter

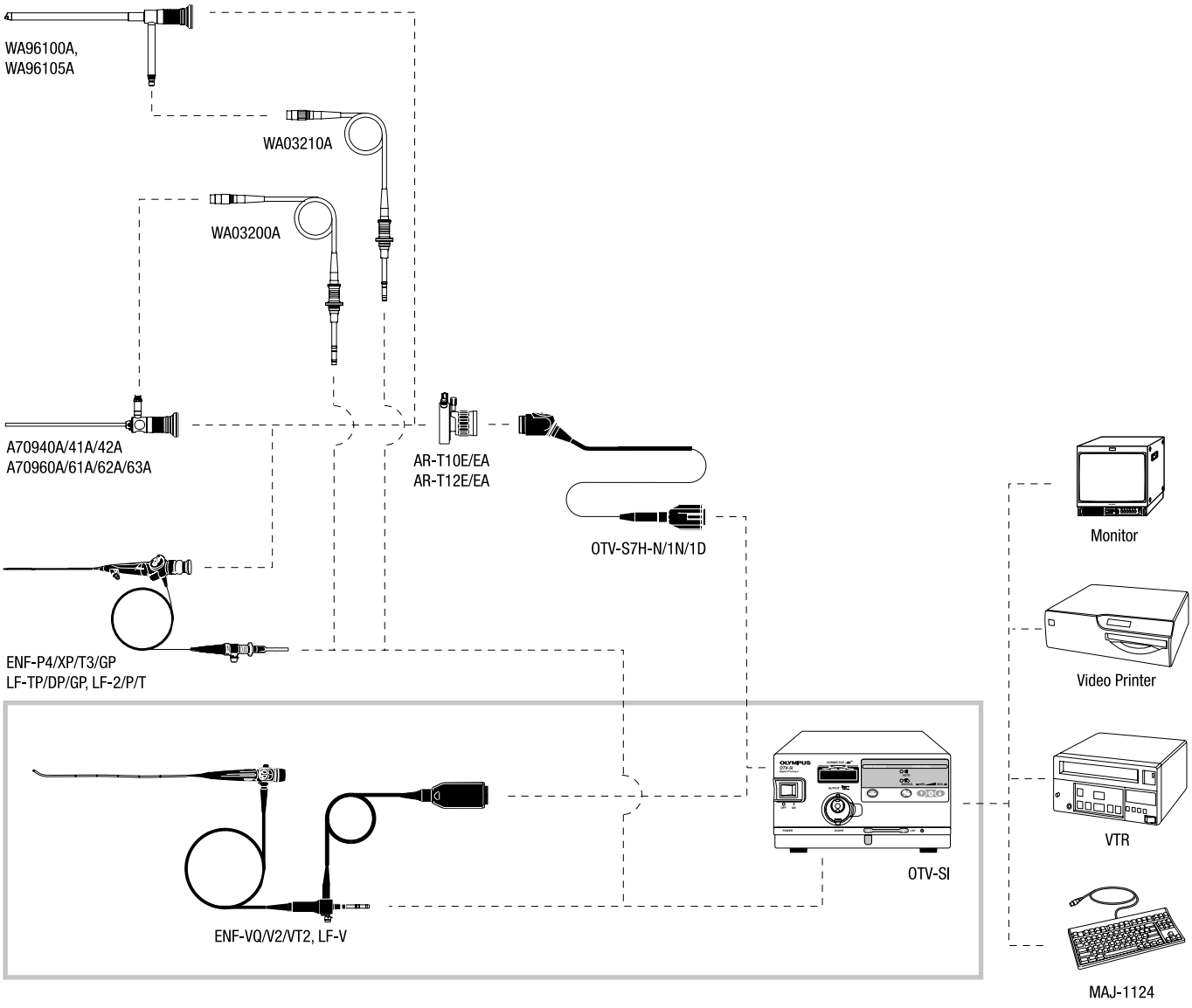


Video adapter,
eyepiece type,
A8960 "AR-T10E", 1.0x
A8963 "AR-T12E", 1.2x



Video adapter,
eyepiece type, autoclavable,
A4210A "AR-T10EA", 1.0x
A4211A "AR-T12EA", 1.2x

System Chart



OLYMPUS

Your Vision, Our Future

DIEGO ELITE

Multidebrider





Standard blades

- Type A blades enable better tissue dissection.
- Distal suction increases visualization with fewer clogs and instrument exchanges.



Bipolar blades

- Improved coagulation performance when compared to PK DIEGO.
- Significantly shorter operating time when compared to standard blades.
- Available for sinus, turbinate, and tonsil and adenoid blades.



Monopolar blades

- Monopolar coagulation at your fingertips is one option to better control bleeding.
- Equivalent monopolar performance to standard operating generators.
- Available for both sinus and tonsil and adenoid blades.

27% faster tissue removal[1]

- Minimal clogging
- Reduction in instrument exchanges
- Better tissue dissection

12% faster when using bipolar[2]

- Significantly shorter operating time
- More cost-effective
- Faster procedure times

[1] Data on file

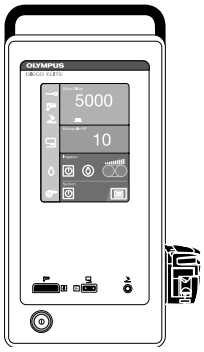
[2] Sindwani, R, Kumar, N. Bipolar microdebrider may reduce intraoperative blood loss and operating time during nasal polyp surgery. *Ear Nose Throat Journal.* 2012 Aug.; 91(8):336–44.

DIEGO ELITE

Multidebrider (cont.)

Power Console

MDCONS100 DIEGO ELITE power console



Delivery includes:
Console, power cable

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Maximum input power ..... 720 VA
- Power fuse ..... 2x 5 A

Size
- Width x depth x height ..... 370 x 465 156 mm
- Weight ..... 12.5 kg

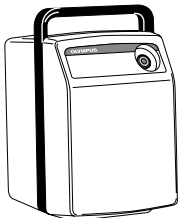
Classification
- Protection against electric shock ..... type BF, class I
- Directive 93/42/EEC ..... class IIa

Output
- High frequency functions ..... monopolar/bipolar
- High frequency ..... 430 kHz ±20%
- Maximum high frequency power ..... 320 W
- All modes ..... 25% duty cycle (e.g. 10 s activated, 30 s deactivated)

Ambient conditions
- Operation ..... temperature 10 – 35 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 60 °C, relative humidity 10 – 85 %, atmospheric pressure 500 – 1060 hPa

Suction Module

MDSM110V DIEGO ELITE suction module, 110 VAC
MDSM220V DIEGO ELITE suction module, 220 VAC



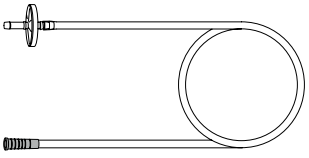
Technical Data

Power supply
- Voltage (MDSM110V) ..... 100 – 120 V ~
- Voltage (MDSM220V) ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Maximum input power ..... 264 VA
- Power fuse ..... 4 A / 2 A

Size
- Width x depth x height ..... 420 x 470 x 356 mm
- Weight ..... 11.5 kg

Classification
- Protection against electric shock ..... type BF, class I
- Directive 93/42/EEC ..... class IIa

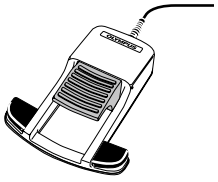
TS102SF Suction module tube set, suction/filter, 5 pcs.



multi-use, replace daily

Foot Switch

MDFS100 DIEGO ELITE foot switch



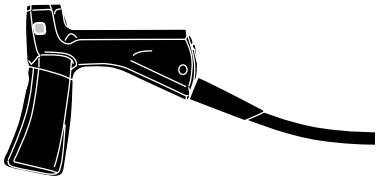
Technical Data

Size
- Width x depth x height ..... 175 x 185 x50 mm
- Weight ..... 1.6 kg
- Length of cable ..... 4 m

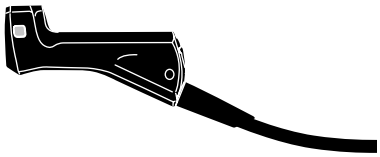
Classification
- Ingress protection rating ..... IPX8 (except plug)

Handpieces

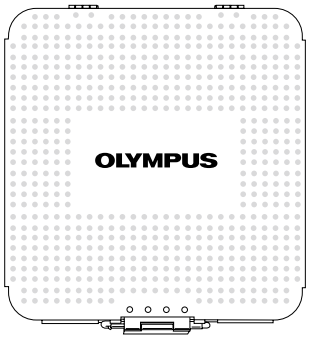
MDHP100A Multidebrider handpiece, angled



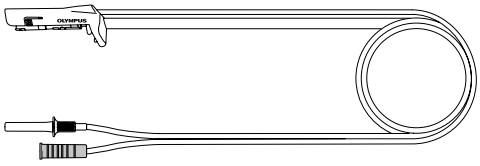
MDHP100S Multidebrider handpiece, straight



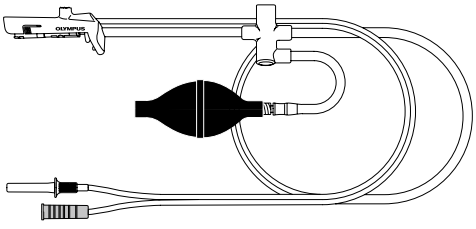
MDHPTRAY Multidebrider handpiece sterilization tray



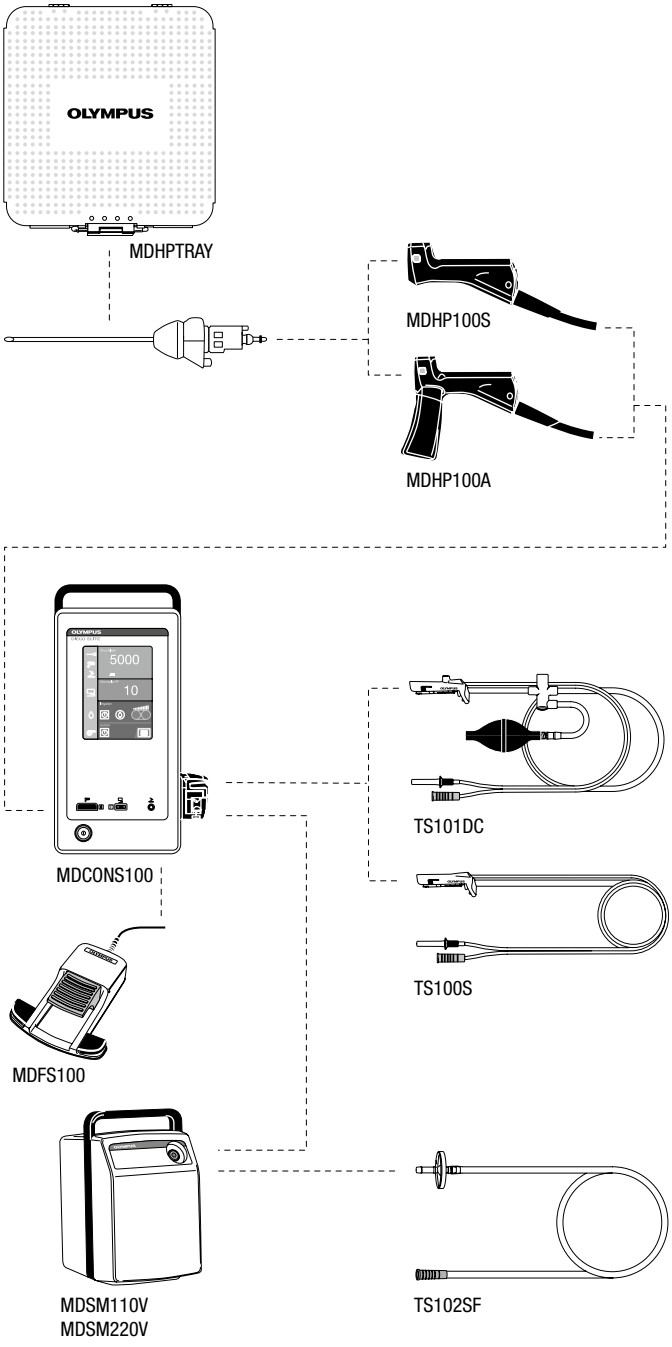
TS100S DIEGO ELITE tubeset, standard, sterile, single use, 5 pcs.



TS101DC DIEGO ELITE tubeset, declog, sterile, single use, 5 pcs.



System Chart

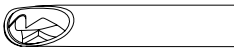


DIEGO ELITE

Multidebrider (cont.)

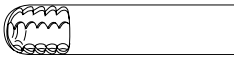
Sinus Application Blades

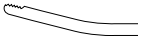
Shaver blade, standard, type A, sterile, single use, 5 pcs.



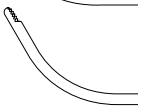
SB4000SA	4 mm, straight
SB4800SA	4.8 mm, straight

Shaver blade, standard, serrated, distal suction, sterile, single use, 5 pcs.









SB2900SS	2.9 mm, straight
SB2940SS	2.9 mm, 40°
SB2975SS	2.9 mm, 75°
SB4000SS	4 mm, straight
SB4015SS	4 mm, 15°
SB4040SS	4 mm, 40°
SB4060SS	4 mm, 60°

Shaver blade, rotatable, serrated, distal suction, sterile, single use, 5 pcs.



SB4040RS	4 mm, 40°
SB4060RS	4 mm, 60°
SB4090RS	4 mm, 90°

Bipolar blade, standard, serrated, distal suction, sterile, single use, 5 pcs.





BB4000SS	4 mm, straight
BB4040SS	4 mm, 40°

MB4000SS Monopolar blade, standard, serrated, 4 mm, straight, sterile, single use, 5 pcs.

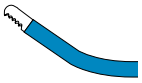


Working end: Geometry straight edge form, serrated with distal suction

Tonsils and Adenoid Application Blades

MS4000SS Malleable blade, 4 mm, 0° – 40°, serrated, T/A, distal suction, sterile, single use, 5 pcs.





Convex window orientation shown

BB4040XS Bipolar blade, 4 mm, 40°, convex, serrated, sterile, single use, 5 pcs.

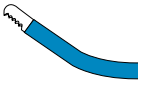




Convex window orientation shown

MM4000SS Malleable monopolar blade, 4 mm, 0° – 40°, serrated, T/A, sterile, single use, 5 pcs.

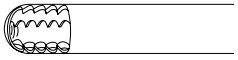




Convex window orientation shown

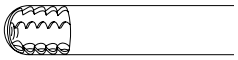
Non Distal Suction Blades

Shaver blade, standard, serrated, closed, sterile, single use, 5 pcs.



SB4000SC	4 mm, straight
SB4015SC	4 mm, 15°
SB2940SC	2.9 mm, 40°
SB4040SC	4 mm, 40°
SB4060SC	4 mm, 60°
SB2975SC	2.9 mm, 75°

Shaver blade, rotatable, serrated, closed, sterile, single use, 5 pcs.



SB4040RC	4 mm, 40°
SB4060RC	4 mm, 60°
SB4090RC	4 mm, 90°

Turbinate Application Blades

SB2000SA Shaver blade,
2 mm, straight,
standard, type A,
sterile, single use, 5 pcs.

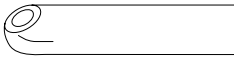


BB2000SA Bipolar blade,
2 mm, straight,
standard, type A,
sterile, single use, 5 pcs.



Laryngeal Application Blades

Laryngeal blade,
2.9 mm,
standard, superficial,
sterile, single use, 5 pcs.,

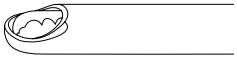


LB2922SS 22 cm
LB2927SS 27 cm

Working end:
Geometry double bend,
18° distal angle, edge form: smooth,
sterile, single use, 5 pcs.

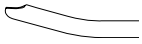


Laryngeal blade,
4.0 mm,
standard, de-bulking,
sterile, single use, 5 pcs.,



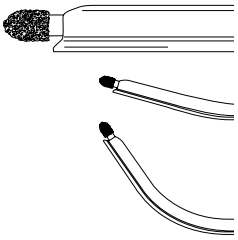
LB4022SD 22 cm
LB4027SD 27 cm

Working end:
Geometry double bend,
18° distal angle, edge form: smooth-serrated,
sterile, single use, 5 pcs.

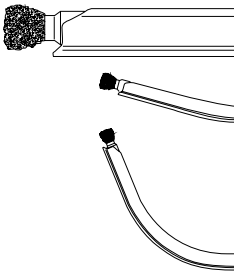


Burrs

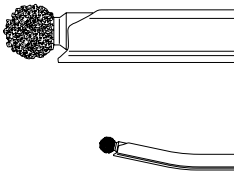
Burr,
3 mm,
diamond bullet,
sterile, single use, 5 pcs.,
BUR3015DB 15 cm, 15°
BUR3070DB 13.5 cm, 70°



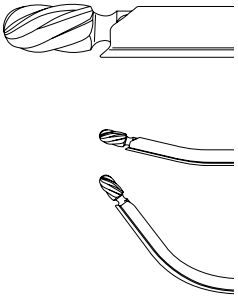
Burr,
4 mm,
diamond taper,
sterile, single use, 5 pcs.,
BUR4015DT 15 cm, 15°
BUR4070DT 13.5 cm, 70°



BUR4515BB Burr,
4.5 mm,
13.5 cm, 15°,
diamond ball burr,
sterile, single use, 5 pcs.



Burr,
4.2 mm,
fluted barrel,
sterile, single use, 5 pcs.,
BUR4215FB 13.5 cm, 15°,
BUR4260FB 13.5 cm, 60°



PK DIEGO

Powered Dissector System



DIEGO
SYSTEM

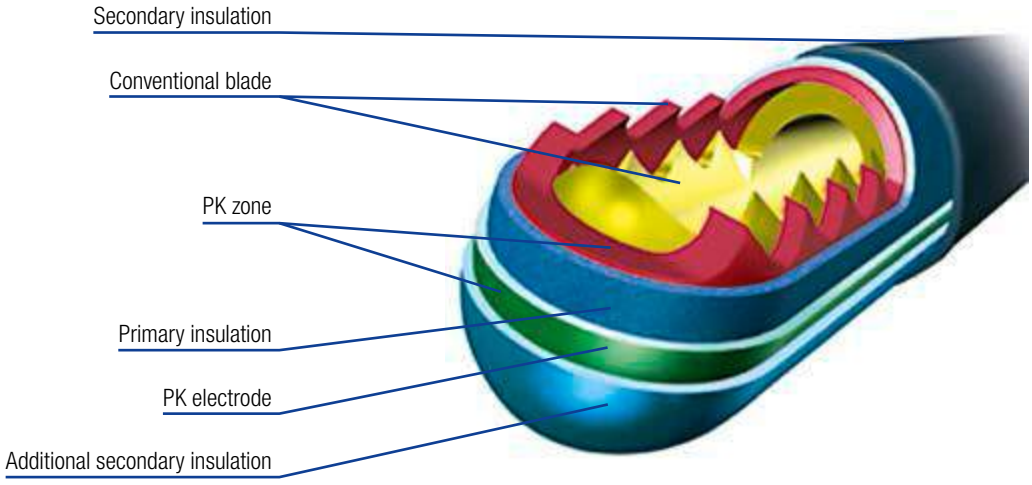
PK TECHNOLOGY

Better Bipolar Energy – How PK Does It

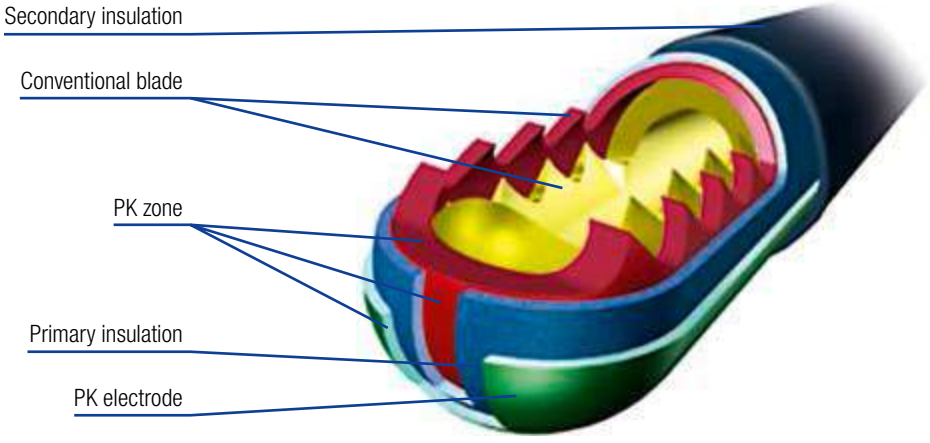
No other platform today combines superior dissection, ergonomic comfort, and bipolar hemostasis like PK DIEGO. In one device, you get a versatile, complete system that saves time. It's the ultimate tool for ENTs – because it was designed by ENTs.

PK takes a relatively small amount of energy and configures it to create a unique waveform with a smoother, more efficient load curve. As a result, hemostasis is safe and gentle, yet highly effective and reliable – and perfectly integrated with precision DIEGO dissection technology.

Sinus Blade



Tonsil and Adenoid Blade



OLYMPUS

Your Vision, Our Future

PK DIEGO

Powered Dissector System (cont.)



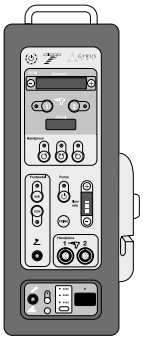
DIEGO SYSTEM

PK TECHNOLOGY

- PK DIEGO combines the award-winning Diego powered mechanical dissection platform and PK Technology.
- PK DIEGO blades allow the surgeon to control ordinary bleeding, either discretely or while dissecting.
- PK DIEGO blades create a gentle hemostatic effect with minimal thermal spread, and less smoke and char than are normally associated with monopolar electro-surgery.

PK DIEGO System Console

70339050 PK DIEGO console,
enabled for both
finger control of handpiece
and PK technology



Delivery includes:
console, power cable (type B, NEMA 5-15, for the USA)

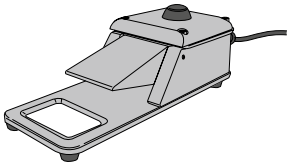
Power cable,
70231054 type G (BS 1363), for UK
70231055 type E/F (CEE 7/7), for continental Europe
70231056 type I (AS 3112), for Australia

Technical Data

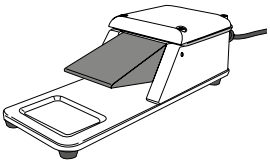
Power supply
Voltage.....100 – 120/220 – 240 V ~
Frequency .....50/60 Hz
Input current.....2 A

Footswitches

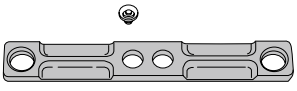
70338011 Footswitch,
for diego console,
illuminated,
green light



70339054 Footswitch,
for PK diego console,
includes coupler 70339053

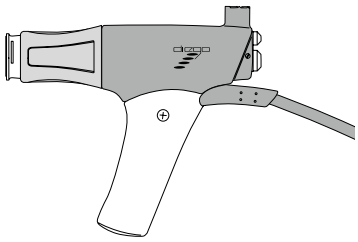


70339053 Coupler,
connects diego and PK diego footswitch

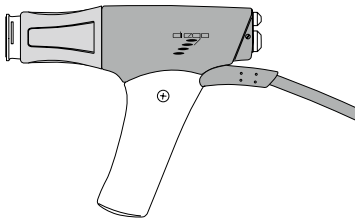


diego Dissector System Handpieces

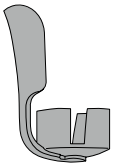
70338010 DIEGO Starlink Handpiece,
compatible with Brainlab Starlink,
and universal IGS adapters 70338012/-8013



70339001 DIEGO handpiece,
enabled for finger control of handpiece



70338008 Trigger DIEGO,
for finger control of handpiece,
sterile, single use,
6 pcs.



Technical Data

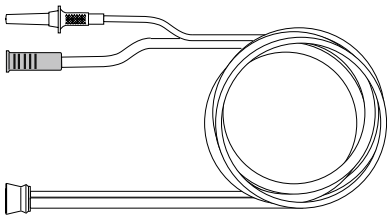
Speed
Oscillation .....5,000 min^{-1}
Forward and reverse.....15,000 min^{-1}
Power ..... High/Medium/Low

PK DIEGO

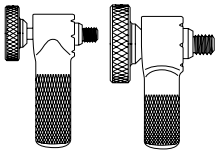
Powered Dissector System (cont.)

Accessories for DIEGO Handpieces

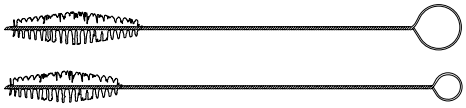
70338003 Tube set,
integrated suction and irrigation lines,
includes cleaning stylets,
sterile,
single use,
6 pcs.



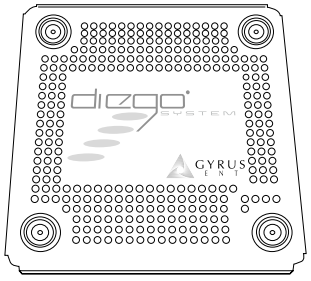
Adapter,
for use with IGS clamping systems,
70338012 small
70338013 large



70338009 Cleaning brush, set,
for DIEGO handpiece,
includes 1 large and 1 small brush,
6 pcs.

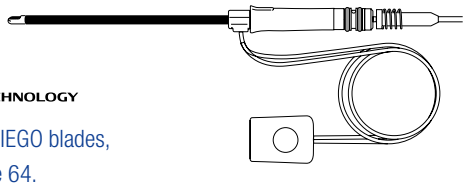


70338005 Instrument tray,
for DIEGO handpieces



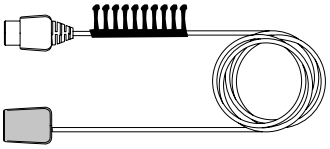
PK DIEGO Blades

Blades with PK Technology create a gentle hemostatic effect with minimal thermal spread, along with less smoke and char that are normally associated with conventional monopolar electro-surgery.

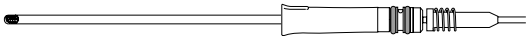


For PK DIEGO blades, see page 64.

70339051 Cable,
for PK blades,
with tube organizer,
reusable,
tested for 50 uses

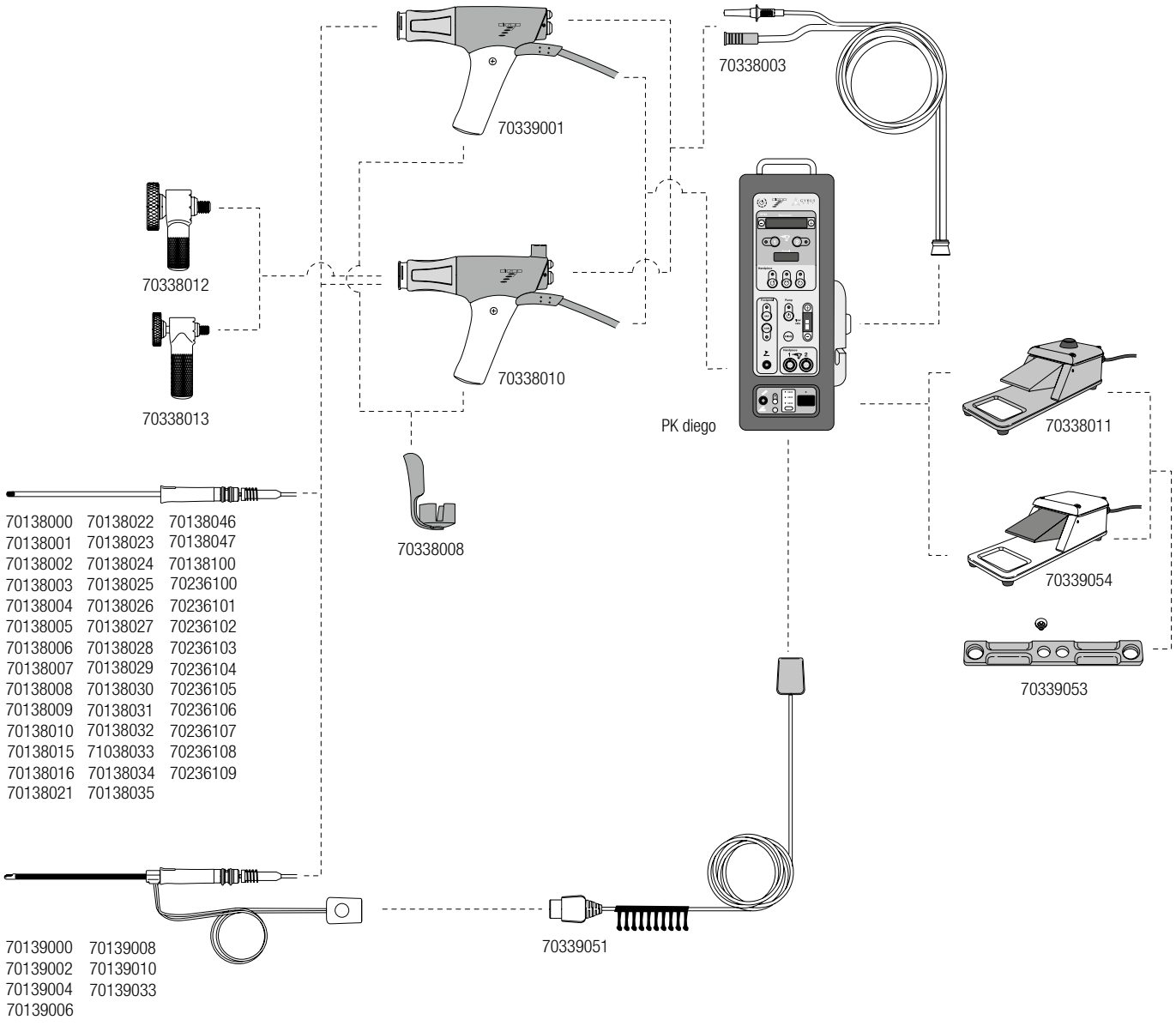


DIEGO Blades



For DIEGO blades, see page 75.

PK DIEGO System Chart



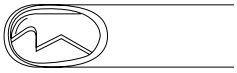
70138000 70138022 70138046
70138001 70138023 70138047
70138002 70138024 70138100
70138003 70138025 70236100
70138004 70138026 70236101
70138005 70138027 70236102
70138006 70138028 70236103
70138007 70138029 70236104
70138008 70138030 70236105
70138009 70138031 70236106
70138010 70138032 70236107
70138015 71038033 70236108
70138016 70138034 70236109
70138021 70138035

70139000 70139008
70139002 70139010
70139004 70139033
70139006

Aggressive Blades (Straight)

The new exclusive aggressive edgeform improves surgical precision through better tissue engagement and removal. A speed setting of 3000 min^{-1} in oscillate mode is recommended.

70138100 Blade, straight, aggressive, sterile, single use, 4.0 mm, 6 pcs.,



70139033 Blade, straight, aggressive, SMR, hemostatic with PK, sterile, single use, 3.0 mm, 6 pcs.



PK TECHNOLOGY

Serrated Blades (Straight)

Blade, straight, serrated, sterile, single use, 6 pcs.,



70138000 4.0 mm
70138035 3.4 mm
70138001 2.9 mm
70138033 2.0 mm

Blade, straight, serrated, hemostatic with PK, sterile, single use, 6 pcs.,



PK TECHNOLOGY

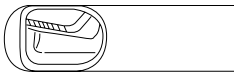
70139000 4.2 mm
70139002 4.8 mm

Smooth Blades (Straight)

70138002 Blade, straight, smooth, round tip, sterile, single use, 4.0 mm, 6 pcs.



70138003 Blade, straight, smooth, square tip, sterile, single use, 4.0 mm, 6 pcs.



Turbinate Blades (Straight)

This blade is ideal for use in turbinate reduction procedures. An exclusive axial orientation line provides visual feedback on window orientation during the time the blade is inserted in the turbinate.

70138033 Blade, straight, serrated, sterile, single use, 2.0 mm, 6 pcs.



70138034 Blade, straight, smooth elongated, sterile, single use, 2.0 mm, 6 pcs.



70139033 Blade, straight, aggressive, SMR, hemostatic with PK, sterile, single use, 3.0 mm, 6 pcs.

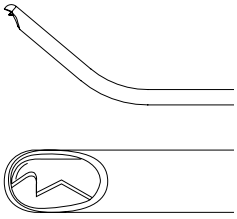


PK TECHNOLOGY

Curved DIEGO Blades

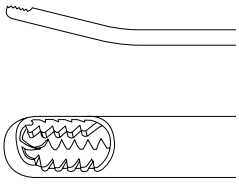
Curved DIEGO blades feature the next generation drive shaft, a recent engineering breakthrough in powered dissection technology, enabling enhanced precision, increased cutting strength and superior fluid evacuation.

Curved Aggressive Blades



70138106	Blade, curved, angled 40°, aggressive, sterile, single use, 6 pcs., 4.0 mm convex window

15° Curved Blades



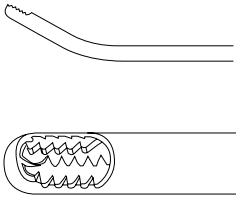
	Blade, curved, angled 15°, serrated, sterile, single use, 6 pcs.,
70138004	4.0 mm, concave window
70138010	4.0 mm, convex window
70138028	2.9 mm, concave window



PK TECHNOLOGY

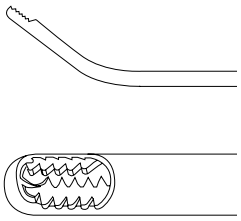
	Blade, curved, angled 15°, serrated, hemostatic with PK, sterile, single use, 6 pcs.,
70139004	4.8 mm, concave window
70139010	4.8 mm, convex window

30° Curved Blades



	Blade, curved, angled 30°, serrated, sterile, single use, 6 pcs.,
70138005	4.0 mm, concave window
70138029	2.9 mm, concave window

40° Curved Blades



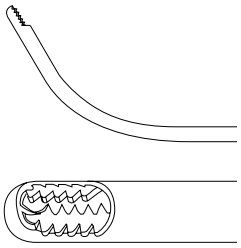
	Blade, curved, angled 40°, serrated, sterile, single use, 6 pcs.,
70138007	4.0 mm, convex window
70138008	4.0 mm, concave window
70138030	2.9 mm, concave window



PK TECHNOLOGY

	Blade, curved, angled 40°, serrated, sterile, single use, 6 pcs., hemostatic with PK,
70139008	4.8 mm, concave window
70139006	4.8 mm, convex window

60° Curved Blades

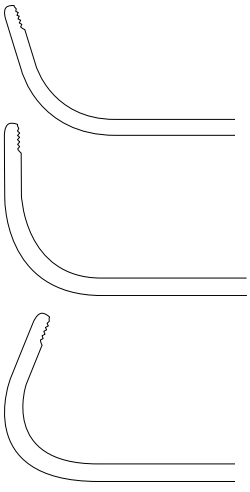


	Blade, curved, angled 60°, serrated, sterile, single use, 6 pcs.,
70138009	4.0 mm, concave window
70138031	2.9 mm, concave window

75°, 90°, 110° Curved Blades



Ideal for use in maxillary or frontal sinus procedures



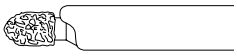
	Blade, curved, serrated, sterile, single use, 6 pcs., concave window,
70138027	angled 75°, 4.0 mm
70138032	angled 75°, 2.9 mm
70138046	angled 90°, 4.0 mm
70138047	angled 110°, 4.0 mm

DIEGO System

Burrs, Nasopharyngeal and Laryngeal Application Blades

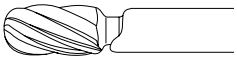
Burrs

Burr, diamond type,
bullet, suction, irrigating,
3 mm bit diameter,
sterile, single use, 3 pcs.,



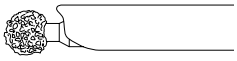
70236100	straight
70236103	15° shaft angle
70236104	40° shaft angle
70236105	70° shaft angle

Burr, fluted type,
barrel, suction, irrigating,
4.2 mm bit diameter,
sterile, single use, 3 pcs.,



70236101	straight
70236106	15° shaft angle
70236107	60° shaft angle

Burr, diamond type,
ball, suction, irrigating,
4.5 mm bit diameter,
sterile, single use, 3 pcs.,



70236102	straight
70236108	15° shaft angle

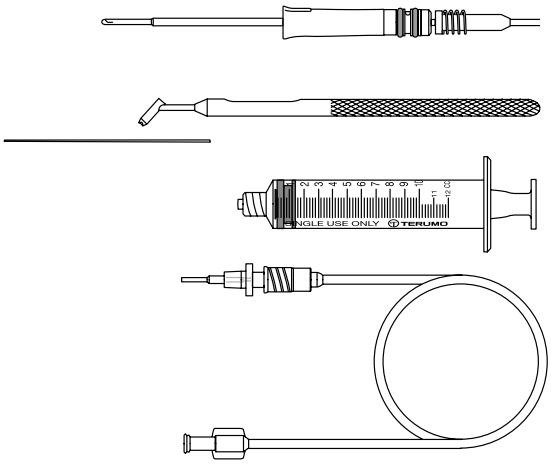
Burr, diamond type,
taper, suction, irrigating,
4 mm bit diameter,
sterile, single use, 3 pcs.,



70236109	15° shaft angle
70236110	70° shaft angle

Frontal Trephination

70138017 Frontal trephination set,
single-use,
sterile, single use, 3 pcs.

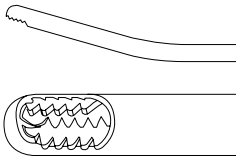


Delivery includes:
trephine drill bit (2 mm Ø), guide wire, syringe (20 ml),
irrigating cannula and tubing set

70138019 Drill guide,
reusable,
2.25 mm passage

Tonsil and Adenoid Blades

70138010 Blade, curved,
15° shaft angle,
tonsil, serrated,
convex window,
4 mm,
sterile, single use, 6 pcs.

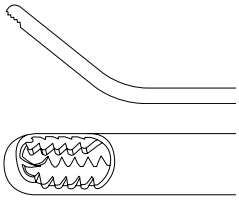


70139010 Blade, curved,
tonsil, serrated,
hemostatic with PK,
4.8 mm, convex window,
15° shaft angle,
sterile, single use, 6 pcs.



PK TECHNOLOGY

70138006 Blade, curved,
40° shaft angle,
tonsil, adenoid, serrated,
convex window,
4 mm,
sterile, single use, 6 pcs.



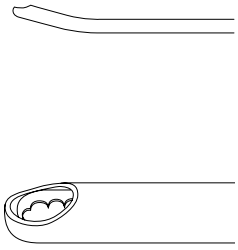
70139006 Blade, curved,
tonsil and adenoid, serrated,
hemostatic with PK,
4.8 mm, convex window,
40° shaft angle,
sterile, single use, 6 pcs.



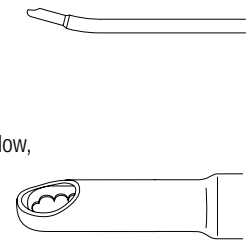
PK TECHNOLOGY

Debulking Blades

Blade, double bend,
18° distal angle,
serrated, debulking, subglottic,
sterile, single use, 3 pcs.,
4.0 mm, concave window,
70138015 220 mm
70138023 270 mm

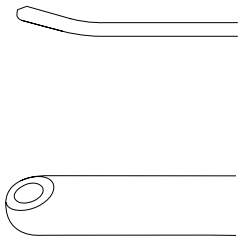


Blade, double bend,
18° distal angle,
serrated, debulking, supraglottic,
sterile, single use, 3 pcs.,
3.2 mm, swagged tip, convex window,
70138021 220 mm
70138025 270 mm

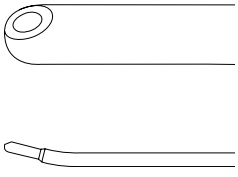


Superficial Blades

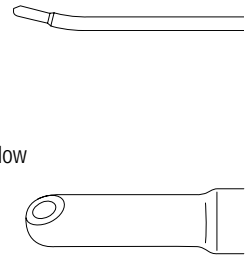
Blade, double bend,
18° distal angle,
smooth, superficial,
sterile, single use, 3 pcs.,
supraglottic, 220 mm,
70138016 4.0 mm, convex window
70138050 2.9 mm, convex window



Blade, double bend,
18° distal angle,
smooth, superficial,
sterile, single use, 3 pcs.,
subglottic, 270 mm,
70138024 4.0 mm, convex window
70138051 2.9 mm, convex window



Blade, double bend,
18° distal angle,
smooth, superficial, supraglottic,
sterile, single use, 3 pcs.,
3.2 mm, swagged tip, convex window
70138022 220 mm
70138026 270 mm



OLYMPUS

Your Vision, Our Future

Viper Otology Drill System







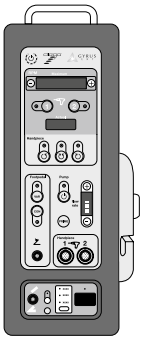


The Viper Drill System places success at your fingertips. The configuration of handpieces and consoles gives you a drill for every otologic procedure, from the most delicate to the most demanding.

- The ergonomic, balanced Viper drill mastoid handpieces help you perform quick mastoid resection.
- The delicate yet powerful micro drill supports the full range of vestibular and anterior canal wall drilling.
- The Diego console drives powered dissection for every subspecialty of ENT. The Diego console's labels are easy to read, and lighted power and LED tachometer speed information at a glance.
- The easy-to-load, and elegant integrated irrigation pump drives irrigation for both the mastoid and powered dissector handpieces.
- The console is designed for IV-pole mounting and includes a convenient space for footswitch storage.
- Illumination on the footswitch helps the surgeon to readily identify it during surgery.
- With Diego, Viper, and Stapes handpieces, the Diego ENT workstation provides you with an overall powered dissection option.

PK diego System Console

70339050 Console “PK diego”,
enabled for both
finger control of handpiece
and PK technology



Delivery includes:
console, power cable (type B, NEMA 5-15, for the USA)

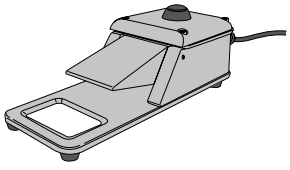
Power cable,
70231054 type G (BS 1363), for UK
70231055 type E/F (CEE 7/7), for continental Europe

Technical Data

Power supply
Voltage..... 100 – 120/220 – 240 V ~
Frequency .....50/60 Hz
Input current.....2 A

Footswitch

70338011 Footswitch,
for diego console



Irrigation

70336900 Viper irrigation tubing,
6 pcs.

70921605 Irrigation tubing,
replacement

70338007 Pump tubing “Viper”,
with irrigation spike,
6 pcs.

Otology Drill Handpieces

Viper handpiece,
for diego console,
70338030 straight
70338031 angled



Technical Data

Motor
Maximum Speed.....44,000 min^{-1}
Weight
EG70338031 .....124.74 g (4.4 oz.)
EG70338030 ..... 107.73 g (3.8 oz.)

Accessories for Handpieces

70921443 O rings,
for handpieces

70325512 Cleaning kit,
for handpieces,
6 pcs.

325507 Instrument tray,
for handpieces

325509 Instrument tray,
for handpieces,
with burr rack set

Drill Burr Line

for Viper Otology Drill System

Mastoid Drill Burr Line

	Burr, diamond, sterile, single use,
70326500	0.5 x 65 mm
70326501	1.0 x 65 mm
70326502	1.5 x 65 mm
70326503	2.0 x 65 mm
70326504	2.5 x 65 mm
70326505	3.0 x 65 mm
70326506	3.5 x 65 mm
70326507	4.0 x 65 mm
70326508	4.5 x 65 mm
70326509	5.0 x 65 mm
70326510	5.5 x 65 mm
70326511	6.0 x 65 mm
70326512	6.5 x 65 mm
70327000	0.5 x 70 mm
70327001	1.0 x 70 mm
70327002	1.5 x 70 mm
70327003	2.0 x 70 mm
70327004	2.5 x 70 mm
70327005	3.0 x 70 mm
70327006	3.5 x 70 mm
70327007	4.0 x 70 mm
70327008	4.5 x 70 mm
70327009	5.0 x 70 mm
70327010	5.5 x 70 mm
70327011	6.0 x 70 mm
70327012	6.5 x 70 mm
70328000	0.5 x 80 mm
70328001	1.0 x 80 mm
70328002	1.5 x 80 mm
70328003	2.0 x 80 mm
70328004	2.5 x 80 mm
70328005	3.0 x 80 mm
70329001	1.0 x 90 mm
70329003	2.0 x 90 mm
70329005	3.0 x 90 mm
70329007	2.0 x 90 mm
70329009	2.5 x 90 mm
70329011	3.0 x 90 mm

Mastoid Drill Burr Line

	Burr, round cutting, sterile, single use,
70326532	0.5 x 65 mm, 6 flutes
70326533	1.0 x 65 mm, 6 flutes
70326534	1.5 x 65 mm, 6 flutes
70326535	2.0 x 65 mm, 6 flutes
70326536	2.5 x 65 mm, 6 flutes
70326537	3.0 x 65 mm, 6 flutes
70326538	3.5 x 65 mm, 6 flutes
70326539	4.0 x 65 mm, 8 flutes
70326540	4.5 x 65 mm, 8 flutes
70326541	5.0 x 65 mm, 10 flutes
70326542	5.5 x 65 mm, 10 flutes
70326543	6.0 x 65 mm, 12 flutes
70326544	6.5 x 65 mm, 12 flutes
70327033	1.0 x 70 mm, 6 flutes
70327034	1.5 x 70 mm, 6 flutes
70327035	2.0 x 70 mm, 6 flutes
70327036	2.5 x 70 mm, 6 flutes
70327037	3.0 x 70 mm, 6 flutes
70327038	3.5 x 70 mm, 8 flutes
70327039	4.0 x 70 mm, 8 flutes
70327040	4.5 x 70 mm, 8 flutes
70327041	5.0 x 70 mm, 10 flutes
70327042	5.5 x 70 mm, 10 flutes
70327043	6.0 x 70 mm, 12 flutes
70327044	6.5 x 70 mm, 12 flutes

Burr Rack

325508	Rack, for mastoid burrs

Stapes Drill Burr Line

	Burr, cutting, for stapes, nonsterile, reusable,
70326100	0.5 mm
70326101	0.6 mm
70326102	0.7 mm
70326103	0.8 mm
70326104	0.9 mm
70326105	1.0 mm
70326106	1.3 mm
70326107	1.5 mm
70326108	1.7 mm
70326109	1.9 mm
70326110	2.0 mm
70326111	2.3 mm
70326132	3.0 mm
	Burr, diamond, for stapes, nonsterile, reusable,
70326120	0.5 mm
70326121	0.6 mm
70326122	0.7 mm
70326123	0.8 mm
70326124	0.9 mm
70326125	1.0 mm
70326126	1.3 mm
70326127	1.5 mm
70326128	1.7 mm
70326129	1.9 mm
70326130	2.0 mm
70326131	2.3 mm
70326133	3.0 mm

Accessories for Stapes Drill Burrs

70325710	Instrument tray, for drill burrs 703261xx
70325711	Rack, for stapes burrs
130082	Cleaning brush, for stapes burrs

RFITT

Bipolar Radiofrequency-Induced Thermotherapy



The bipolar radiofrequency - induced thermotherapy (RFITT) technique represents an effective, user-friendly and safe alternative to conventional surgical methods, to laser technology and to monopolar high-frequency applications.

How Does Bipolar RFITT Work?

The method is based on the principle of local thermal destruction of pathologically altered tissue by use of radiofrequency current. In other words, by heating to over 80 °C, the affected tissue is destroyed and resorbed by the body within a short time, leading to a volume reduction of the tissue. In addition, the body forms scar tissue which results in the tightening of the treated area.

The bipolar electrode arrangement used in the Celon applicator permits precise delimitation of the treatment area, because the flow of current takes place exclusively between the two poles at the tip of the applicator. In monopolar methods, by contrast, the current flows through the whole body of the patient. Bipolar RFITT is thus even suitable for treating patients with heart pacemakers. A further advantage of the Celon method is that in most cases it can be performed on an outpatient basis under local anaesthesia and with only minimal pain and discomfort to the patient. It also involves very little bleeding and is an extremely efficient form of treatment.

Left:
Area of current flow on a bipolar RFITT applicator tip

CELON

RFITT in ENT

In ENT treatment, bipolar RFITT is particularly successful for turbinate hypertrophy and chronic snoring. However, the Celon method can also be used to gently treat more serious conditions such as obstructive sleep apnoea, where breathing is interrupted during the night, thereby leading to a lack of oxygen supply to the body. It is also suitable for treating hypertrophic tonsils.

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ESG-200

CELON ELITE



The CELON system is a procedure-oriented, safe and efficient solution for ENT specialists. The CELON system uses bipolar radiofrequency-induced thermotherapy (RFITT) which allows minimally invasive and impedance-controlled tissue ablation.

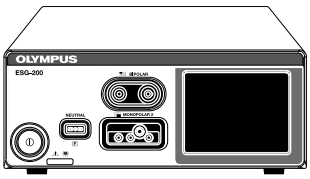
- Impedance-controlled
- Tissue monitoring for safe and efficient procedures
- Smart instrument design for ergonomic treatment
- Mode selection for procedure-oriented treatment
- Smart user interface to personalize procedure settings and save time.
- Efficient and economical outpatient treatment
- Full range of monopolar and bipolar standard modes for procedures in the office or operating room

CELON

CELON ELITE ESG-200

Electrosurgical generator “CELON ELITE ESG-200”,

WA90001A E type
WA90002A B type



Radiofrequency based power control unit for RFITT and standard electrosurgical procedures. Controls Celon bipolar applicators and Celon Elite ProCut system. Continuous tissue monitoring allows precise and safe tissue ablation for a variety of ENT indications. Settings can be personalized to simplify the everyday work routine for the ENT specialist and medical staff.

Delivery includes:
Electrosurgical generator, foot switch

Technical Data

Power supply
- Voltage ..... 100-120 V~/ 220 – 240 V ~
- Maximum input power ..... 650 VA

Dimensions
- Width ..... 295 mm
- Height ..... 115 mm
- Depth ..... 400 mm
- Weight ..... 6.61 kg

Classification
- Protection against electric shock ..... type CF, class I
- Directive 93/42/EEC ..... class IIb

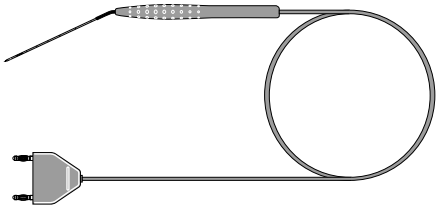
Output
- High frequency functions ..... monopolar/bipolar
- High frequency ..... 356 kHz ±20%
- Maximum high frequency power ..... 120 W
- All modes ..... 25% duty cycle (e.g. 10 s activated, 30 s deactivated)

Ambient conditions
- Operation temperature ..... 10 – 40 °C
  relative humidity 30 – 85 %
  atmospheric pressure 70 – 106 hPa
- Transport and storage ..... temperature -25 – 60 °C
  relative humidity 10 – 85 %
  atmospheric pressure 50 – 106 hPa

CelonProBreath Applicator

WB990007 Bipolar applicator “CelonProBreath”

for use with CELON ELITE ESG-200,
sterile, single use, 5 pcs.



Application:
Indicated for ablation and coagulation of soft tissue in otorhinolaryngological surgery including submucosal tissue shrinkage for nasal airway obstruction by reduction of hypertrophic nasal turbinates.

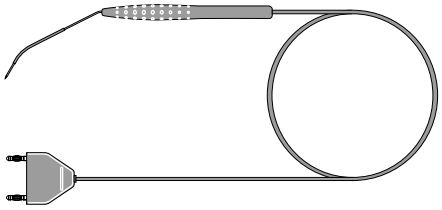
Technical Data

- Applicator tip ..... conical
- Electrode diameter ..... 1.1 mm
- Electrode length ..... 100 mm
- Handle length ..... 140 mm
- Cable length ..... 3 m
- Power range ..... 0 – 25 W

CelonProSleep plus Applicator

WB990008 Bipolar applicator “CelonProSleep plus”

for use with CELON ELITE ESG-200,
sterile, single use, 5 pcs.



Application:
Ablation and coagulation of soft tissue in otorhinolaryngological surgery including submucosal tissue shrinkage and tissue coagulation in the soft palate for the treatment of snoring, in the palatine tonsils for the treatment of tonsillar hypertrophy, and in the root of the tongue for the treatment of mild obstructive sleep apnoea (OSAS).

Technical Data

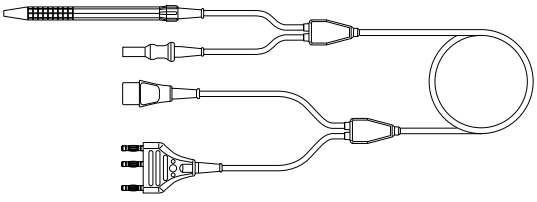
- Applicator tip ..... triangular
- Electrode diameter ..... 1.3 mm
- Electrode length ..... 140 mm
- Cable length ..... 3 m
- Power range ..... 0 – 25 W

CELON ELITE ProCut System

The CELON ProCut functionality enables monopolar cutting with the advantages of bipolar technology.

- Gentle and precise cutting
- Cutting with constant spark intensity in various tissues
- Short treatment time as a return electrode is not needed
- RF current remains confined to the tissue area undergoing treatment
- Can be used in an outpatient setting as well as the OR

WB990278 Handpiece "CELON ELITE ProCut"



WB990177 CelonProCut-Electrode Type1
(5 pcs)



- sterile, single use

WB990202 CelonProCut-Gripping Forceps, angled

- monopolar



CelonForceps

Bipolar coagulation forceps for use with CELON ELITE ESG-200

WB990033 CelonForceps, angled
(19cm, tip 2mm)

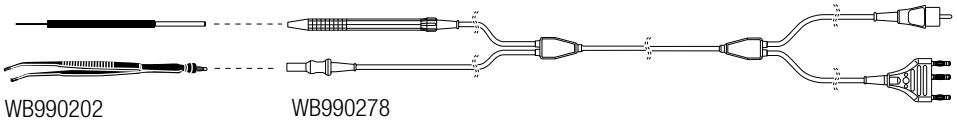


WB990034 CelonForceps, bayonet
(20cm, tip 1mm)

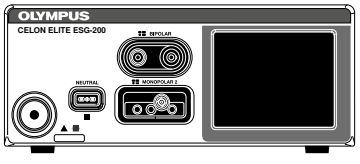


System Chart

WB990177



WB990202 WB990278



CELON ELITE ESG-200

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CelonENT

RFITT for ENT Treatment





Bipolar radiofrequency-induced thermotherapy (RFITT) is a minimally invasive method for thermal shrinkage and stiffening of excessive tissue.

- Totally bipolar
  No neutral electrode required
  No current flow through the delicate head-neck-region
  Easy and convenient

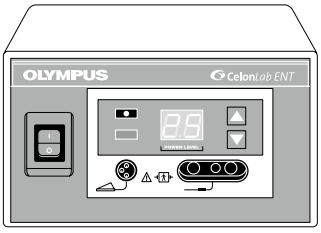
- Maximum patient comfort
  Impedance feedback with acoustic signal
  Low risk of bleeding
  Surface of the organ remains intact (concha epithelium and mucous membranes)
  Low peri- and post-op pain level
  Local anaesthesia possible

- Fast and secure
  Safe procedure and reproducible lesion size thanks to auto-stop function

CELON

CelonLab ENT Power Control Unit

WB991001 CelonLab ENT 200-240 V~ (KIT)
WB991007 CelonLab ENT 100-120 V~ (KIT)



Power control unit with acoustic monitoring of the coagulation process and automatic dosimetry control for reproducible lesion sizes. Controls Celon bipolar applicators and Celon ProCut bipolar tissue cutting system for ENT applications.

Delivery includes:
control unit, foot switch

Technical Data

Power supply
- Voltage (WB991001 ..... 200 – 240 V ~
- Voltage (WB991007) ..... 100 – 120 V ~
- Power consumption ..... < 95 VA

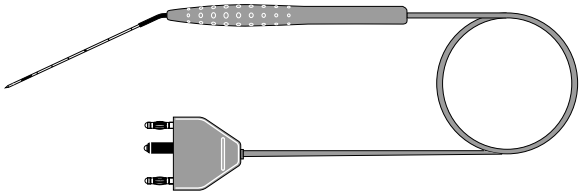
Dimensions
- Width ..... 335 mm
- Height ..... 165 mm
- Depth ..... 267 mm
- Weight (incl. foot switch) ..... 8.3 kg

Output
- Power ..... 1 – 25 W in 1 W steps
- Frequency ..... 470 kHz (±10 kHz)

CelonProBreath Applicator

WB990004 CelonProBreath (5 pcs)

for use with CelonLabENT power control unit,
sterile, single use



Application:
Submucosal volume reduction of the hyperplastic nasal concha without damaging the ciliated epithelium, essential for proper function of the nose.

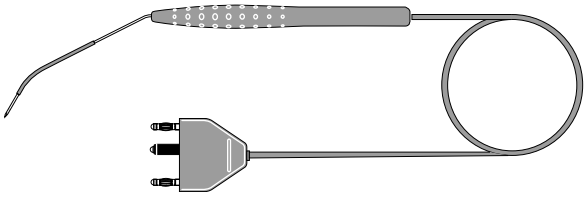
Technical Data

- Applicator tip ..... conical
- Electrode diameter ..... 1.1 mm
- Electrode length ..... 100 mm
- Handle length ..... 140 mm
- Cable length ..... 3 m
- Power range ..... 0 – 25 W

CelonProSleep plus Applicator

WB990095 CelonProSleep plus (5 pcs)

for use with CelonLabENT power control unit,
sterile, single use



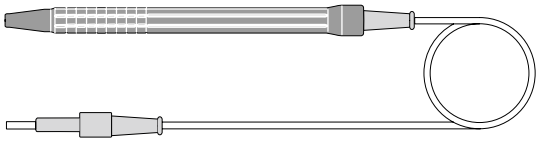
Application:
Volume reduction and tightening of the soft palate tissue to reduce habitual snoring, combined treatment of the soft palate and the base of the tongue to treat mild cases of obstructive sleep apnea syndrome (OSAS), volume reduction of the hyperplastic palatine tonsils, while leaving the lymphatic tissue intact.

Technical Data

- Applicator tip ..... triangular
- Electrode diameter ..... 1.3 mm
- Electrode length ..... 100 mm
- Handle length ..... 140 mm
- Cable length ..... 3 m
- Power range ..... 0 – 25 W

CelonProCut Bipolar Cutting Accessories

WB990178 CelonProCut-Electrode Handpiece



WB990177 CelonProCut-Electrode Type1
(5 pcs)

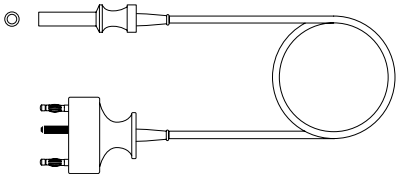


- sterile, single use

WB990202 CelonProCut-Gripping Forceps,
angled



WB925039 CelonProCut-ForcepsCable



CelonForceps

Bipolar coagulation forceps for use
with CelonLabENT power control unit.

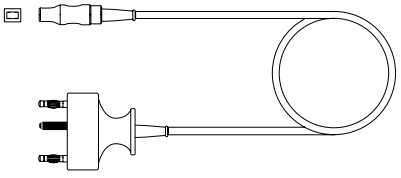
WB990033 CelonForceps, angled
(19cm, tip 2mm)



WB990034 CelonForceps,
bayonet
(20cm, tip 1mm)



WB990035 CelonCable FO



- Cable to connect CelonForceps with
  CelonLabENT power control unit.

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Schuknecht Set, Shea Set 213
Shea/Robertson Set
Posterior Fossa Set 215


EXPLORENT

EXPLORENT INSTRUMENTS

Manufacturer
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

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Tuning Forks, Noise Apparatus



EXPLORENT

- Tuning forks with or without foot
- Noise apparatus with olive tip

Hartmann Tuning Forks

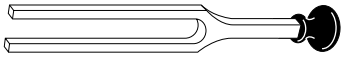
Turning fork, acc. to Hartmann
nickel-plated steel

WT138000	Tuning fork, acc. to Hartmann, concert pitch C = 128
WT138001	Tuning fork, acc. to Hartmann, concert pitch C1 = 256
WT138002	Tuning fork, acc. to Hartmann, concert pitch C2 = 512
WT138003	Tuning fork, acc. to Hartmann, concert pitch C3 = 1024
WT138004	Tuning fork, acc. to Hartmann, concert pitch C4 = 2048
WT138005	Tuning fork, acc. to Hartmann, concert pitch C5 = 4096



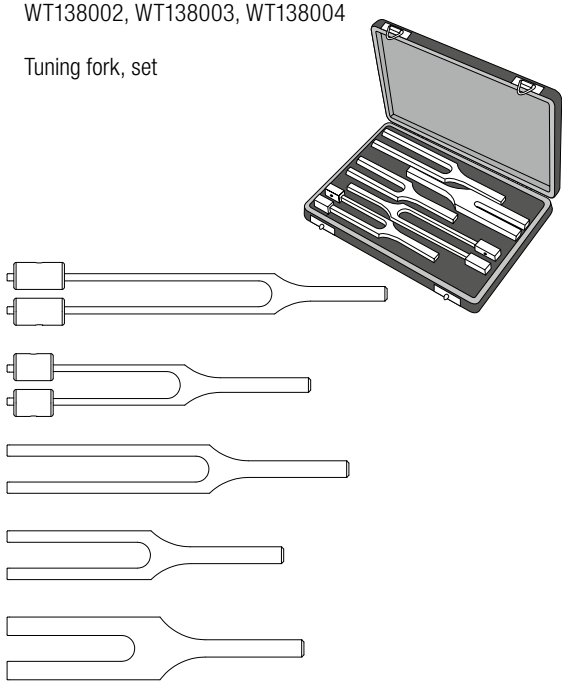
Tuning fork
nickel-plated steel, with foot

WT138301	Tuning fork, with foot, concert pitch A1 = 440



Tuning fork, set
in case
Delivery includes: tuning forks WT138201, WT138202, WT138002, WT138003, WT138004

WT138500	Tuning fork, set



Barany Noise Apparatus

Noise aparatus, acc. to Barany
with olive tip

WT139000	Noise aparatus, acc. to Barany, with olive



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Anastigmatic Aureal Magnifier



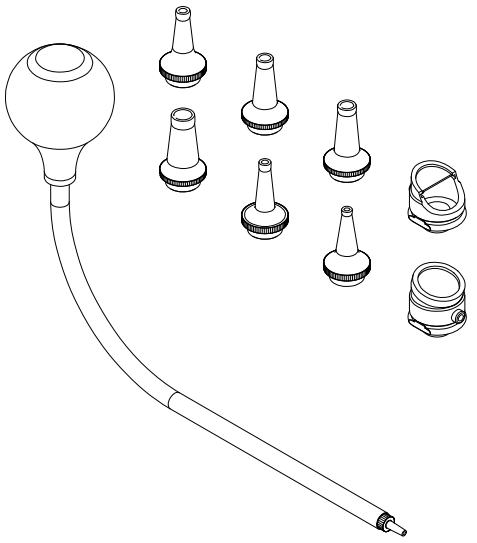
- Different sets
- Models with open and closed head
- Heads with or without magnification
- Additional specula available

EXPLORENT

Bruenings Anastigmatic Aureal Magnifier

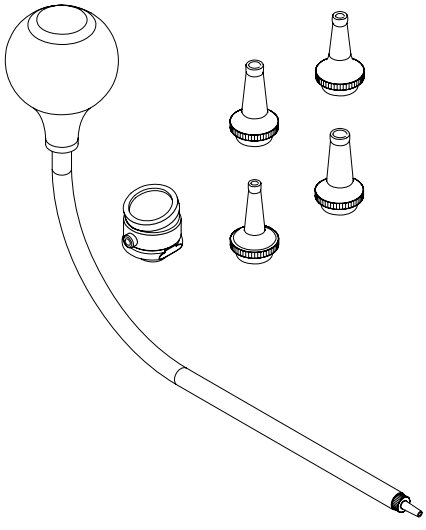
Aureal magnifier, set with small specula
complete in wooden case
Delivery includes:
ear specula WT119620, WT119610, WT119601, WT119602, WT119603, WT119604, diagnostic heads WT119800, WT119900, rubber bulb WT119300

WT120600 Anastigmatic aureal magnifier, acc. to Brünings, Set S



Aureal magnifier, set with large specula
complete in wooden case
Delivery includes:
ear specula WT119610, WT119601, WT119602, WT119603, diagnostic head WT119800, rubber bulb WT119300

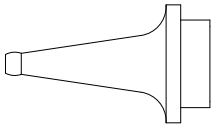
WT119000 Anastigmatic aureal magnifier, acc. to Brünings, Set L



Bruenings Ear Specula

Ear speculum, acc. to Bruenings
inner and outer diameters (mm)

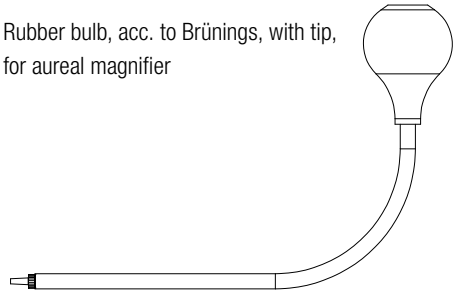
WT119620 Ear speculum, acc. to Brünings, size 2.5 x 4.0
WT119610 Ear speculum, acc. to Brünings, size 3.0 x 4.8
WT119601 Ear speculum, acc. to Brünings, size 4.0 x 6.0
WT119602 Ear speculum, acc. to Brünings, size 5.0 x 7.0
WT119603 Ear speculum, acc. to Brünings, size 6.5 x 8.5
WT119604 Ear speculum, acc. to Brünings, size 8.5 x 10.5



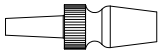
Bruenings Components

Rubber bulb

WT119300 Rubber bulb, acc. to Brünings, with tip, for aureal magnifier

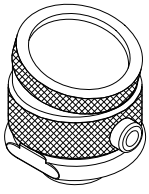


WT119400 Connector, for Bruenings rubber bulb (not shown)



Diagnostic head
closed and open type, with and without magnification

WT119700 Diagnostic head, acc. to Brünings, closed, without magnification
WT119800 Diagnostic head, acc. to Brünings, closed, with magnification
WT119900 Diagnostic head, acc. to Brünings, open, without magnification



Ear Specula





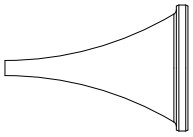
- Matt-finished and ebony-finished models
- Models for infants and adults
- Models with round and oval oblique end

EXPLORENT

Hartmann Ear Specula

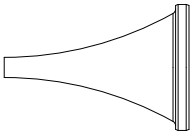
Ear speculum, acc. to Hartmann
stainless steel, matt finish,
36 mm length,
various diameters (mm)

WT118000	Ear speculum, acc. to Hartmann 1.8 x 36
WT118001	Ear speculum, acc. to Hartmann 3.2 x 36
WT118002	Ear speculum, acc. to Hartmann 4.0 x 36
WT118003	Ear speculum, acc. to Hartmann 5.3 x 36
WT118004	Ear speculum, acc. to Hartmann 6.5 x 36



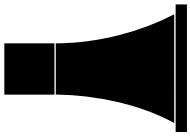
Ear speculum, for postoperative treatment
matt finish, round, various inner diameters (mm)

WT118101	Ear speculum, for postoperative treatment, size 8.0
WT118102	Ear speculum, for postoperative treatment, size 9.0



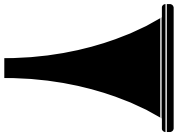
Ear speculum, for postoperative treatment
ebony finish, round, 9 mm inner diameter

WT118109	Ear speculum, for postoperative treatment, black, size 9



Ear speculum, acc. to Hartmann
ebony finish, round
various inner diameters (mm)

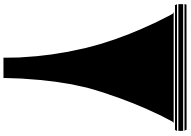
WT118301	Ear speculum, acc. to Hartmann, black, size 3.0
WT118302	Ear speculum, acc. to Hartmann, black, size 4.0
WT118303	Ear speculum, acc. to Hartmann, black, size 5.0
WT118304	Ear speculum, acc. to Hartmann, black, size 7.0



Toynbee Ear Specula

Ear speculum, acc. to Toynbee
matt finish, round, various inner diameters (mm)

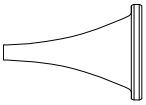
WT118401	Ear speculum, acc. to Toynbee, size 3.2
WT118402	Ear speculum, acc. to Toynbee, size 4.0
WT118403	Ear speculum, acc. to Toynbee, size 5.3



Politzer Ear Specula

Ear speculum, acc. to Politzer
infant type, matt finish, round,
27 mm length, various inner diameters (mm)

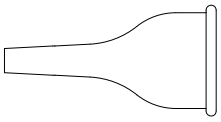
WT118201	Ear speculum, acc. to Politzer, short, size 2.0 x 27
WT118202	Ear speculum, acc. to Politzer, short, size 3.0 x 27
WT118203	Ear speculum, acc. to Politzer, short, size 4.0 x 27



Gruber Ear Specula

Ear speculum, acc. to Gruber

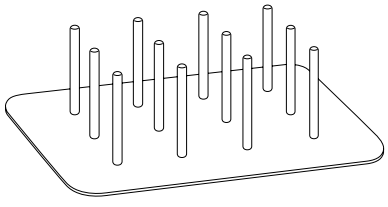
WT118702	Ear speculum, acc. to Gruber, oval, size 3.8 x 4.8
WT118703	Ear speculum, acc. to Gruber, oval, size 5.0 x 5.2
WT118704	Ear speculum, acc. to Gruber, oval, size 6.0 x 7.2



Accessories

Stand for speculum
140 mm length, 105 mm width, 50 mm height

WT118612	Stand, for 12 ear speculum, size 140 x 105 x 50

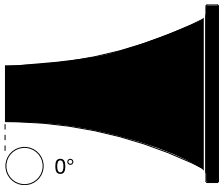


Ear Specula
(cont.)

Farrior Ear Specula

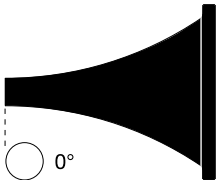
Ear speculum, acc. to Farrior
stainless steel, special dull polish, round, regular end,
various inner diameters (mm)

WT216001	Ear speculum, acc. to Farrior, round, straight, size 4.5
WT216002	Ear speculum, acc. to Farrior, round, straight, size 5.5
WT216003	Ear speculum, acc. to Farrior, round, straight, size 6.5
WT216004	Ear speculum, acc. to Farrior, round, straight, size 7.5
WT216005	Ear speculum, acc. to Farrior, round, straight, size 8.5
WT216006	Ear speculum, acc. to Farrior, round, straight, size 9.5
WT216007	Ear speculum, acc. to Farrior, round, straight, size 10



Ear speculum, acc. to Farrior
stainless steel, black, round, regular end,
various inner diameters (mm)

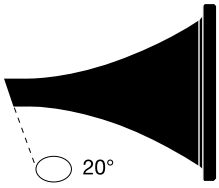
WT216011	Ear speculum, acc. to Farrior, round, black, straight, size 4.5
WT216012	Ear speculum, acc. to Farrior, round, black, straight, size 5.5
WT216013	Ear speculum, acc. to Farrior, round, black, straight, size 6.5
WT216014	Ear speculum, acc. to Farrior, round, black, straight, size 7.5
WT216015	Ear speculum, acc. to Farrior, round, black, straight, size 8.5
WT216016	Ear speculum, acc. to Farrior, round, black, straight, size 9.5
WT216017	Ear speculum, acc. to Farrior, round, black, straight, size 10



Farrior Ear Specula (cont.)

Ear speculum, acc. to Farrior
stainless steel, special dull polish,
oval, 20° oblique end,
various inner diameters (mm)

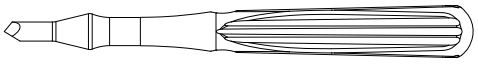
WT216201	Ear speculum, acc. to Farrior, oval, oblique end 20, size 4.2 x 4.6
WT216202	Ear speculum, acc. to Farrior, oval, oblique end 20, size 5.2 x 5.8
WT216203	Ear speculum, acc. to Farrior, oval, oblique end 20, size 5.9 x 6.8
WT216204	Ear speculum, acc. to Farrior, oval, oblique end 20, size 7.0 x 8.0
WT216205	Ear speculum, acc. to Farrior, oval, oblique end 20, size 7.9 x 9.2
WT216206	Ear speculum, acc. to Farrior, oval, oblique end 20, size 8.8 x 10.1
WT216207	Ear speculum, acc. to Farrior, oval, oblique end 20, size 9.5 x 10.8



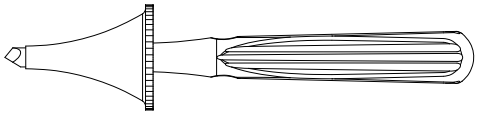
Trocar

Trocar

WT519060	Trocar, Russia type, without speculum, size 6.2



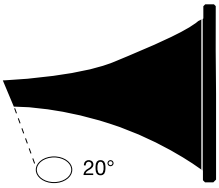
WT519065	Trocar, Russia type, Set



Farrior Ear Specula (cont.)

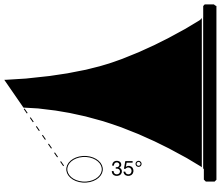
Ear speculum, acc. to Farrior
stainless steel, special dull polish, black, oval, 20° oblique end, various inner diameters (mm)

WT216211	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 4.2 x 4.6
WT216212	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 5.2 x 5.8
WT216213	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 5.9 x 6.8
WT216214	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 7.0 x 8.0
WT216215	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 7.9 x 9.2
WT216216	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 8.8 x 10.1
WT216217	Ear speculum, acc. to Farrior, oval, black, oblique end 20, size 9.5 x 10



Ear speculum, acc. to Farrior
stainless steel, special dull polish, oval, 35° oblique end, various inner diameters (mm)

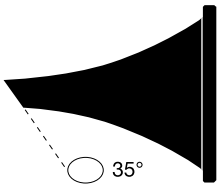
WT216401	Ear speculum, acc. to Farrior, oval, oblique end 35, size 4.2 x 4.6
WT216402	Ear speculum, acc. to Farrior, oval, oblique end 35, size 5.2 x 5.8
WT216403	Ear speculum, acc. to Farrior, oval, oblique end 35, size 5.9 x 6.8
WT216404	Ear speculum, acc. to Farrior, oval, oblique end 35, size 7.0 x 8.0
WT216405	Ear speculum, acc. to Farrior, oval, oblique end 35, size 7.9 x 9.2
WT216406	Ear speculum, acc. to Farrior, oval, oblique end 35, size 8.8 x 10.1
WT216407	Ear speculum, acc. to Farrior, oval, oblique end 35, size 9.5 x 10.8



Farrior Ear Specula (cont.)

Ear speculum, acc. to Farrior
stainless steel, black, oval, 35° oblique end, various inner diameters (mm)

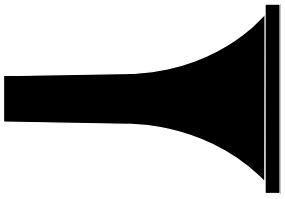
WT216411	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 4.2 x 4.6
WT216412	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 5.2 x 5.8
WT216413	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 5.9 x 6.8
WT216414	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 7.0 x 8.0
WT216415	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 7.9 x 9.2
WT216416	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 8.8 x 10.1
WT216417	Ear speculum, acc. to Farrior, oval, black oblique end 35, size 9.5 x 10.8



Zoellner Ear Specula

Ear speculum, acc. to Zoellner

WT215001	Ear speculum, acc. to Zoellner, black, oval, size 4.4 x 5.4
WT215002	Ear speculum, acc. to Zoellner, black, oval, size 5.5 x 6.5
WT215003	Ear speculum, acc. to Zoellner, black, oval, size 6.6 x 7.5
WT215004	Ear speculum, acc. to Zoellner, black, oval, size 7.6 x 8.7
WT215005	Ear speculum, acc. to Zoellner, black, oval, size 8.7 x 9.3
WT215006	Ear speculum, acc. to Zoellner, black, oval, size 9.4 x 10.7



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Flexible Tension Arm



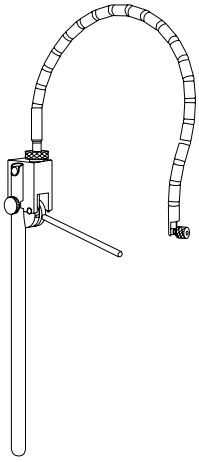
- Complete with holding rod for attachment to operating table
- With optional rotation clamp
- Optional ear speculum clamp and ear telescope clamp

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Flexible Tension Arm

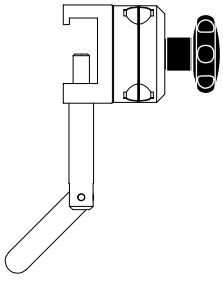
Articulated arm
complete with holding rod,
for attachment to operating table

WT218800 Articulated arm, flexible, with holding rod



Clamp socket
for articulated arm WT218800,
attachable to operating table

WT218801 Clamp socket, for articulated arm WT218800



Holding rod
spare, for articulated arm WT218800

WT218812 Holding rod, for articulated arm WT218800

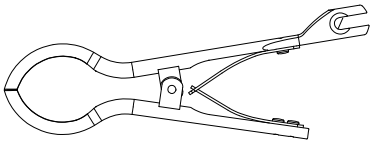


WT218809 Spare screw, for arm system

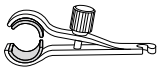


Adapters for Flexible Tension Arm

WT218802 Adapter, ear speculum to articulated arm WT218800,
size 120



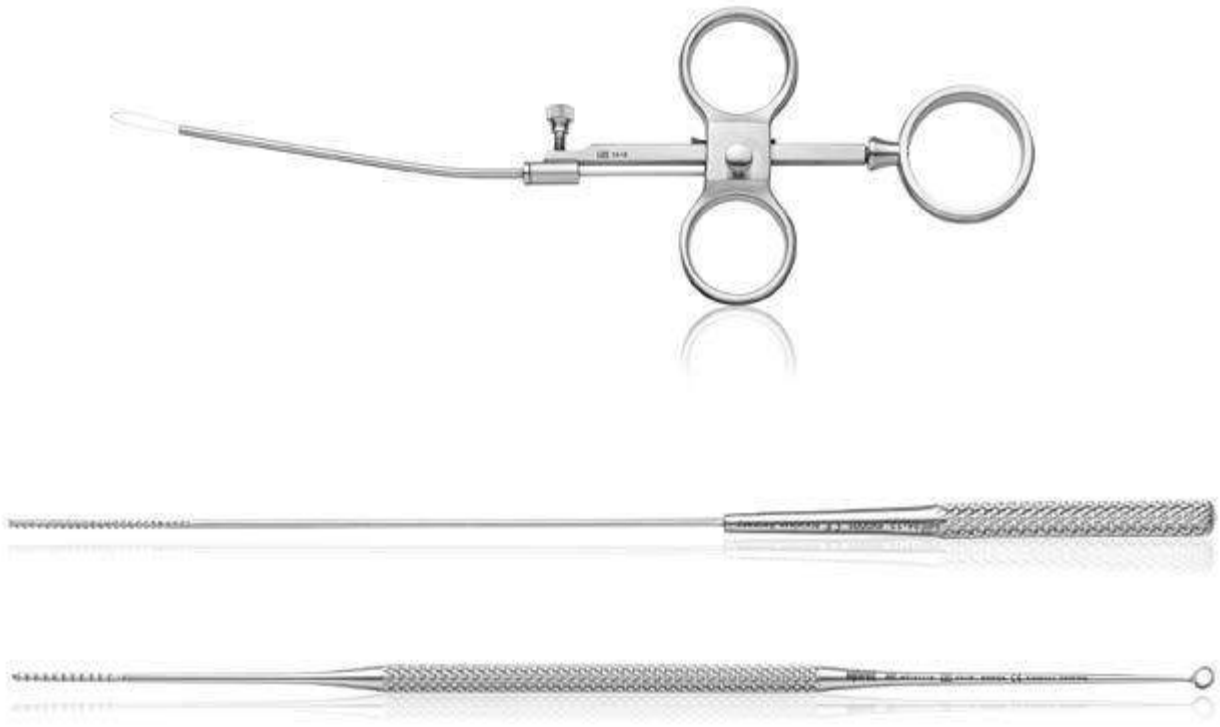
WT218803 Adapter, endoscope to articulated arm WT218800,
size 80



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Cotton Applicators, Ear Snare



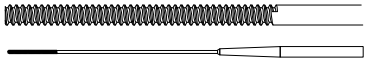
- Cotton applicators:
  serrated, triangular and twisted models,
  standard and very delicate models
- Ear snare:
  angled model,
  snare wires cut and formed

EXPLORENT

Cotton Applicators

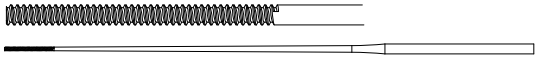
Cotton applicator
stainless steel, twisted end, very delicate, 0.7 mm diameter, various lengths (mm)

WT122411 Cotton applicator, with thread, size 0.7 x 110
WT122415 Cotton applicator, with thread, size 0.7 x 150



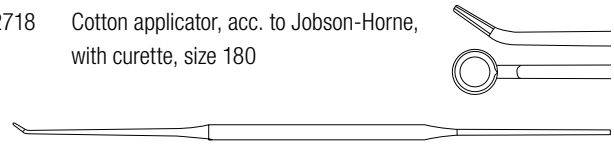
Cotton applicator, acc. to Frohn
stainless steel, twisted end,
various lengths (mm), 0.9 mm diameter,

WT122812 Cotton applicator, serrated, size 0.9 x 120
WT122814 Cotton applicator, serrated, size 0.9 x 140
WT122816 Cotton applicator, serrated, size 0.9 x 160



Cotton applicator, acc. to Jobson-Horne
with curette, 18 cm total length

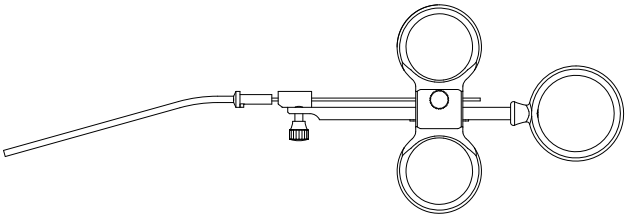
WT122718 Cotton applicator, acc. to Jobson-Horne, with curette, size 180



Ear Snare

Polyp snare, acc. to Krause
18 cm total length

WT137000 Polyp snare, acc. to Krause, size 180



Snare Wire
for polyp snare, shaped, for ear polypus snares,
0.2 mm diameter size

WT137500 Wire, for polyp snare, shaped, size 0.2, 100 pcs. (not shown)
WT137600 Wire, for polyp snare, shaped, size 0.2, 12 pcs. (not shown)

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Ear Probes, Loops, Curettes and Spatula



- Silver and silver-plated probes
- Smooth and serrated ear loops
- Sharp and blunt ear curettes, straight and curved models
- Fine ear spatula and foreign body lever

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Probes

Probe, acc. to Stacke
silver plated, 10 cm length

WT121000 Probe, acc. to Stacke, silver plated, size 100



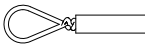
Probe, acc. to Stacke-Frenzel
silver, angled tip, 9 cm length, 1mm diameter

WT121200 Probe, acc. to Stacke-Frenzel, silver, curved, size 90

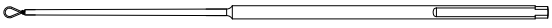


Loops

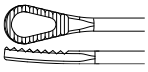
Loop, acc. to Billeau
straight, 16.5 cm total length, various loop sizes (mm)



WT123001 Loop, acc. to Billeau, straight, size 4.0 x 3.0 165
WT123002 Loop, acc. to Billeau, straight, size 6.0 x 3.5 165
WT123003 Loop, acc. to Billeau, straight, size 8.0 x 4.5 165



Ear loop, acc. to Snellen
slight, curved,
serrated, 15 cm total length, various loop sizes (mm)



WT123201 Ear loop, acc. to Snellen, serrated, curved, size 3.0 x 150
WT123202 Ear loop, acc. to Snellen, serrated, curved, size 4.0 x 150
WT123203 Ear loop, acc. to Snellen, serrated, curved, size 4.5 x 150

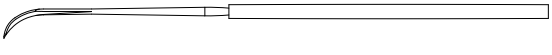


Spatula

Spatula, acc. to Zaufal
16 cm total length, 3 mm width



WT124100 Spatula, acc. to Zaufal, curved, size 160



Curettes

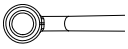
Ear curette, acc. to Shapleigh
slight, curved, serrated,
16.5 cm total length,
various curette widths (mm)



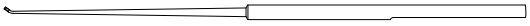
WT123301 Ear curette, acc. to Shapleigh, serrated, curved, size 2.6 x 165
WT123302 Ear curette, acc. to Shapleigh, serrated, curved, size 3.0 x 165



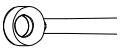
Ear curette, acc. to Buck
blunt, 15 cm total length,
various curette sizes (mm)



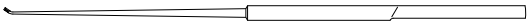
WT125020 Ear curette, acc. to Buck, blunt, size 00, 1.6 x 150
WT125010 Ear curette, acc. to Buck, blunt, size 0, 2.0 x 150
WT125001 Ear curette, acc. to Buck, blunt, size 1, 2.8 x 150
WT125002 Ear curette, acc. to Buck, blunt, size 2, 3.2 x 150
WT125003 Ear curette, acc. to Buck, blunt, size 3, 3.5 x 150



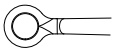
Ear curette, acc. to Buck
sharp, 15 cm total length,
various curette sizes (mm)



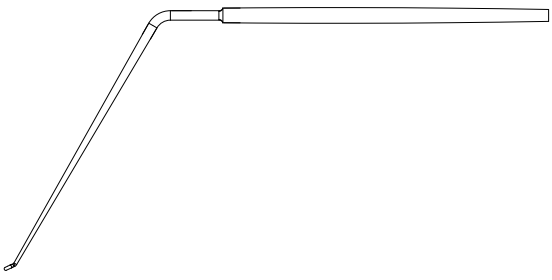
WT125120 Ear curette, acc. to Buck, sharp, size 00, 1.6 x 150
WT125110 Ear curette, acc. to Buck, sharp, size 0, 2.0 x 150
WT125101 Ear curette, acc. to Buck, sharp, size 1, 2.8 x 150
WT125102 Ear curette, acc. to Buck, sharp, size 2, 3.2 x 150
WT125103 Ear curette, acc. to Buck, sharp, size 3, 3.5 x 150



Ear curette
angled, blunt, 35° up-curved



WT125300 Ear curette, blunt, angled, up-curved, size 2.5
WT125301 Ear curette, blunt, angled, up-curved, size 2.8
WT125302 Ear curette, blunt, angled, up-curved, size 3.5
WT125303 Ear curette, blunt, angled, up-curved, size 3.8



Ear Hooks

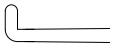


- Standard models
- Double-ended model with hook and spoon

EXPLORENT

Ear Hooks

Ear hook, acc. to Day

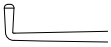


14.5 cm total length, various hook sizes (mm)

WT123401	Ear hook, acc. to Day, size 2.0 x 145
WT123402	Ear hook, acc. to Day, size 3.0 x 145



Ear hook, acc. to Lucae



14.5 cm total length, various hook sizes (mm)

WT123501	Ear hook, acc. to Lucae, with ball end, size 2.0 x 145
WT123502	Ear hook, acc. to Lucae, with ball end, size 2.5 x 145
WT123503	Ear hook, acc. to Lucae, with ball end, size 3.5 x 145

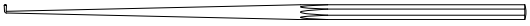


Ear hook, acc. to Wagener



15 cm total length, various hook sizes (mm)

WT123601	Ear hook, acc. to Wagener, size 2.0 x 150
WT123602	Ear hook, acc. to Wagener, size 2.5 x 150
WT123603	Ear hook, acc. to Wagener, size 3.0 x 150
WT123604	Ear hook, acc. to Wagener, size 3.5 x 150
WT123605	Ear hook, acc. to Wagener, size 4.5 x 150



Hook, acc. to Gross



with spoon, 1.5 mm hook, sharp,
13 cm total length, 9 x 4 mm spoon

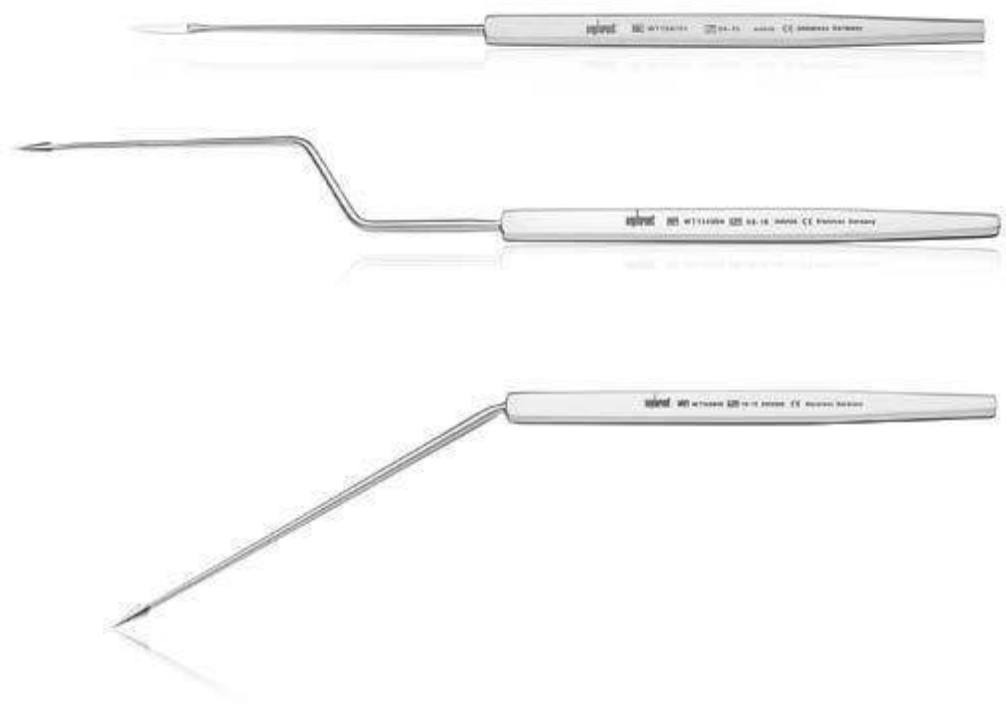
WT123900	Hook, acc. to Gross, with spoon, size 130



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Myringotomy Knives, Tympanum Perforators

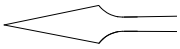


- Straight, angled, curved and bayonet-shaped models
- Perforators with detachable tips
- Up- and downcutting models

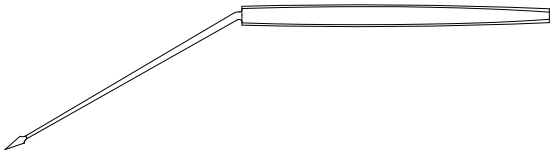
EXPLORENT

Tympanum Perforators

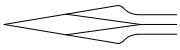
Perforator, acc. to Politzer
angled, for tympanum,
16 cm total length



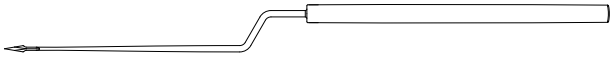
WT133000 Perforator, acc. to Politzer, for tympanum, angled, size 160



Perforator, acc. to Lucae
bayonet, for tympanum,
18.5 cm total length



WT134000 Perforator, acc. to Lucae, for tympanum,
bayonet shaped, size 185



Myringotomy Knives

Knife
for myringotomy, straight,
16.5 cm total length

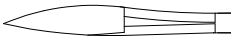


WT133100 Knife, for myringotomy, straight, size 165

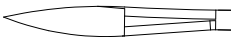


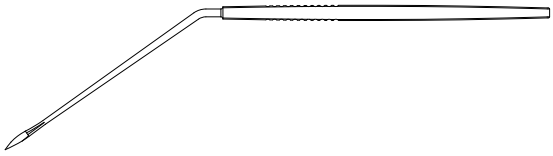
Knife, acc. to Royce
angled, 16 cm total length

WT133400 Knife, acc. to Royce,
upwards cutting, curved, size 160



WT133500 Knife, acc. to Royce,
downward cutting, curved, size 160





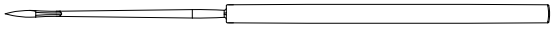
Ear knife, acc. to Politzer
16 cm total length

WT134701 Ear knife, acc. to Politzer,
straight, size 160

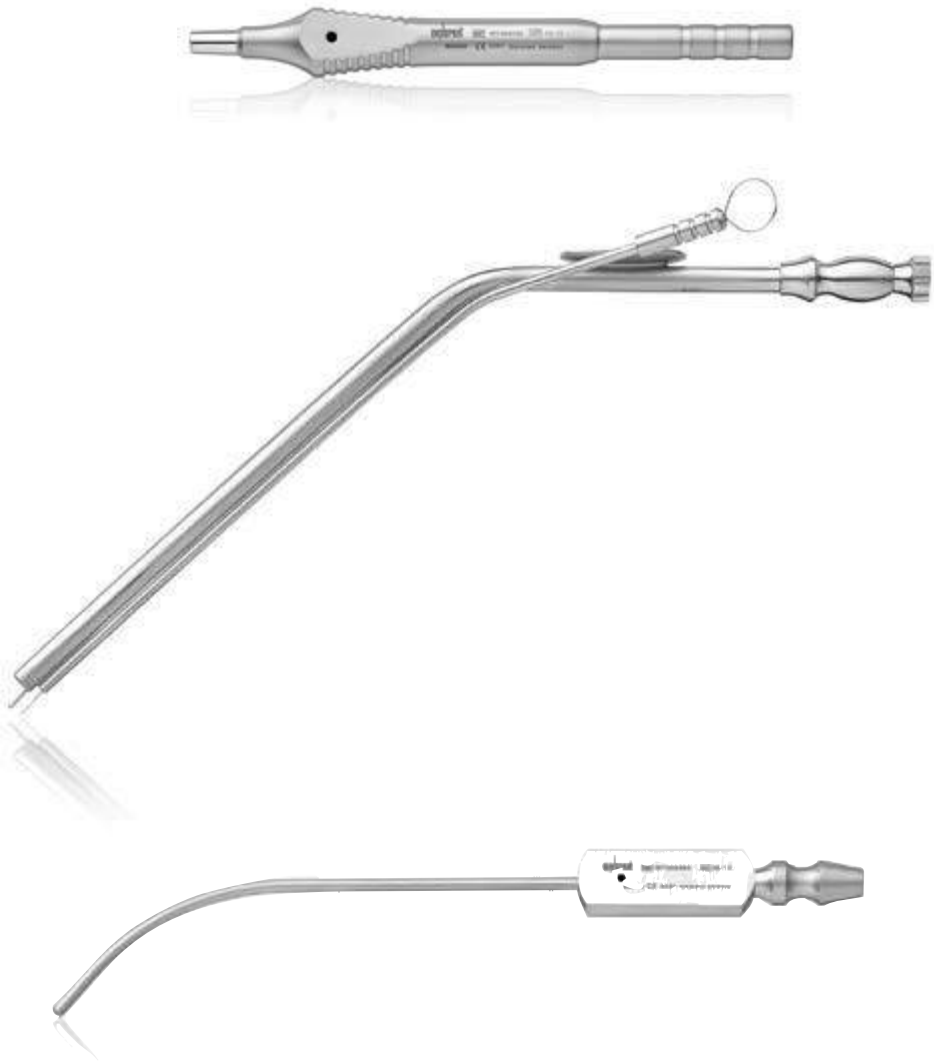


WT134702 Ear knife, acc. to Politzer,
curved, size 160





Suction Tubes



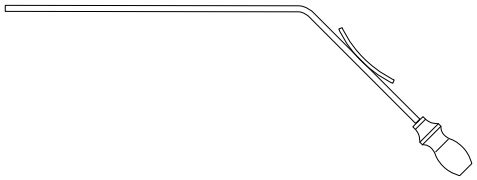
- Standard and micro suction models
- Angled and curved models
- Stainless steel and silver models
- Different adapters

EXPLORENT

Suction Tubes

Suction tube, acc. to Verhoeven
9 cm working length, various diameters

WT135200 Suction tube, acc. to Verhoeven, straight, size 2.0 x 90
WT135300 Suction tube, acc. to Verhoeven, straight, size 1.5 x 90



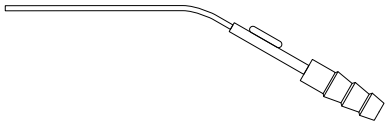
Suction tube, acc. to Nijmegen
7.5 cm working length, various diameters

WT136015 Suction tube, acc. to Nijmengen, size 1.5 x 75
WT136020 Suction tube, acc. to Nijmengen, size 2.0 x 75
WT136025 Suction tube, acc. to Nijmengen, size 2.5 x 75
WT136030 Suction tube, acc. to Nijmengen, size 3.0 x 75
WT136040 Suction tube, acc. to Nijmengen, size 4.0 x 75



Suction tube, acc. to Barnes, Luer connection
5 cm working length, with cut-off, various diameters

WT136615 Suction tube, acc. to Barnes, Luer connection, size 1.5 x 50
WT136617 Suction tube, acc. to Barnes, Luer connection, size 1.7 x 50
WT136620 Suction tube, acc. to Barnes, Luer connection, size 2.0 x 50



Suction Tubes (cont.)

Suction tube, curved, with Luer conus
curved, cylindric, Luer,
10.5 cm working length, various diameters

WT136510 Suction tube, curved, with Luer conus, size 1.0 x 105
WT136515 Suction tube, curved, with Luer conus, size 1.5 x 105
WT136520 Suction tube, curved, with Luer conus, size 2.0 x 105
WT136530 Suction tube, curved, with Luer conus, size 3.0 x 105
WT136540 Suction tube, curved, with Luer conus, size 4.0 x 105
WT136550 Suction tube, curved, with Luer conus, size 5.0 x 105



Suction tube, acc. to House
7 cm working length, 10 cm total, various diameters

WT266106 Suction tube, acc. to House, with Luer-lock, curved, size 0.6 x 70
WT266108 Suction tube, acc. to House, with Luer-lock, curved, size 0.8 x 70
WT266110 Suction tube, acc. to House, with Luer-lock, curved, size 1.0 x 70
WT266112 Suction tube, acc. to House, with Luer-lock, curved, size 1.2 x 70
WT266115 Suction tube, acc. to House, with Luer-lock, curved, size 1.5 x 70
WT266118 Suction tube, acc. to House, with Luer-lock, curved, size 1.8 x 70
WT266120 Suction tube, acc. to House, with Luer-lock, curved, size 2.0 x 70
WT266122 Suction tube, acc. to House, with Luer-lock, curved, size 2.2 x 70
WT266125 Suction tube, acc. to House, with Luer-lock, curved, size 2.5 x 70
WT266130 Suction tube, acc. to House, with Luer-lock, curved, size 3.0 x 70



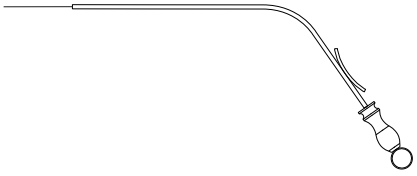
Mandrin
for House suction tubes (not shown)

WT000812 Mandrin, for suction tubes acc. to House, size 0.6
WT000815 Mandrin, for suction tubes acc. to House, size 1.2

Suction Tubes (cont.)

Suction tube, acc. to Baron
7.5 cm working length, 14 cm total, various diameters

WT134803	Suction tube, acc. to Baron, with cut-off, size 1.0 x 75
WT134805	Suction tube, acc. to Baron, with cut-off, size 1.7 x 75
WT134807	Suction tube, acc. to Baron, with cut-off, size 2.3 x 75



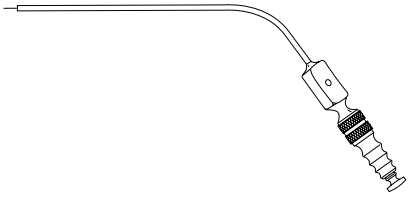
Mandrin
for Baron suction tubes (not shown)

WT000801	Mandrin, for Suction tubes acc. to Baron, size 1.3
WT000802	Mandrin, for Suction tubes acc. to Baron, size 1.7
WT000803	Mandrin, for Suction tubes acc. to Baron, size 2.3



Suction tube, acc. to Frazier
9 cm working length, various diameters

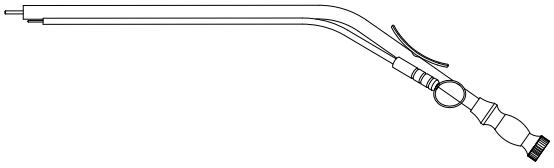
WT210006	Suction tube, acc. to Frazier, with cut-off, size 2.0 x 90
WT210008	Suction tube, acc. to Frazier, with cut-off, size 2.7 x 90
WT210010	Suction tube, acc. to Frazier, with cut-off, size 3.3 x 90
WT210012	Suction tube, acc. to Frazier, with cut-off, size 4.0 x 90
WT210015	Suction tube, acc. to Frazier, with cut-off, size 5.0 x 90



Suction Tubes (cont.)

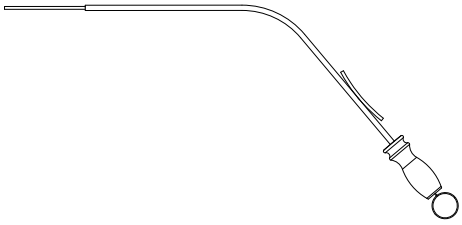
Suction/irrigation tube, acc. to House
9 cm working length, 16 cm total length

WT268501	Suction/irrigation tube, acc. to House, size 4.5 x 2.0, 90
WT268502	Suction/irrigation tube, acc. to House, size 3.0 x 2.0, 90
WT268503	Suction/irrigation tube, acc. to House, size 2.5 x 2.0, 90
WT268504	Suction/irrigation tube, acc. to House, size 1.8 x 1.8, 90
WT268505	Suction/irrigation tube, acc. to House, size 1.5 x 1.5, 90
WT268506	Suction/irrigation tube, acc. to House, size 1.2 x 0.9, 90
WT268507	Suction/irrigation tube, acc. to House, size 0.9 x 0.7, 90



Suction tube, acc. to Schuhknecht
Luer, 7 cm working length, tapered tip, with wire,
14 cm total length, diameters (mm)

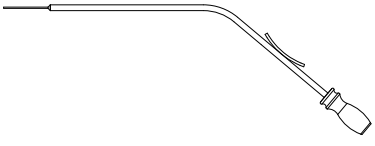
WT269020	Suction tube, acc. to Schuhknecht, with Luer cone size 0.9 x 70
WT269024	Suction tube, acc. to Schuhknecht, with Luer cone size 0.6 x 70



Mandrin
for Schuhknecht suction tubes (not shown)

WT000806	Mandrin, for suction tubes acc. to Schuhknecht, size 20G
WT000807	Mandrin, for suction tubes acc. to Schuhknecht, size 24G

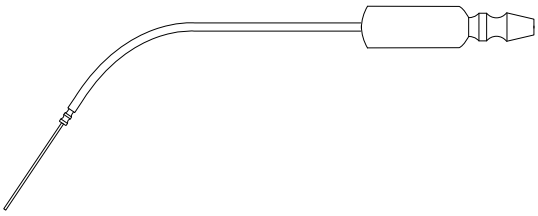
WT269026	Suction tube, acc. to Schuhknecht, size 0.5 x 60



Zoellner Suction Tubes

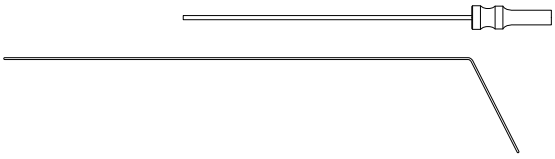
Suction tube, acc. to Zoellner
Luer, 2.4 mm diameter, 14 cm working length

WT268000 Suction tube, acc. to Zoellner, size 2.4 x 140, with tip WT268107



Suction tube, tip, acc. to Zoellner
micro suction cannula to slip on Zoellner suction tube, with wire, various diameters (mm)

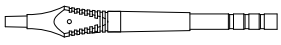
WT268105 Suction tube, tip, acc. to Zoellner, size 0.5
WT268106 Suction tube, tip, acc. to Zoellner, size 0.6
WT268107 Suction tube, tip, acc. to Zoellner, size 0.7
WT268108 Suction tube, tip, acc. to Zoellner, size 0.8
WT268109 Suction tube, tip, acc. to Zoellner, size 0.9
WT268112 Suction tube, tip, acc. to Zoellner, size 1.2



Adapters for Suction Tubes

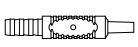
Adapter, acc. to Wullstein
stainless steel, Luer-cone, 11 cm total length

WT265002 Adapter, acc. to Wullstein, for suction tubes, Luer cone



Adapter, acc. to House
Luer-cone, 5.2 cm total length

WT265502 Adapter, acc. to House, with Luer cone, size 52



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Elevators, Raspatories, Sharp Curettes



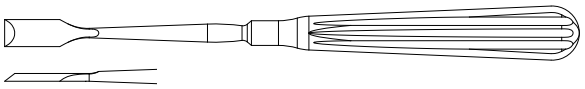
- Single- and double-ended models
- Large and delicate models
- Oval curettes

EXPLORENT

Single-Ended Elevators

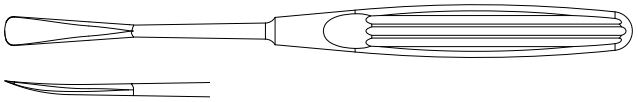
Elevator, acc. to Adson
straight, 17 cm total length, 8 mm width

WT205500 Elevator, acc. to Adson, straight, size 8.0 x 170



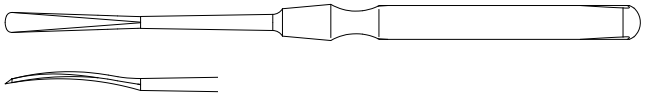
Raspatory, acc. to Jansen
19.5 cm total length, various widths (mm)

WT205609 Raspatory, acc. to Jansen, size 9.0 x 195
WT205614 Raspatory, acc. to Jansen, size 14 x 195



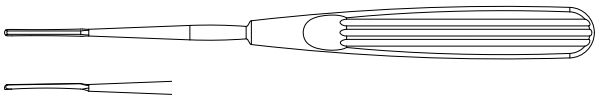
Raspatory, acc. to Eicken
19.5 cm total length, 6 mm width

WT205706 Raspatory, acc. to Eicken, size 6.0 x 195



Raspatory, acc. to Lempert (Joseph)
17.5 cm total length, various widths (mm)

WT208001 Raspatory, acc. to Lempert (Joseph), slightly curved, size 2.0 x 175
WT208002 Raspatory, acc. to Lempert (Joseph), slightly curved, size 3.0 x 175
WT208003 Raspatory, acc. to Lempert (Joseph), slightly curved, size 4.0 x 175
WT208004 Raspatory, acc. to Lempert (Joseph), slightly curved, size 5.0 x 175



Raspatory, acc. to Wullstein
16.5 cm total length

WT261500 Raspatory, acc. to Wullstein, delicate, curved, size 165
WT261501 Raspatory, acc. to Wullstein, large, curved, size 165



Single-Ended Elevators (2)

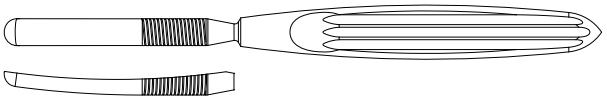
Raspatory, acc. to Shambough-Derlacki
16.5 cm total length, 3 mm width

WT261600 Raspatory, acc. to Shambough-Derlacki, Duckbill shape, size 3.0 x 165



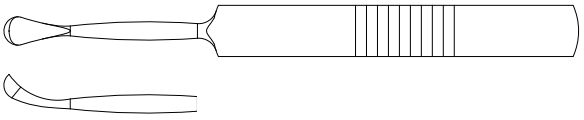
Raspatory, acc. to Plester
18 cm total length, 8 mm width

WT261700 Raspatory, acc. to Plester, size 8.0 x 180



Raspatory, acc. to Fisch
17 cm total length, 10 mm width

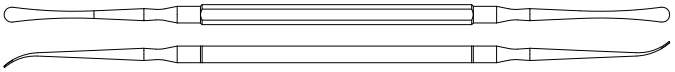
WT261800 Raspatory, acc. to Fisch, size 10 x 170



Double-Ended Elevators

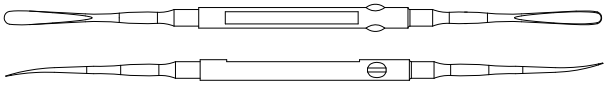
Elevator, acc. to Freer
double-ended, sharp/blunt, 20 cm total length, USA model, 4.5 mm width

WT315000 Elevator, acc. to Freer, double-ended, american type, size 200



Elevator, acc. to Freer
double-ended, sharp/blunt, 18 cm total length 4.7 mm width

WT315100 Elevator, acc. to Freer, double-ended, sharp/blunt, size 180



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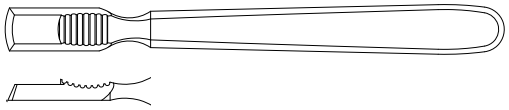
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Elevators, Raspatories, Sharp Curettes (cont.)

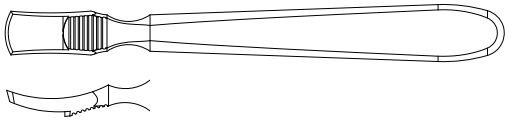
Rasparatories

Raspatory, acc. to Farabeuf
various widths and total lengths (mm)

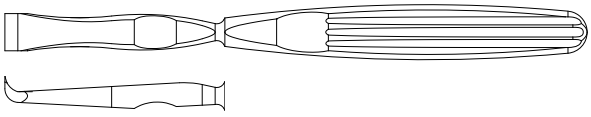
WT205000 Raspatory, acc. to Farabeuf, straight, size 13 x 150



WT205100 Raspatory, acc. to Farabeuf, curved, size 13 x 150



WT205111 Raspatory, acc. to Farabeuf, curved, size 11 x 175

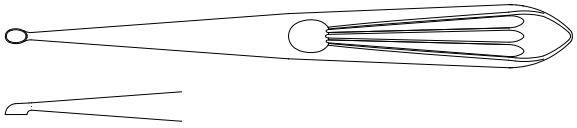


Sharp Curettes

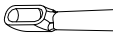
Curette, acc. to Spratt
17 cm total length, various curette sizes (mm)



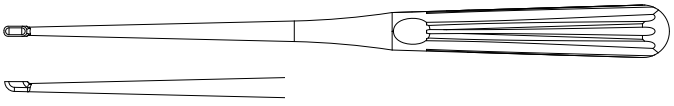
WT242000 Curette, acc. to Spratt, oval, size 0, 3.5 x 5.5 170
WT242001 Curette, acc. to Spratt, oval, size 1, 4.5 x 7.0 170
WT242002 Curette, acc. to Spratt, oval, size 2, 5.5 x 8.0 170



Curette, acc. to Lempert
oval, various curette sizes, 21 cm total length,



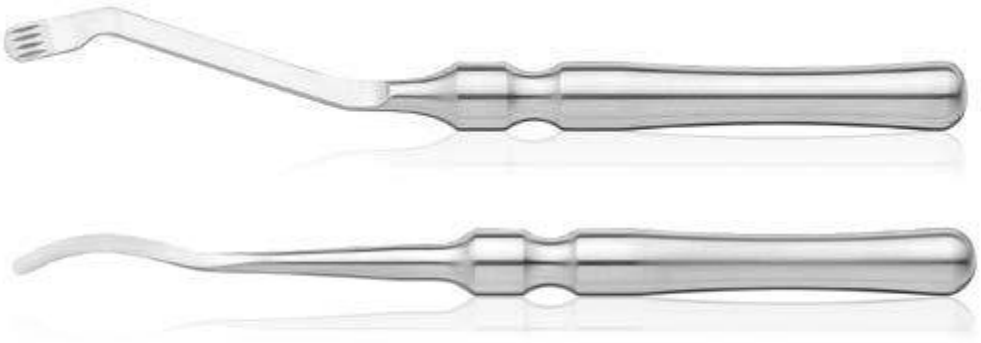
WT243010 Curette, acc. to Lempert, oval, size 0, 3.9 x 6.3 210
WT243020 Curette, acc. to Lempert, oval, size 2/0, 3.5 x 5.3 210
WT243030 Curette, acc. to Lempert, oval, size 3/0, 2.9 x 4.3 210
WT243040 Curette, acc. to Lempert, oval, size 4/0, 2.0 x 3.5 210
WT243050 Curette, acc. to Lempert, oval, size 5/0, 2.0 x 2.9 210



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Minimally Invasive Otoplasty (MIO)



In recent years, the minimally invasive otoplasty (MIO) technique has met with increasing interest throughout the world; it is now well established as an elegant alternative to open otoplasty techniques.

- Right and left ear scoring instruments, allowing biomechanical shaping of the anthelix cartilage, thus weakening its restoring force.
- Right and left ear elevators for tunneling the perichondrium at the anthelix front
- For minimally invasive and open otoplasty

EXPLORENT

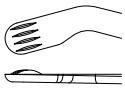
Benedict Anthelix Set for Minimally Invasive and Open Otoplasty

These instruments were specially designed for the minimally invasive otoplasty, but they can be used in open otoplasty as well.
The elevator serves for tunneling the perichondrium at the anthelix front, the scoring instrument for biomechanical shaping of the anthelix, thus weakening its cartilage restoring force.
During most otoplasties the cartilage is usually being scored with a scalpel knife. In comparison with the scalpel method the Benedict type scoring instrument allows more precise and defined scoring of the cartilage. Synchronous scoring is achived by four identical microblades, arranged in parallel. The depth of scoring is thereby exactly defined; thus helping to prevent visible cutting edges even with thin cartilage, since the cartilage is only scored but not completely severed. The slender and curved design of the instruments corresponds to the anthelix shape

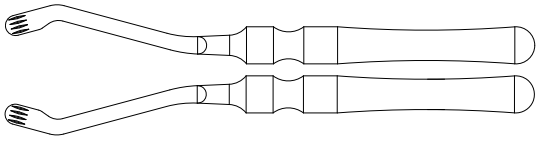
Reference:
Dr. M. Benedict, Ettlingen/Karlsruhe, Germany
M. Benedict, K.-U. Pirwitz: Minimal-invasive Otoplastik.
HNO 2005, 53:230-237

Benedict Scoring Instruments

Scoring instrument, acc. to Benedict
for otoplasty, set
Delivery includes: WT290001, WT290002

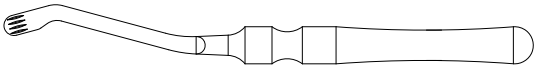


WT290000 Scoring instrument, acc. to Benedict, for otoplasty, set

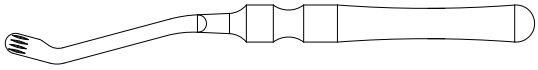


Scoring instrument, acc. to Benedict
4 blades, 6 mm width, 15.7 cm total length

WT290001 Scoring instrument, acc. to Benedict, right, four-blades, size 6.0 x 157



WT290002 Scoring instrument, acc. to Benedict, left, four-blades, size 6.0 x 157

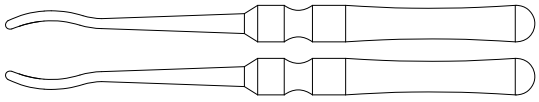


Benedict Elevators

Elevator, acc. to Benedict
for otoplasty, set
Delivery includes: WT290006, WT290007

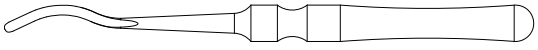


WT290005 Elevator, acc. to Benedict, Set, curved left and right

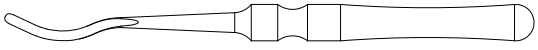


Elevator, acc. to Benedict
working part round curved 3.3 cm,
16 cm total length

WT290006 Elevator, acc. to Benedict, curved right, size 160



WT290007 Elevator, acc. to Benedict, curved left, size 160



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Ear Chisels, Gouges, Mallets



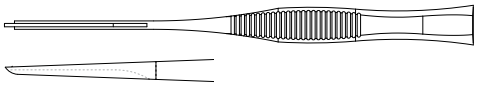
- Chisels and gouges with different widths
- Chisels especially for haemostatis
- Mallets with different weights
- Mallet with replaceable nylon caps

EXPLORENT

Ear Chisels and Gouges

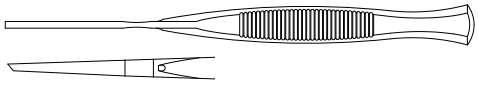
Gouge, acc. to Partsch
14 cm total length, various widths (mm)

WT220002 Gouge, acc. to Partsch (Trautmann), size 2.2 x 140
WT220004 Gouge, acc. to Partsch (Trautmann), size 4.0 x 140
WT220006 Gouge, acc. to Partsch (Trautmann), size 6.0 x 140
WT220008 Gouge, acc. to Partsch (Trautmann), size 8.0 x 140
WT220010 Gouge, acc. to Partsch (Trautmann), size 10 x 140



Chisel, acc. to Partsch (Trautmann)
14 cm total length, various widths (mm)

WT220102 Chisel, acc. to Partsch (Trautmann), size 2.0 x 140
WT220104 Chisel, acc. to Partsch (Trautmann), size 4.0 x 140
WT220106 Chisel, acc. to Partsch (Trautmann), size 6.0 x 140



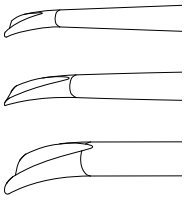
Gouge acc. to Brünings

WT221004 Gouge, acc. to Brünings, size 4.0 x 160
WT221006 Gouge, acc. to Brünings, size 6.0 x 160



Gouge, acc. to Heermann
for partial resection of the bony posterior aural meatus and the lateral attic wall,
curved, 11 cm total length, various widths (mm)

WT264010 Gouge, acc. to Heermann, curved, size 1.0 x 110
WT264015 Gouge, acc. to Heermann, curved, size 1.5 x 110
WT264030 Gouge, acc. to Heermann, curved, size 3.0 x 110

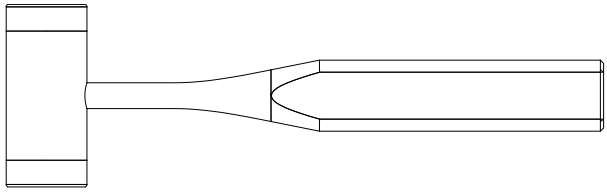




Mallets

Mallet with replaceable polyamide caps
flat/flat face, 212 g,
18 cm length, 25 mm diameter

WT413500 Mallet, metal, light handle, size 180

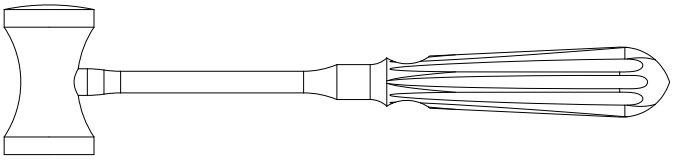


WT413501 Spare mallet heads, polyamide
2 pcs.



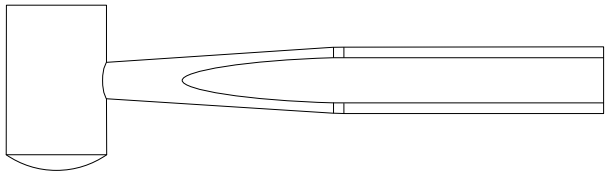
Mallet, acc. to Hajek
round/flat face, solid, 200 g,
20 cm total length, 27 mm diameter

WT230000 Mallet, acc. to Hajek, metal, size 200



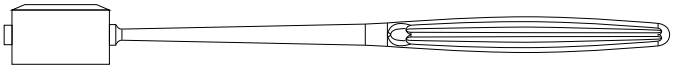
Mallet, acc. to Cottle
round/flat face, 340 g,
with black handle,
18 cm total length, 30 mm diameter

WT413000 Mallet, acc. to Cottle, size 180

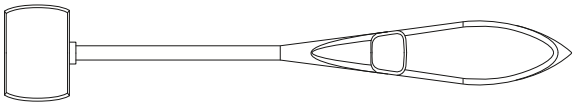


Mallet, acc. to Heermann
various total length (mm)

WT263500 Mallet, acc. to Heermann, large, size 220



WT263501 Mallet, acc. to Heermann, small, size 170



Bone Rongeurs





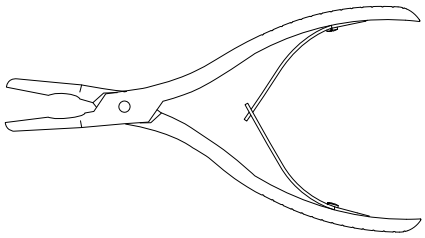
- Straight and curved models with slender and very delicate jaws
- Models with double-action transmission

EXPLORENT

Rongeurs

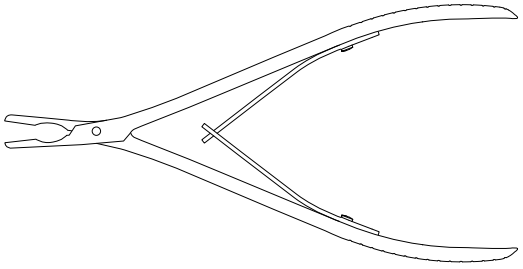
Bone ronguer, acc. to Luer
up-curved, 15 cm total length

WT231000 Bone ronguer, acc. to Luer, curved up, size 150



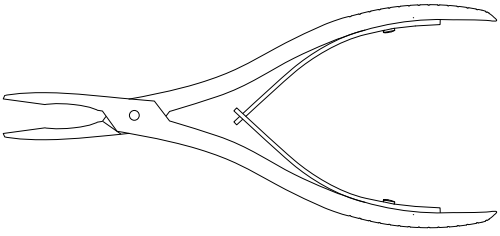
Bone rongeur, acc. to Lempert
straight, slender,
18.5 cm total length

WT232000 Bone rongeur, acc. to Lempert, slender, straight, size 185



Bone rongeur, acc. to Beyer
slight up-curved, long slender jaws,
18 cm total length

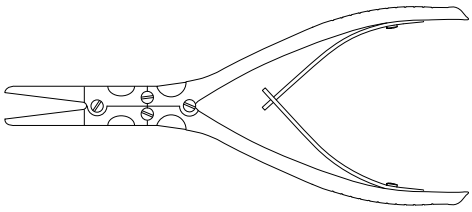
WT233000 Bone rongeur, acc. to Beyer, curved up, size 180



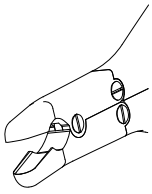
Rongeurs (cont.)

Bone rongeur, acc. to Beyer
slight up-curved, double-action transmission,
18 cm total length

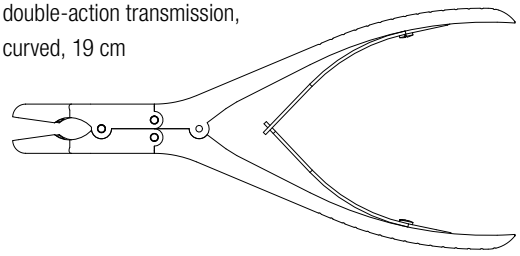
WT234000 Bone rongeur, acc. to Beyer, double-action,



Bone rongeur, acc. to Ruskin
slight up-curved, double-action transmission,
18.5 cm total length

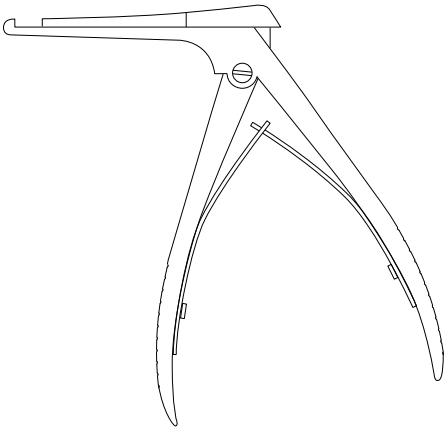


WT234200 Bone rongeur, acc. to Ruskin, double-action,
curved up, size 185,
slight up-curved,
double-action transmission,
curved, 19 cm



Punch forceps, acc. to Kerrison
8 cm working length, various cutting widths (mm)

WT235000 Punch forceps, acc. to Kerrison, size 3.5 x 80
WT235001 Punch forceps, acc. to Kerrison, size 4.0 x 80
WT235002 Punch forceps, acc. to Kerrison, size 4.5 x 80
WT235003 Punch forceps, acc. to Kerrison, size 5.0 x 80



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Atraumatic, Dressing and Tissue Forceps



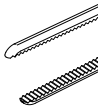
- Models with teeth, serrated and atraumatic jaws
- Slender and very delicate models, Jeweler micro forceps
- Ossicle forceps with fixation screw
- Slender and very delicate tampon forceps

EXPLORENT

Dressing and Tissue Forceps

Thumb forceps, acc. to Semken
serrated, delicate, straight, various total lenghths (mm)

WT208612 Thumb forceps, acc. to Semken, delicate, size 125
WT208615 Thumb forceps, acc. to Semken, straight, size 150





Thumb forceps, for dissection, acc. to Semken
1 x 2 teeth, delicate, straight, various total lenghts (mm)

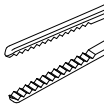
WT208712 Thumb forceps, for dissection, acc. to Semken, delicate, size 125
WT208715 Thumb forceps, for dissection, acc. to Semken, straight, size 150





Thumb forceps, acc. to McIndoe
serrated, straight, 15 cm total length

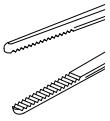
WT208915 Thumb forceps, acc. to McIndoe, size 150

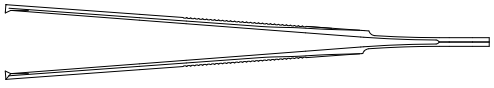




Thumb forceps
serrated, straight, 14.5 cm total length

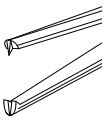
WT209014 Thumb forceps, straight, size 145

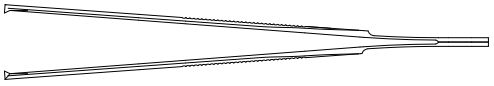




Thumb forceps, for dissection
1 x 2 teeth, straight,
14.5 cm length

WT209114 Thumb forceps, for dissection, straight, size 145

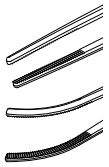




Dressing and Tissue Forceps (cont.)

Thumb forceps, acc. to Graefe
delicate, serrated, 0.7 mm, 10 cm total length

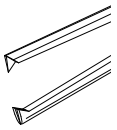
WT209210 Thumb forceps, acc. to Graefe, straight, size 100
WT209220 Thumb forceps, acc. to Graefe, curved, size 0.7 x 100





Thumb forceps, for dissection, acc. to Graefe,
delicate, 1 x 2 teeth, straight, 0.7 mm,
10 cm total length

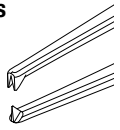
WT209310 Thumb forceps, for dissection, acc. to Graefe, straight, size 100

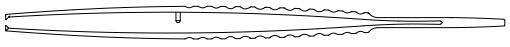




Thumb forceps, for dissection, acc. to Gillies
1 x 2 teeth, serrated, 15 cm

WT209415 Thumb forceps, for dissection, acc. to Gillies, size 150

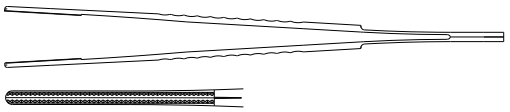




Atraumatic, Dressing and Tissue Forceps

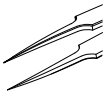
Thumb forceps, atraumatic, acc. to DeBakey
15 cm length, various widths (mm)

WT209516 Thumb forceps, atraumatic, acc. to DeBakey straight, size 1.5 x 150
WT209616 Thumb forceps, atraumatic, acc. to DeBakey straight, size 2.0 x 150



Thumb forceps
pointed, straight, 11 cm length

WT209711 Thumb forceps, delicate, pointed, straight, size 110





Atraumatic, Dressing and Tissue Forceps (cont.)

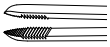
Atraumatic, Dressing and Tissue Forceps (2)

Thumb forceps, for ossicles, acc. to Derlacki
ossicle holding, 12.5 cm length



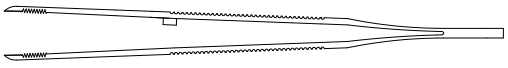
WT272000 Thumb forceps, for ossicles, acc. to Derlacki, with screw, size 125

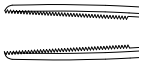




Thumb forceps, atraumatic, acc. to Helms
pointed, atraumatic, slender tip shape, 15 cm total length

WT272200 Thumb forceps, atraumatic, acc. to Helms, pointed, size 150





Thumb forceps, acc. to Adson
serrated, delicate, 12 cm total length

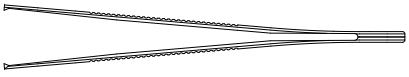
WT425112 Thumb forceps, acc. to Adson, size 120





Thumb forceps, for dissection, acc. to Adson
1 x 2 teeth, delicate, 12 cm total length

WT425212 Thumb forceps, for dissection, acc. to Adson, size 120

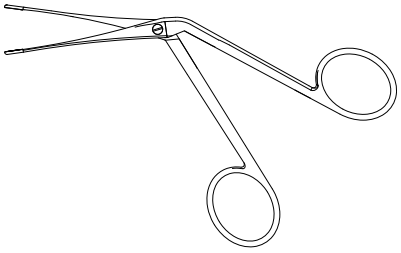


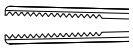
Dressing Forceps

Ear forceps, acc. to Hartmann
6 cm working length



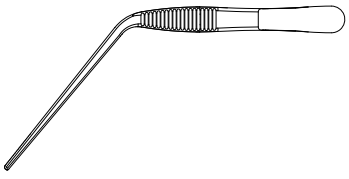
WT131000 Ear forceps, acc. to Hartmann, slender, size 6

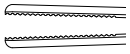




Thumb forceps, acc. to Troeltsch (Wilde)
delicate, various total lengths (mm)

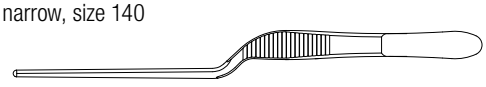
WT132011 Thumb forceps, acc. to Troeltsch (Wilde), size 110
WT132013 Thumb forceps, acc. to Troeltsch (Wilde), size 130





Thumb forceps, acc. to Lucae
serrated, bayonet, 14 cm total length

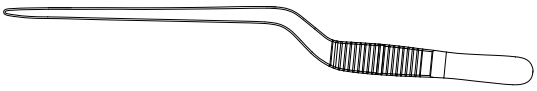
WT132314 Thumb forceps, acc. to Lucae, size 140
WT132324 Thumb forceps, acc. to Lucae, bayonet shaped, narrow, size 140





Thumb forceps, acc. to Lucae
bayonet, 16 cm length

WT132316 Thumb forceps, acc. to Lucae, bayonet shaped, size 160
WT132326 Thumb forceps, acc. to Jansen, bayonet shaped, narrow, size 160



Scissors



- With tungsten carbide cutting edges for extremely high durability
- Serrated blade models
- Delicate dissection models
- Wire cutter with serrated blades

EXPLORENT

Delicate Scissors

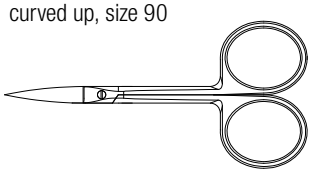
Scissors
sharp/sharp, 9 cm total length

WT277609 Iris scissors, sharp/sharp, straight, size 90



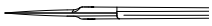
WT277709 Iris scissors, sharp/sharp, curved up, size 90





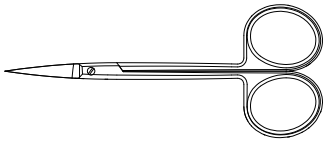
Scissors
sharp/sharp, 10.5 cm total length

WT277510 Iris scissors, sharp/sharp, straight, size 105



WT277610 Iris scissors, sharp/sharp, curved up, size 105





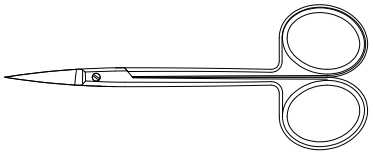
Scissors
sharp/sharp, 11.5 cm total length

WT277712 Iris scissors, sharp/sharp, straight, size 115



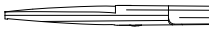
WT277812 Scissors, sharp/sharp, curved up, size 115





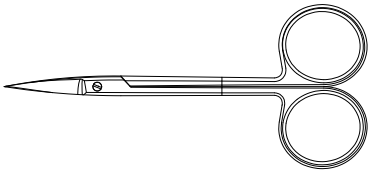
Scissors
sharp/sharp, with tungsten carbide edges, 11.5 cm total length

WT277512 Iris scissors, sharp/sharp, with tungsten carbide, straight, size 115



WT277612 Iris scissors, sharp/sharp, with tungsten carbide, curved up, size 115



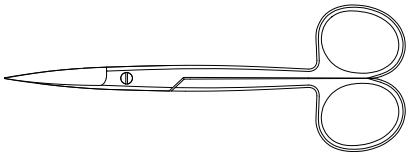


Delicate Scissors (cont.)

Scissors
sharp/sharp, delicate, curved, 12 cm total length

WT183312 Scissors, fine, sharp/sharp, curved up, size 120

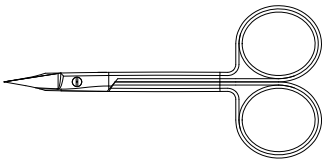




Wire cutting scissors, acc. to Schuhknecht
serrated, 10 cm total length

WT269500 Wire cutting scissors, acc. to Schuhknecht, serrated, size 100



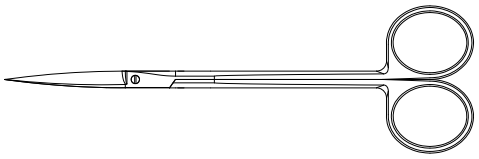


Scissors, acc. to Joseph
sharp/sharp, 14 cm total length

WT276514 Scissors, acc. to Joseph, straight, size 140

WT276614 Scissors, acc. to Joseph, curved up, size 140





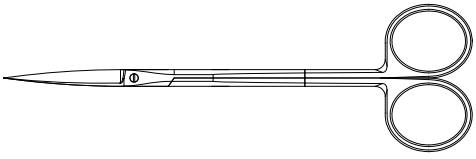
Joseph scissors
sharp/sharp, with tungsten carbide edges, 14 cm total length

WT276714 Scissors, acc. to Joseph, with tungsten carbide, straight, size 140



WT276814 Scissors, acc. to Joseph, with tungsten carbide curved up, size 140





Scissors
(cont.)

Dissection Scissors

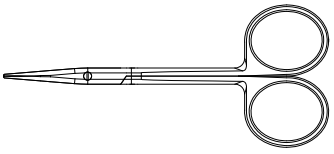
Scissors
blunt/blunt, 10.5 cm length

WT277010 Strabismus scissors, blunt/blunt, straight, size 105



WT277110 Strabismus scissors, blunt/blunt, curved up, size 105





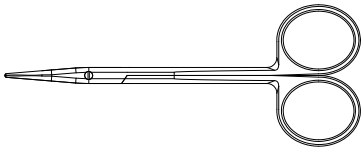
Scissors
blunt/blunt, 11.5 cm total length

WT277212 Strabismus scissors, blunt/blunt, straight, size 115



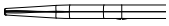
WT277312 Strabismus scissors, blunt/blunt, curved up, size 115





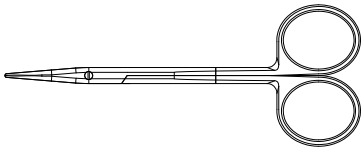
Scissors
blunt/blunt, with tungsten carbide edges, 11.5 cm total length

WT277012 Strabismus scissors, blunt/blunt, with tungsten carbide, straight, size 115



WT277112 Strabismus scissors, blunt/blunt, with tungsten carbide, curved up, size 115



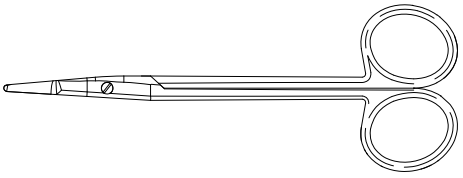


Dissection Scissors (cont.)

Dissection scissors, acc. to Kilner
curved, flat end, 13.5 cm total length, for elevation of the tympanic membrane

WT438714 Dissection scissors, acc. to Kilner, curved up, size 135

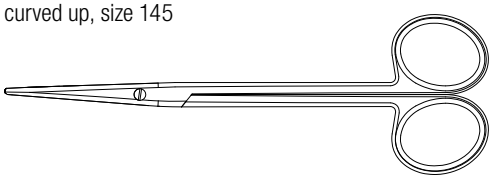




Dissection scissors, acc. to Metzenbaum
14.5 cm total length

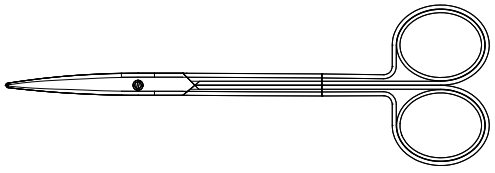
WT542014 Dissection scissors, acc. to Metzenbaum, curved up, size 145





WT542214 Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 145

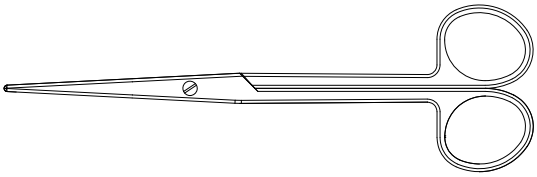




Dissection Scissors (cont.)

Dissection scissors, acc. to Lexer
delicate, various total lengths (mm)

WT212216	Dissection scissors, acc. to Lexer-Fino, straight, size 165	
WT212316	Dissection scissors, acc. to Lexer-Fino, curved up, size 165	
WT212326	Dissection scissors, acc. to Mayo-Lexer, with tungsten carbide, curved up, size 160	



Needle Holder



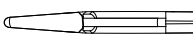
EXPLORENT

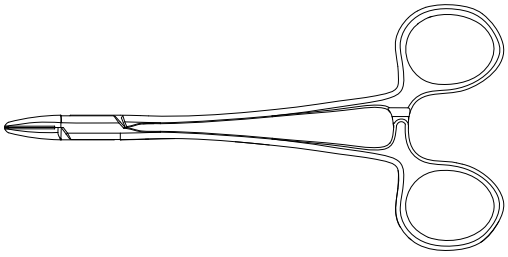
- With tungsten carbide inserts for extremely high durability

Needle Holder

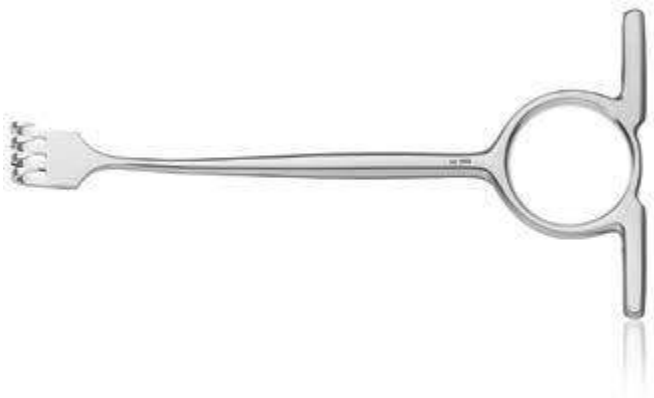
Needle holder, acc. to Crile-Wood
with tungsten carbide inserts, straight,
15 cm total length

WT213015 Needle holder, acc. to Crile-Wood,
with tungsten carbide, size 150





Retractors







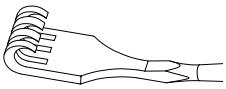
EXPLORENT

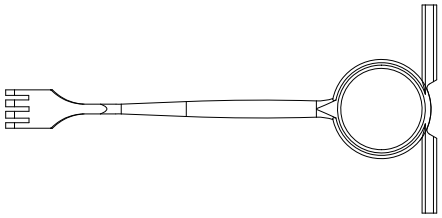
- Models with blunt and sharp prongs, long slender blades
- Self-retaining and adjustable models

Williger Retractor

Retractor, acc. to Williger
4 prongs, sharp, 13 cm total length, 11.8 mm width

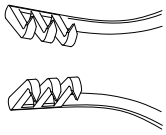
WT201400 Retractor, acc. to Williger, 4 prongs, sharp, size 130



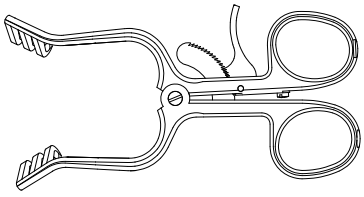


Wullstein Retractors

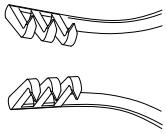
Retractor, acc. to Wullstein
3 x 3 prongs, sharp or blunt type, 11 cm total length

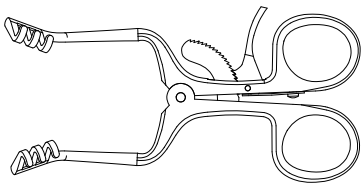


WT200011 Retractor, acc. to Wullstein, sharp, 3 x 3 prongs, size 110
WT200013 Retractor, acc. to Wullstein, sharp, 3 x 3 prongs, size 130
WT200016 Retractor, acc. to Wullstein, sharp, 3 x 3 prongs, size 160



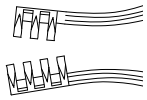
WT200111 Retractor, acc. to Wullstein, blunt, 3 x 3 prongs, size 110
WT200113 Retractor, acc. to Wullstein, blunt, 3 x 3 prongs, size 130
WT200116 Retractor, acc. to Wullstein, blunt, 3 x 3 prongs, size 160



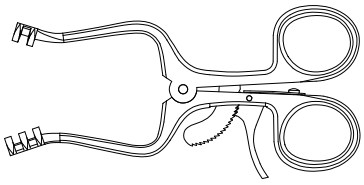


Weitlaner Retractors

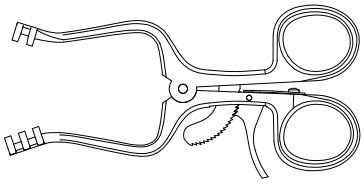
Retractor, acc. to Weitlaner
2 x 3 or 3 x 4 prongs, sharp or blunt type, 11, 13 or 16 cm total length



WT200211 Retractor, acc. to Weitlaner, sharp, 2 x 3 prongs, size 110
WT200213 Retractor, acc. to Weitlaner, sharp, 3 x 4 prongs, size 130
WT200216 Retractor, acc. to Weitlaner, sharp, 3 x 4 prongs, size 160

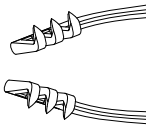


WT200311 Retractor, acc. to Weitlaner, blunt, 2 x 3 prongs, size 110
WT200313 Retractor, acc. to Weitlaner, blunt, 3 x 4 prongs, size 130
WT200316 Retractor, acc. to Weitlaner, blunt, 3 x 4 prongs, size 160

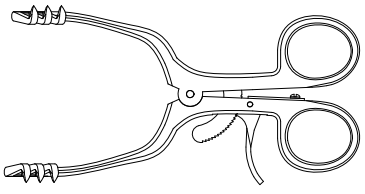


Schuhknecht (Fisch) Retractor

Retractor, acc. to Schuhknecht
2 x 2 prongs, curved, 13 cm total length

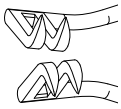


WT200413 Retractor, acc. to Schuhknecht, curved, 2 x 2 prongs, size 130

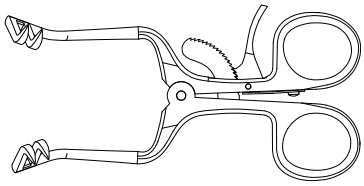


Plester Retractors

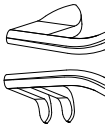
Retractor, acc. to Plester
2 x 2 prongs, sharp, 11 cm total length



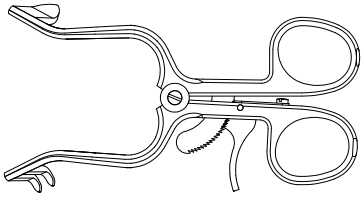
WT201011 Retractor, acc. to Plester, 2 x 2 prongs, size 110



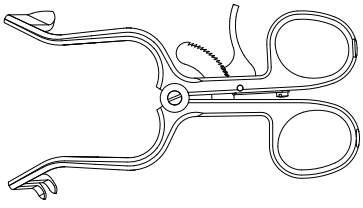
Retractor, acc. to Plester
2 prongs, sharp, solid blade, 11 cm total length



WT201111 Retractor, acc. to Plester, 2 prongs right, size 110

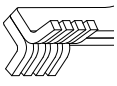


WT201211 Retractor, acc. to Plester, 2 prongs left, size 110

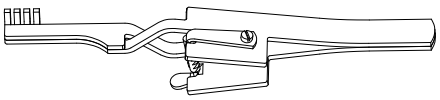


Mini Retractor

Retractor
4 x 4 prongs, blunt, delicate self-retaining, with ratchet crossed, 11 cm total length

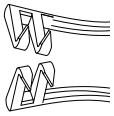


WT201510 Retractor, acc. to Williger, 4 prongs, sharp, size 130

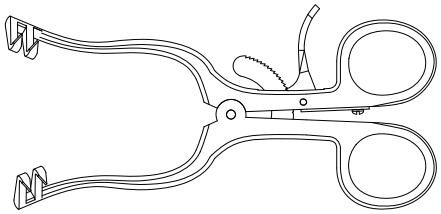


Fisch Retractors

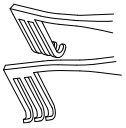
Retractor, acc. to Fisch
2 x 2 prongs, sharp, 13 cm total length



WT201013 Retractor, acc. to Fisch, 2 x 2 prongs, size 130

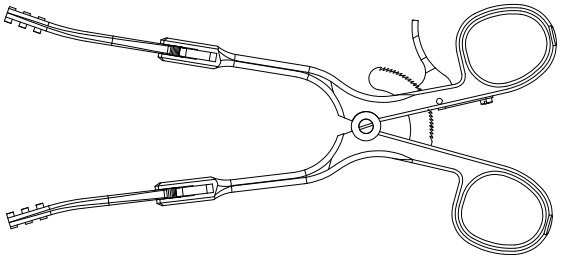


Retractor, acc. to Fisch
3 x 3 prongs, 16.5 cm total length

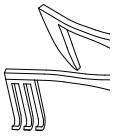


WT202517 Retractor, acc. to Fisch, adjustable jaws, 3 x 3 prongs, size 165

WT202518 Retractor, acc. to Fisch, adjustable jaws, blunt, 3 x 3 prongs, size 165

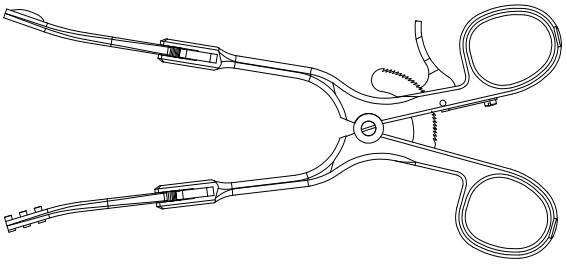


Retractor, acc. to Fisch
3 prongs, blunt, solid blade, 16.5 cm total length

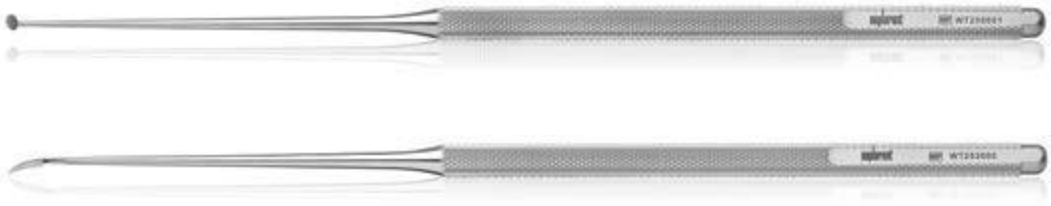


WT202617 Retractor, acc. to Fisch, adjustable jaws, 3 prongs right, blade left, size 165

WT202717 Retractor, acc. to Fisch, adjustable jaws, 3 prongs left, blade right, size 165



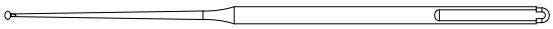
Micro Ear Knives



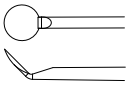
- Round, lancet, flap and sickle knife models
- Straight, curved and angled models

EXPLORENT

Micro Ear Knives



Round knife, acc. to Rosen
45° angled, various diameters (mm)



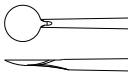
WT250001	Round knife, acc. to Rosen, angled 45, size 2.5
WT250002	Round knife, acc. to Rosen, angled 45, size 2.3
WT250003	Round knife, acc. to Rosen, angled 45, size 2.0
WT250004	Round knife, acc. to Rosen, angled 45, size 1.8
WT250005	Round knife, acc. to Rosen, angled 45, size 1.5
WT250006	Round knife, acc. to Rosen, angled 45, size 1.2
WT250007	Round knife, acc. to Rosen, angled 45, size 1.0

Round knife, acc. to Rosen
90° angled, 2.0 mm diameter



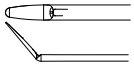
WT000835	Round knife, acc. to Rosen, angled 90, size 2.0

Rosen round knife
straight, various diameters (mm)



WT250011	Round knife, acc. to Rosen, straight, size 2.5
WT250012	Round knife, acc. to Rosen, straight, size 2.3
WT250013	Round knife, acc. to Rosen, straight, size 2.0
WT250017	Round knife, acc. to Rosen, straight, size 1.0

Lancet knife, acc. to Rosen
16.5 cm total length



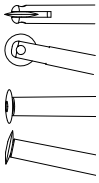
WT251000	Lancet knife, acc. to Rosen, size 165

Incision knife, acc. to Plester
16.5 cm total length



WT251500	Incision knife, acc. to Plester, size 2.5 x 165, 16.5 cm

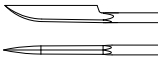
Roller knife, acc. to Schuhknecht
16.5 cm total length, various cutting types, 3.5 mm diameter



WT252000	Roller knife, acc. to Schuhknecht, vertical cutting, size 165
WT252100	Roller knife, acc. to Schuhknecht, horizontal cutting, size 165

Micro Ear Knives (cont.)

Sickle knife, acc. to Wullstein
straight, 16.5 cm total length, 8 mm blade



WT253500	Sickle knife, acc. to Wullstein, straight, size 165

Sickle knife, acc. to Plester
curved, 16.5 cm total length



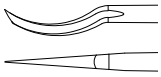
WT253600	Sickle knife, acc. to Plester, straight, size 165

Sickle knife, acc. to Plester
curved, very delicate,
16.5 cm total length, 5 mm blade



WT253700	Sickle knife, acc. to Plester, delicate, size 165

Sickle knife, acc. to Fisch
16 cm total length



WT263005	Sickle knife, acc. to Fisch, size 160



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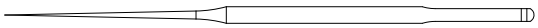
Needles, Picks, Perforators



EXPLORENT

- Straight, curved and angled models
- Delicate perforator models

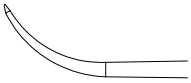
Needles



Needle, acc. to Wullstein
straight, 16.5 cm total length

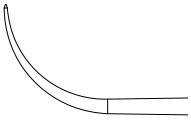
WT254000	Needle, acc. to Wullstein, sharp, straight, size 165
WT254100	Needle, acc. to Wullstein, blunt, straight, size 165

Needle, acc. to Wullstein
slight curved, 16.5 cm total length



WT254200	Needle, acc. to Wullstein, sharp, slightly curved, size 165
WT254300	Needle, acc. to Wullstein, blunt, slightly curved, size 165

Needle, acc. to Wullstein
strong curved, 16.5 cm total length



WT254400	Needle, acc. to Wullstein, sharp, strongly curved, size 165
WT254500	Needle, acc. to Wullstein, blunt, strongly curved, size 165

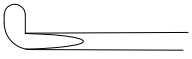
Needle, acc. to Wullstein
very slight curved, 16.5 cm total length



WT254600	Needle, acc. to Wullstein, sharp, very slightly curved, size 165
WT254700	Needle, acc. to Wullstein, blunt, very slightly curved, size 165

Dissector

Dissector, acc. to House-Crabtree
16,3 cm total length

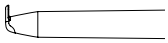


WT550738	Dissector, acc. to House-Crabtree, small tip, angled, size 163

Picks

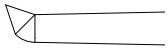


Pick
micro, 90° angled, 16.5 cm total length, various sizes (mm)



WT000836	Pick, micro, angled 90, black, size 0.2 x 150
WT255002	Pick, micro, angled down 90, size 0.2 x 165
WT255004	Pick, micro, angled down 90, size 0.4 x 165
WT255006	Pick, micro, angled down 90, size 0.6 x 165
WT255008	Pick, micro, angled down 90, size 0.8 x 165
WT255010	Pick, micro, angled down 90, size 1.0 x 165

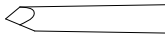
Pick
micro, 45° angled, 16.5 cm total length, various sizes (mm)



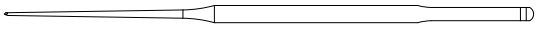
WT256002	Pick, micro, angled down 45, size 0.2 x 165
WT256004	Pick, micro, angled down 45, size 0.4 x 165
WT256006	Pick, micro, angled down 45, size 0.6 x 165
WT256008	Pick, micro, angled down 45, size 0.8 x 165
WT256010	Pick, micro, angled down 45, size 1.0 x 165
WT256015	Pick, micro, angled down 45, size 1.5 x 165

Perforators

Hand perforator, acc. to Larkin
0.8 mm diameter, length 16 cm total length



WT262502	Hand perforator, acc. to Larkin, size 0.8 x 160
WT262501	Perforator, acc. to Larkin, size 0.8



Perforator, acc. to Fisch
Fisch-type, 16 cm,
various diameter (mm)



WT263103	Perforator, acc. to Fisch, size 0.3 x 160
WT263104	Perforator, acc. to Fisch, size 0.4 x 160
WT263105	Perforator, acc. to Fisch, size 0.5 x 160
WT263106	Perforator, acc. to Fisch, size 0.6 x 160



Micro Hooks

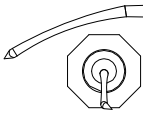


EXPLORENT

- Straight, curved and angled models

Micro Hooks

Hook, acc. to Zenner
double curved, 16.5 cm total length



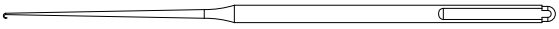
WT256100 Hook, acc. to Zenner, for footplate, double curved, size 165



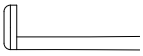
Hook, acc. to Gerlach
16.5 cm total length



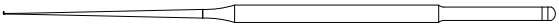
WT256200 Hook, acc. to Gerlach, size 165



Hook, acc. to Plester
0.3 mm diameter, 16.5 cm total length



WT256700 Hook, acc. to Plester, for footplate, size 0.3 x 165



Hook, acc. to Draf
various diameters (mm), various lengths (mm)

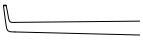
WT339502 Hook, acc. to Draf, angled 90, curved, blunt, size 2.0 x 190



WT258503 Ear hook, acc. to Schuhknecht, angled up, size 0.7 x 160



WT258504 Ear hook, acc. to Schuhknecht, round, angled down, size 0.7 x 160



WT258506 Ear hook, acc. to Schuhknecht, angled up, size 1.0 x 160

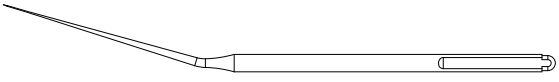




Needle, acc. to Schuhknecht
straight, 16.5 cm total length

WT257000 Needle, acc. to Schuhknecht, sharp, straight, size 165

WT257100 Needle, acc. to Schuhknecht, blunt, straight, size 165



90° Schuhknecht Hooks

Ear hook, acc. to Schuhknecht
90° angled, 16.5 cm total length, various diameters (mm)



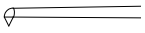
WT258102 Ear hook, acc. to Schuhknecht, curved left, angled 90, size 0.2 x 165

WT258104 Ear hook, acc. to Schuhknecht, curved left, angled 90, size 0.4 x 165

WT258106 Ear hook, acc. to Schuhknecht, curved left, angled 90, size 0.6 x 165

WT258108 Ear hook, acc. to Schuhknecht, curved left, angled 90, size 0.8 x 165

WT258110 Ear hook, acc. to Schuhknecht, curved left, angled 90, size 1.0 x 165



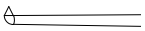
WT258202 Ear hook, acc. to Schuhknecht, curved right, angled 90, size 0.2 x 165

WT258204 Ear hook, acc. to Schuhknecht, curved right, angled 90, size 0.4 x 165

WT258206 Ear hook, acc. to Schuhknecht, curved right, angled 90, size 0.6 x 165

WT258208 Ear hook, acc. to Schuhknecht, curved right, angled 90, size 0.8 x 165

WT258210 Ear hook, acc. to Schuhknecht, curved right, angled 90, size 1.0 x 165



WT258302 Ear hook, acc. to Schuhknecht, curved up, angled 90, size 0.2 x 165

WT258304 Ear hook, acc. to Schuhknecht, curved up, angled 90, size 0.4 x 165

WT258306 Ear hook, acc. to Schuhknecht, curved up, angled 90, size 0.6 x 165

WT258308 Ear hook, acc. to Schuhknecht, curved up, angled 90, size 0.8 x 165

WT258310 Ear hook, acc. to Schuhknecht, curved up, angled 90, size 1.0 x 165



WT258402 Ear hook, acc. to Schuhknecht, curved down, angled 90, size 0.2 x 165

WT258404 Ear hook, acc. to Schuhknecht, curved down, angled 90, size 0.4 x 165

WT258406 Ear hook, acc. to Schuhknecht, curved down, angled 90, size 0.6 x 165

WT258408 Ear hook, acc. to Schuhknecht, curved down, angled 90, size 0.8 x 165

WT258410 Ear hook, acc. to Schuhknecht, curved down, angled 90, size 1.0 x 165

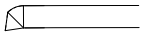
Micro Hooks
(cont.)

45° Schuhknecht Hooks (1)



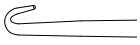
Ear hook, acc. to Schuhknecht
45° angled, 16.5 cm total length, various diameters (mm)

WT259002	Ear hook, acc. to Schuhknecht, curved down, angled 45, size 0.2 x 165
WT259004	Ear hook, acc. to Schuhknecht, curved down, angled 45, size 0.4 x 165
WT259006	Ear hook, acc. to Schuhknecht, curved down, angled 45, size 0.6 x 165
WT259010	Ear hook, acc. to Schuhknecht, curved down, angled 45, size 1.0 x 165



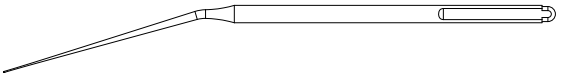
WT259102	Ear hook, acc. to Schuhknecht, curved left, angled 45, size 0.2 x 165
WT259104	Ear hook, acc. to Schuhknecht, curved left, angled 45, size 0.4 x 165
WT259106	Ear hook, acc. to Schuhknecht, curved left, angled 45, size 0.6 x 165
WT259108	Ear hook, acc. to Schuhknecht, curved left, angled 45, size 0.8 x 165
WT259110	Ear hook, acc. to Schuhknecht, curved left, angled 45, size 1.0 x 165

Ear hook, acc. to Schuhknecht
round, 16 cm total length, 0.4 mm diameter



WT258502	Ear hook, acc. to Schuhknecht, round, angled down, size 0.4 x 160

45° Schuhknecht Hooks (2)



Ear hook, acc. to Schuhknecht
45° angled, 16.5 cm total length, various diameters (mm)



WT259202	Ear hook, acc. to Schuhknecht, curved right, angled 45, size 0.2 x 165
WT259204	Ear hook, acc. to Schuhknecht, curved right, angled 45, size 0.4 x 165
WT259206	Ear hook, acc. to Schuhknecht, curved right, angled 45, size 0.6 x 165
WT259208	Ear hook, acc. to Schuhknecht, curved right, angled 45, size 0.8 x 165
WT259210	Ear hook, acc. to Schuhknecht, curved right, angled 45, size 1.0 x 165



WT259302	Ear hook, acc. to Schuhknecht, curved up, angled 45, size 0.2 x 165
WT259304	Ear hook, acc. to Schuhknecht, curved up, angled 45, size 0.4 x 165
WT259306	Ear hook, acc. to Schuhknecht, curved up, angled 45, size 0.6 x 165
WT259308	Ear hook, acc. to Schuhknecht, curved up, angled 45, size 0.8 x 165
WT259310	Ear hook, acc. to Schuhknecht, curved up, angled 45, size 0.8 x 165

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Micro Dissection Instruments

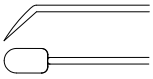


- Micro elevators, raspatories and dissectors:
  delicate and micro models,
  single and double curved models
- Micro curettes:
  double-ended, sharp models,
  round and oval cup models,
  straight and curved models

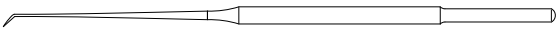
EXPLORENT

Micro Elevators, Raspatories, Dissectors

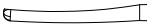
Raspatory
micro, 16.5 cm total length



WT250500 Raspatory, micro, size 165



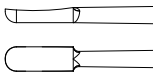
Elevator, acc. to Houghes
0.5 width, 16 cm total length



WT250700 Elevator, acc. to Houghes, curved, size 0.5 x 160

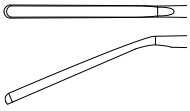


Elevator, acc. to Beales
1.5 mm width, 16 cm total length



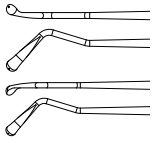
WT250600 Elevator, acc. to Beales, curved, size 1.5 x 160

Raspatory
oval, 1.8 mm width, 16 cm total length



WT260400 Raspatory, oval, size 1.8 x 160

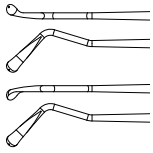
Dissector
delicate, 1.4 mm width, 16 cm total length



WT260500 Dissector, delicate, double curved, right, size 1.4 x 160

WT260600 Dissector, delicate, double curved, left, size 1.4 x 160

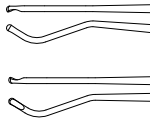
Dissector
1.9 mm width, 16 cm total length



WT260700 Dissector, double curved, right, large, size 1.9 x 160

WT260800 Dissector, double curved, left, large, size 1.9 x 160

Dissector
Fisch-type, 1.9 mm width, 16 cm total length



WT263001 Dissector, double curved, right, size 1.9 x 160

WT263002 Dissector, double curved, left, size 1.9 x 160

WT263003 Dissector, acc. to Fisch, single curved, right, size 1.9 x 160

WT263004 Dissector, acc. to Fisch, single curved, left, size 1.9 x 160

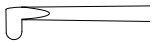
Micro Elevators, Raspatories, Dissectors (2)

Elevator, acc. to Rosen
1.2 mm width, 16 cm total length



WT260000 Elevator, acc. to Rosen, size 1.2 x 160

Dissector
16.5 cm total length

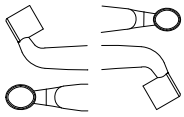


WT230332 Dissector, acc. to House, Crabtree type, angled 90, size 165

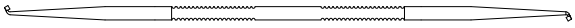


House Micro Curettes

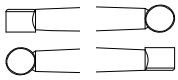
Curette, acc. to House
17 cm, double-ended, round cups, sharp, curved, 1.0 x 1.2 mm diameter



WT272500 Curette, acc. to House, round, curved, size 1.0/1.2 x 170



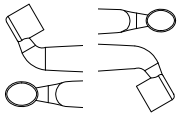
Curette, acc. to House
17 cm, double-ended, round cups, sharp, straight, 1.0 x 1.2 mm diameter



WT272700 Curette, acc. to House, round, straight, size 1.0/1.2 x 170



Curette, acc. to House
17 cm, double-ended, oval cups, sharp, curved, various diameters (mm)

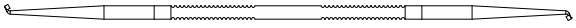


WT272600 Curette, acc. to House, double-ended, oval, curved, size 0.8 x 1.0/1.0 x 1.2 170

WT272601 Curette, acc. to House, double-ended, oval, curved, size 1.1 x 1.5/1.3 x 1.8 170

WT272602 Curette, acc. to House, double-ended, oval, curved, size 1.5 x 2.2/1.9 x 2.6 170

WT272603 Curette, acc. to House, double-ended, oval, curved, size 2.3 x 3.1/2.5 x 3.3 170



Heermann Instruments





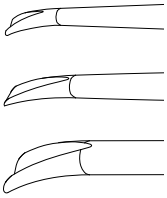
- Special otology mallets
- Micro gouges and mobilization hooks
- Long and finest grasping forceps
- Delicate attic inspection mirror

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Heermann Instruments



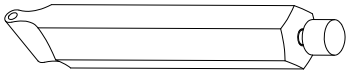
Gouge, acc. to Heermann
curved,
for partial resection of the bony posterior aural meatus and the lateral attic wall,
11 cm total length, various diameters (mm)



WT264010 Gouge, acc. to Heermann, curved, size 1.0 x 110
WT264015 Gouge, acc. to Heermann, curved, size 1.5 x 110
WT264030 Gouge, acc. to Heermann, curved, size 3.0 x 110

Handle, acc. to Heermann
black, 12 cm total length,
for WT264010–030, WT264301–304

WT264100 Handle, acc. to Heermann, black,
for Heermann gouges/micro larynx instruments

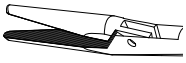


Spare Screw, acc. to Heermann

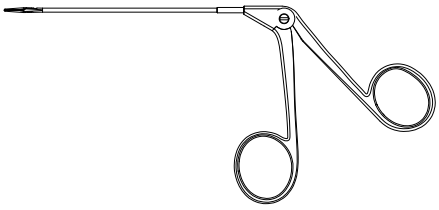
WT000804 Spare screw, for handle acc. to Heermann



Ear forceps, acc. to Heermann
long, delicate jaws, 9 cm total length,
for work between the stapes, in the small cavity of the oval window and around the footplate



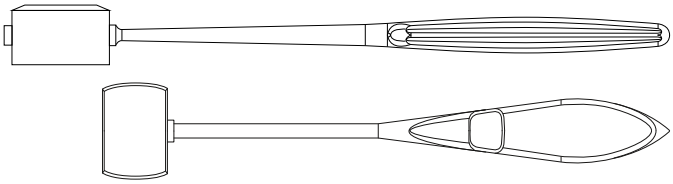
WT281700 Ear forceps, acc. to Heermann, straight, size 8



Heermann Instruments (2)

Mallet, acc. to Heermann
various total lengths (mm)

WT263500 Mallet, acc. to Heermann, large, size 220
WT263501 Mallet, acc. to Heermann, small, size 170



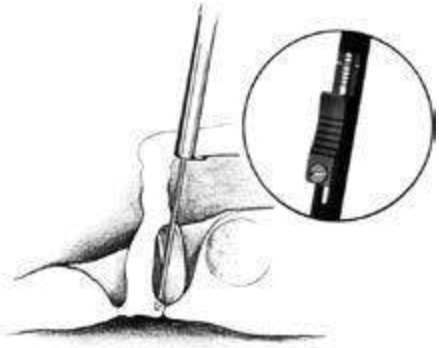
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Micro Gauge, Micro Measuring Device







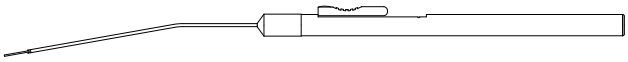
- Microsurgical gauge for stapedectomy and tympanoplasty
- Highly precise scales
- Straight and bayonet-curved models
- Introducer for prosthesis

EXPLORENT

Measuring Devices

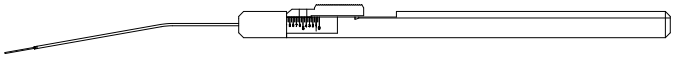
Gauge pin
18.5 cm total length, 0.4 mm gauge diameter,
for stapedectomy and tympanoplasty,
range 0–7 mm,
handle ebony finished, light in weight

WT269800 Gauge pin, 0-7, black handle, size 0.4 x 185



Gauge pin
21 cm total length, 0.3 mm diameter,
for stapedectomy and tympanoplasty,
range 0–10 mm,
highly precise scale

WT269900 Gauge pin, Explorent type, 0-10, size 0.3 x 210

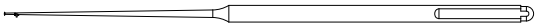


Measuring Rods

Gauge pin
3.5 mm, 4.0 mm, 4.5 mm,
16 cm total length



WT256500 Gauge pin, for stapes, size 3.5 x 4.0 x 4.5 160



Gauge pin, acc. to Fisch
16.5 cm total length,
various diamater (mm)



WT263204 Gauge pin, acc. to Fisch, size 0.4 x 165
WT263206 Gauge pin, acc. to Fisch, size 0.6 x 165
WT263208 Gauge pin, acc. to Fisch, size 0.8 x 165

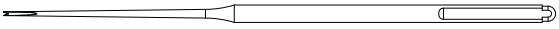


Introducer

Introducer, acc. to Plester
16.5 cm total length



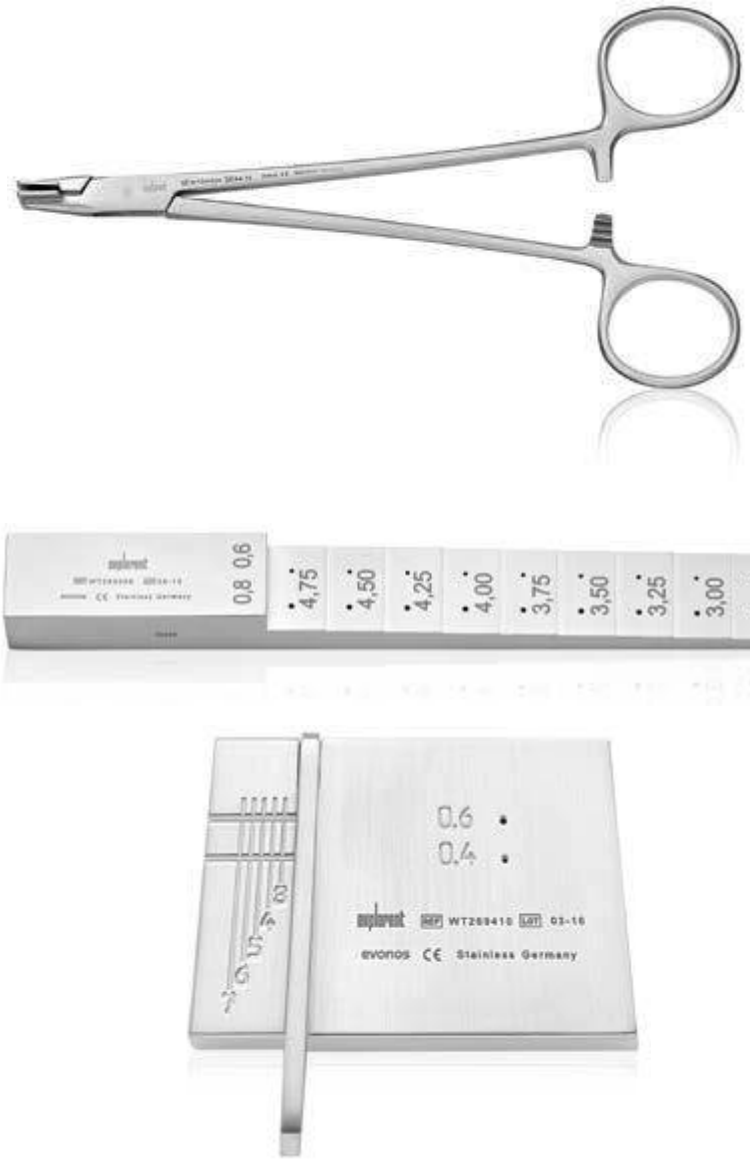
WT256800 Introducer, acc. to Plester,
for stapes prosthesis, size 165



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Accessories for Otologic Surgery

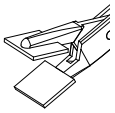


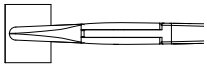
- Gelfoam Pressure Forceps: models with different sizes
- Jigs, blocks and trays for cutting and preparation
- Wire cutter with serrated blades

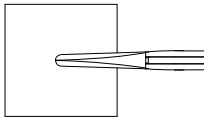
EXPLORENT

Gelfoam Pressure Forceps

Gelfoam pressure forceps, acc. to House
various sizes (mm)



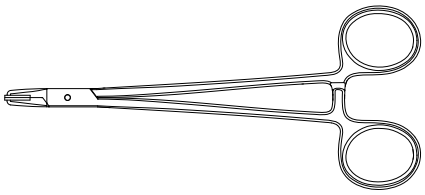




WT264500 Gelfoam pressure forceps, acc. to House, size 11 x 14

WT264501 Gelfoam pressure forceps, acc. to House, size 30 x 30

WT264502 Gelfoam pressure forceps, acc. to House, size 22 x 30 (not shown)



Scalpel Handles

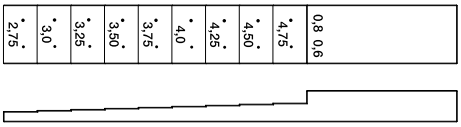
Scalpel handle
various total lengths (mm)

WT429003 Scalpel handle, no. 3, solid, size 125
WT429004 Scalpel handle, no. 4, solid, size 125
WT429007 Scalpel handle, no. 7, solid, long, size 165
WT429103 Scalpel handle, no. 3L, solid, straight, size 215
WT429104 Scalpel handle, no. 4L, solid, straight, size 215
WT429107 Scalpel handle, no. 7, solid, size 125



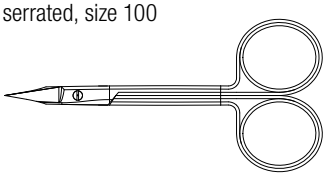
Cutting Tools for Prostheses

WT269300 Cutting jig, for PTFE prostheses



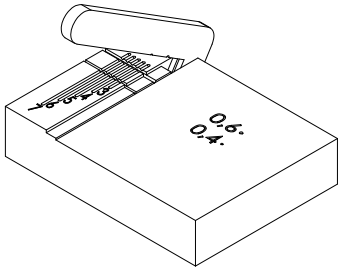
WT269500 Wire cutting scissors, acc. to Schuhknecht, serrated, size 100





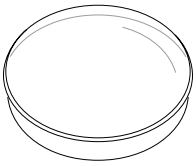
- Serrated

WT269410 Cutting jig, acc. to Fisch, for stapes prostheses, size 0.4 / 0.6



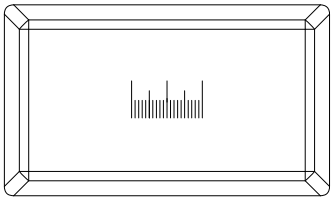
- 0.4 mm Ø and 0.6 mm Ø

WT269600 Cutting block, acrylic glass, size 80



- round, 8 cm Ø,
- autoclavable

WT269700 Tray, metal, with scale, size 95 x 55



- 95 x 55 mm, for implants

Wire Crimpers

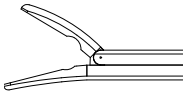


EXPLORENT

- Models with straight and differently curved jaws

Wire Crimpers

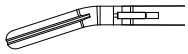
Ear forceps, acc. to McGee
0.8 x 3.5 mm,
8 cm working length



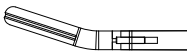
WT285000 Ear forceps, acc. to McGee, wire closure, curved down, size 8

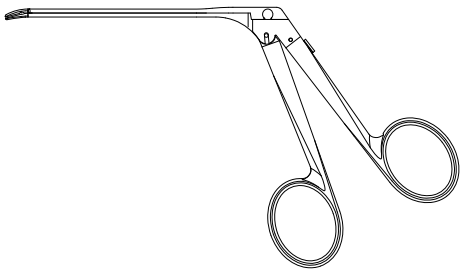


WT285001 Ear forceps, acc. to McGee, wire closure, curved left, size 8

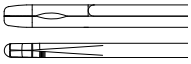


WT285002 Ear forceps, acc. to McGee, wire closure, curved right, size 8

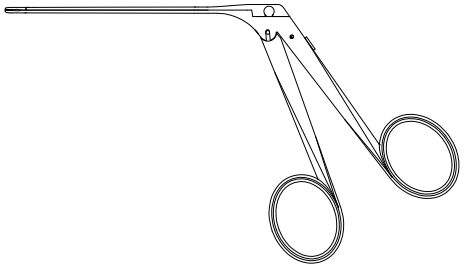




Ear forceps, acc. to Greven
8 cm working length



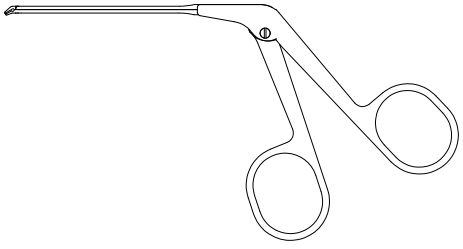
WT285010 Ear forceps, acc. to Greven, wire closure, size 8



Ear forceps, acc. to Fisch-McGee
Fisch-type,
8 cm working length



WT285100 Ear forceps, acc. to Fisch-McGee, wire closure, size 8



OLYMPUS

Your Vision, Our Future

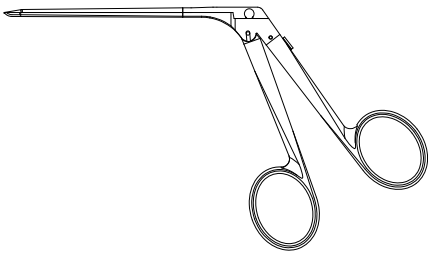
Micro Ear Scissors



- Very delicate, straight and differently curved models
- Crurotomy models, left and right curved
- Up- and downbiting Malleus nippers
- Neurectomy scissors with round handle

EXPLORENT

Bellucci and Shea-Bellucci Ear Scissors



Ear scissors, acc. to Bellucci
delicate, 8 cm working length,
various blade sizes (mm)

WT278000 Ear scissors, acc. to Bellucci, micro, straight, size 80

WT278001 Ear scissors, acc. to Bellucci, micro, curved to left, size 80

WT278002 Ear scissors, acc. to Bellucci, micro, curved to right, size 80

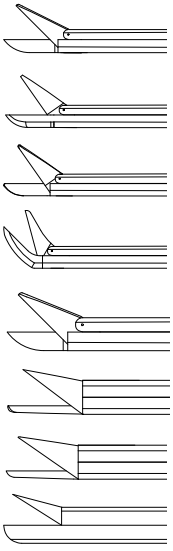
WT278003 Ear scissors, acc. to Bellucci, micro, curved up, size 80

WT278100 Ear scissors, acc. to Bellucci, micro, straight, size 3.0 x 80

WT278101 Ear scissors, acc. to Bellucci, micro, curved to left, size 3.0 x 80

WT278102 Ear scissors, acc. to Bellucci, micro, curved to right, size 3.0 80

WT278014 Ear scissors, acc. to Bellucci, micro, straight, size 4.0 x 80

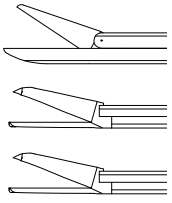


Ear scissors, acc. to Shea-Bellucci
8 cm working length,
various blade sizes (mm)

WT278200 Ear scissors, acc. to Shea-Bellucci, straight, size 8.0 x 80

WT278201 Ear scissors, acc. to Shea-Bellucci, curved to left, size 8.0 x 80

WT278202 Ear scissors, acc. to Shea-Bellucci, curved to right, size 8.0 x 80

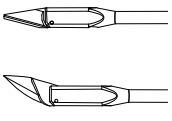


Wullstein Ear Scissors

Ear scissors, acc. to Wullstein
9 cm working length

WT278500 Ear scissors, acc. to Wullstein, straight, size 90

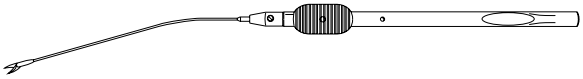
WT278503 Ear scissors, acc. to Wullstein, curved up, size 90



Fisch Ear Scissors

Fisch neurectomy scissors
18.5 cm total length, axial-handle,
4 mm blade length

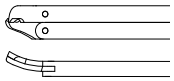
WT278300 Ear scissors, acc. to Fisch, for neurectomy, straight, size 4.0 x 185

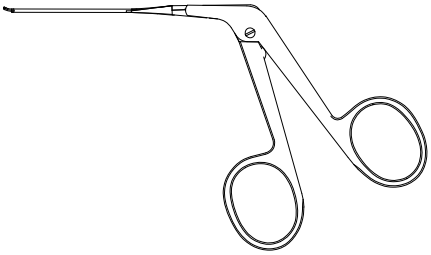


Fisch crurotomy scissors
7.5 cm working length

WT278601 Ear scissors, curved to left, size 80

WT278602 Ear scissors, curved to right, size 80



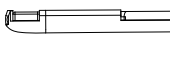


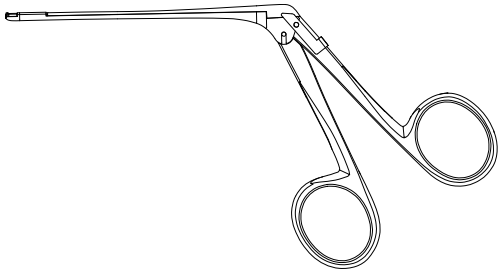
Dieter Malleus Nipper

Punch forceps
8 cm working length

WT283003 Punch forceps, for malleus, fine, curved up, size 80

WT283004 Punch forceps, for malleus, fine, curved down, size 80





Accessories

Protective sleeve
11.5 cm total length,
for storage and steam sterilization of micro ear forceps

WT279900 Protective sleeve, PTFE, for ear forceps, size 115



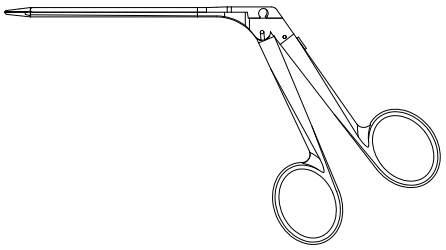
Ear Forceps



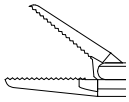
EXPLORENT

- Oval cupped jaws, straight and curved models
- Models with serrated, sharp and through-cutting jaws

Hartmann Ear Forceps

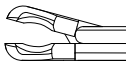


Ear forceps, acc. to Hartmann
8 cm working length,
straight, serrated



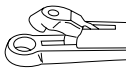
WT126000 Ear forceps, acc. to Hartmann, serrated, size 8

Ear forceps, acc. to Hartmann
8 cm working length, straight,
various diameter (mm)



WT127001 Ear forceps, acc. to Hartmann,
with cupped jaws, size 1.5 x 8
WT127002 Ear forceps, acc. to Hartmann,
with cupped jaws, size 2.0 x 8.5
WT127003 Ear forceps, acc. to Hartmann,
with cupped jaws, size 2.5 x 8.5
WT127004 Ear forceps, acc. to Hartmann,
with cupped jaws, size 3.0 x 8.5

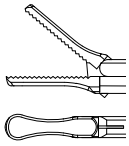
Ear forceps, acc. to Hartmann-Hoffmann
8 cm working length,
round cupped jaws,
through-cutting, 3.0 mm diameter, straight



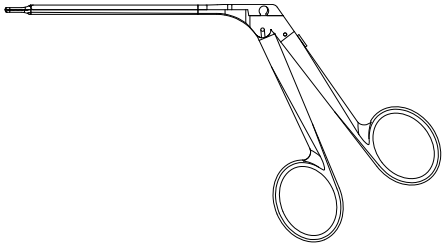
WT127500 Ear forceps, acc. to Hartmann-Hoffmann,
straight, size 8

Duckbill Ear Forceps

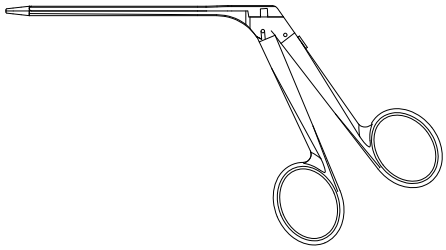
Ear forceps
8 cm working length, flat jaws, serrated



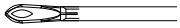
WT126300 Ear forceps, Duckbill shaped, serrated, size 8



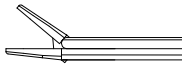
Struempel Ear Forceps



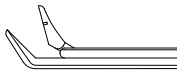
Ear forceps, acc. to Struempel
various working lengths (cm),
oval cupped jaws,
2.5 mm width



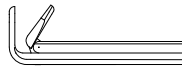
WT128000 Ear forceps, acc. to Struempel,
straight, size 8



WT128001 Ear forceps, acc. to Struempel,
curved up, size 8

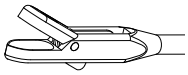


WT128002 Ear forceps, acc. to Struempel,
curved up, size 8.5

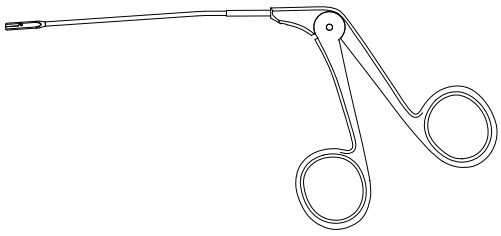


Wullstein-Blakesley Ear Forceps

Ear forceps, acc. to Wullstein-Blakesley
tube shaft, 2 mm width,
10 cm working length, straight



WT129000 Ear forceps, acc. to Wullstein-Blakesley, size 2 x 10



Micro Ear Forceps

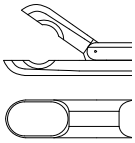


- Models with oval cupped and serrated jaws
- Very delicate and super-delicate models
- Slide shaft and tube shaft models

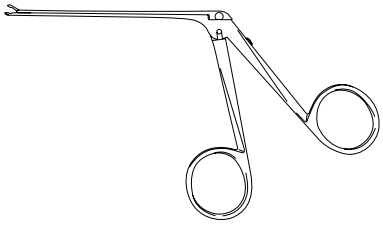
EXPLORENT

Micro Ear Forceps With Oval Cups

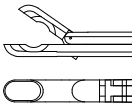
Ear forceps
oval cupped jaws, 1.0 x 1.5 mm,
jaws 4 mm, 8.5 cm working length



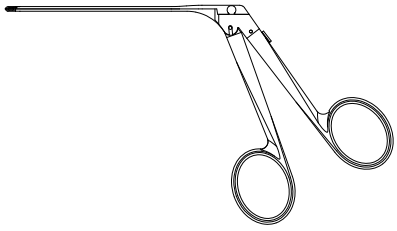
WT279500 Ear forceps, with oval cups, delicate, straight, size 1.0 x 8.5
WT279501 Ear forceps, with oval cups, delicate, curved left, size 1.0 x 8.5
WT279502 Ear forceps, with oval cups, delicate, curved right, size 1.0 x 8.5
WT279503 Ear forceps, with oval cups, delicate, curved up, size 1.0 x 8.5
WT279504 Ear forceps, with oval cups, micro, curved down, size 8



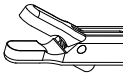
Ear forceps
oval cupped jaws, 0.7 x 1.0 mm, jaws 3.5 mm,
8.5 cm working length, straight



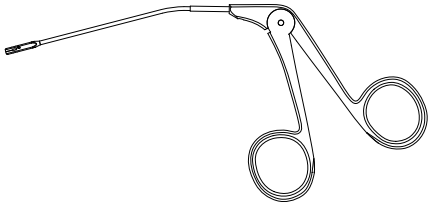
WT279600 Ear forceps, with oval cups, very delicate, straight, size 0.7 x 8.5
WT279700 Ear forceps, with oval cups, super delicate, straight, size 0.7 x 8.5



Ear forceps
9.5 cm working length,
tube shaft 1.5 mm diameter,
oval cupped jaws 2.5 x 5 mm, delicate, straight

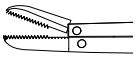


WT279800 Ear forceps, micro, with oval jaws, straight, size 9.5

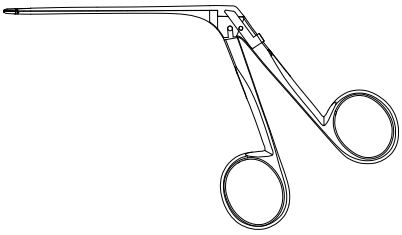


Serrated Micro Ear Forceps

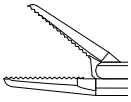
Ear forceps
curved left, 8 cm working length



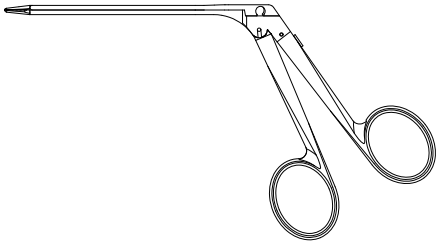
WT280301 Ear forceps, micro, curved left, size 8



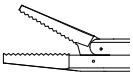
Ear forceps
delicate, serrated, 8 cm working length



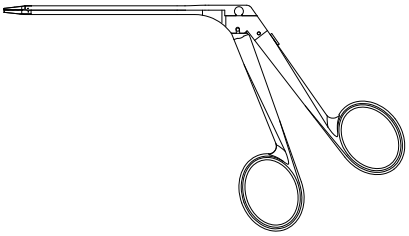
WT280000 Ear forceps, micro, serrated, straight, size 8
WT280500 Ear forceps, micro, serrated, straight, short jaws, size 8
WT280501 Ear forceps, micro, serrated, curved left, size 8
WT280502 Ear forceps, micro, serrated, curved right, size 8
WT280503 Ear forceps, micro, serrated, curved up, size 8



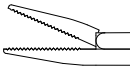
Ear forceps
Fisch-type, very delicate,
straight, serrated, 0.7 x 3.5 mm,
8 cm working length



WT280600 Ear forceps, micro, serrated, very delicate, curved up, size 8



Ear forceps
super delicate,
straight, serrated, 0.7 x 3.5 mm,
8 cm working length

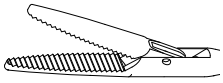


WT280700 Ear forceps, micro, serrated, super delicate, straight, size 8

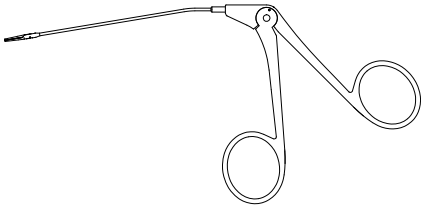
Micro Ear Forceps
(cont.)

Delicate Micro Ear Forceps

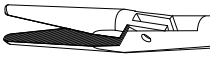
Ear forceps, acc. to House
very delicate,
serrated, tube shaft 0.9 mm diameter,
8 cm working length, straight



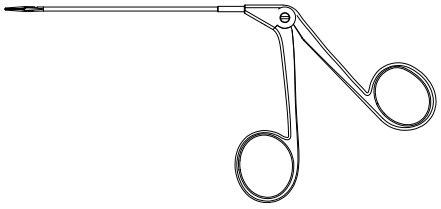
WT281500 Ear forceps, acc. to House, serrated, very delicate, size 8



Ear forceps, acc. to Heermann
long, delicate jaws,
8 cm working length,
for work between the stapes, in the small cavity of the oval window and around the footplate



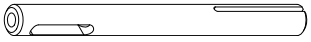
WT281700 Ear forceps, acc. to Heermann, straight, size 8



Accessories

Protection sleeve
11.5 cm total length,
for storage and steam sterilization of micro ear forceps

WT279900 Protective sleeve, PTFE, for ear forceps, size 115



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Ventilation Tube Inserters

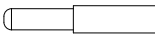


- Models with ring handles, round handles
- Ebony-finished models
- T-tube inserter with 3-step adjustment

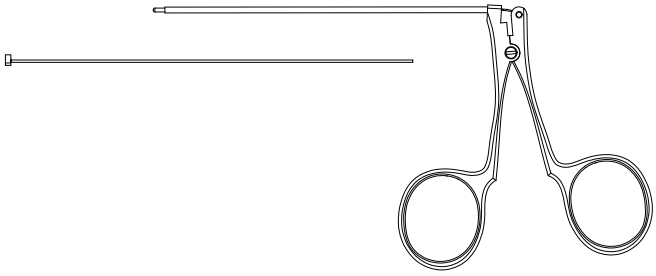
EXPLORENT

Tube Inserters

Ear forceps
15.5 cm working length,
with stylet 1.0 mm (WT285210) and
1.2 mm diameter (WT285212)



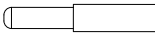
WT285200 Ear forceps, inserter for ventilation tubes,
size 1.0 and 1.2 x 155



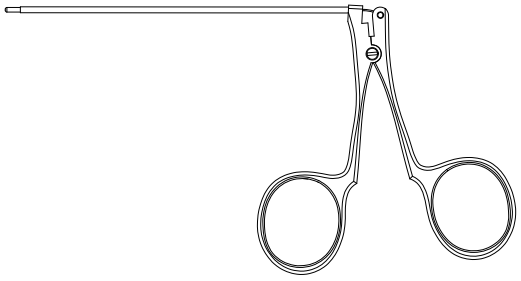
Mandrin
11.5 cm total length, for WT285200,
various diameters (mm) (not shown)

WT285210 Mandrin, for WT285200, size 1.0
WT285212 Mandrin, for WT285200, size 1.2

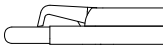
Ear forceps, acc. to Morgan
17 cm, conical tip



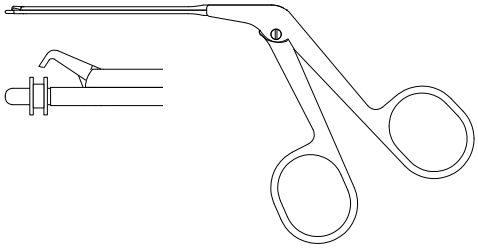
WT285250 Ear forceps, acc. to Morgan,
inserter for ventilation tubes, size 170



Ear forceps
14 cm,
for tubes with 0.95 mm Ø or larger



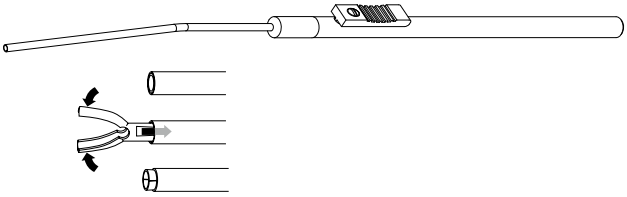
WT285300 Ear forceps, inserter for ventilation tubes, size 140



T-Tube Inserters

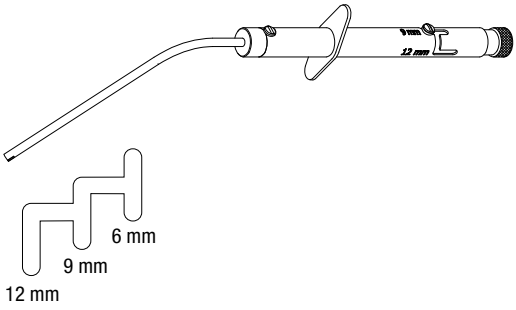
Inserter
handle ebony finished,
18.5 cm working length

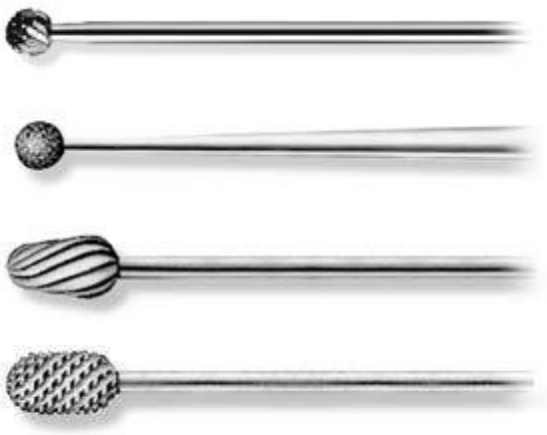
WT285600 Inserter, for T-Tubes, size 185



Inserter
handle ebony finished, 16 cm total length,
adjustment to the required setting
(3 steps), allows for the precise
insertion of 6, 9 and 12 mm T-tubes

WT285700 Inserter, for T-Tubes, size 160





- Round, bud, cylindrical and conical models
- Steel, tungsten carbide and diamond-coated models
- 2.35 mm shaft diameter, for power drills up to 40,000 min^{-1}.
- Racks for straight shaft burrs with total length of 70 mm

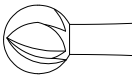
EXPLORENT

Round Standard Burrs



Burr
round,
straight shaft, stainless steel,
2.35 mm shaft Ø,
70 mm total length ,
various diameter (mm)

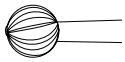
WT236006	Burr, round, size 0.6 x 70
WT236008	Burr, round, size 0.8 x 70
WT236010	Burr, round, size 1.0 x 70
WT236014	Burr, round, size 1.4 x 70
WT236018	Burr, round, size 1.8 x 70
WT236023	Burr, round, size 2.3 x 70
WT236027	Burr, round, size 2.7 x 70
WT236031	Burr, round, size 3.1 x 70
WT236035	Burr, round, size 3.5 x 70
WT236040	Burr, round, size 4.0 x 70
WT236045	Burr, round, size 4.5 x 70
WT236050	Burr, round, size 5.0 x 70
WT236060	Burr, round, size 6.0 x 70
WT236070	Burr, round, size 7.0 x 70



Burr
round, coarse,
straight shaft, stainless steel,
2.35 mm shaft Ø ,
57 mm total length,
various diameter (mm)

WT000867	Burr, round, size 4.0 x 57
WT000868	Burr, round, size 4.5 x 57
WT000869	Burr, round, size 5.0 x 57
WT000870	Burr, round, size 6.0 x 57
WT000871	Burr, round, size 7.0 x 57

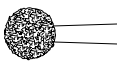
Round Tungsten Carbide Burrs



Burr
round,
cutting edge running over the top,
straight shaft, stainless steel,
2.35 mm shaft Ø,
70 mm total length,
various diameter (mm)

WT236110	Burr, round, tungsten carbide, size 1.0 x 70
WT236118	Burr, round, tungsten carbide, size 1.8 x 70
WT236123	Burr, round, tungsten carbide, size 2.3 x 70
WT236127	Burr, round, tungsten carbide, size 2.7 x 70
WT236131	Burr, round, tungsten carbide, size 3.1 x 70
WT236135	Burr, round, tungsten carbide, size 3.5 x 70
WT236140	Burr, round, tungsten carbide, size 4.0 x 70
WT236145	Burr, round, tungsten carbide, size 4.5 x 70
WT236150	Burr, round, tungsten carbide, size 5.0 x 70
WT236160	Burr, round, tungsten carbide, size 6.0 x 70
WT236170	Burr, round, tungsten carbide, size 7.0 x 70

Round Diamond Burrs



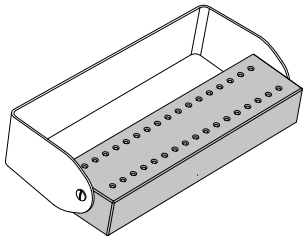
Burr
diamond, round,
straight shaft, stainless steel,
2.35 mm shaft Ø,
70 mm total length,
various diameter (mm)

WT242006	Burr, diamond, size 0.6 x 70
WT242007	Burr, diamond, size 0.7 x 70
WT242008	Burr, diamond, size 0.8 x 70
WT242010	Burr, diamond, size 1.0 x 70
WT242014	Burr, diamond, size 1.4 x 70
WT242018	Burr, diamond, size 1.8 x 70
WT242023	Burr, diamond, size 2.3 x 70
WT242027	Burr, diamond, size 2.7 x 70
WT242031	Burr, diamond, size 3.1 x 70
WT242035	Burr, diamond, size 3.5 x 70
WT242040	Burr, diamond, size 4.0 x 70
WT242045	Burr, diamond, size 4.5 x 70
WT242050	Burr, diamond, size 5.0 x 70
WT242060	Burr, diamond, size 6.0 x 70
WT242070	Burr, diamond, size 7.0 x 70

Accessories

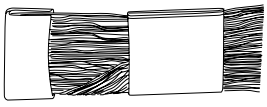
Rack
for 70 mm straight shaft burrs,
holds total of 34 burrs

WT225300 Rack, for 34 burrs



Wire brush
for burrs, autoclavable,
5 pcs.

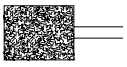
WT226300 Wire brush, 5 pcs.



Dermabraders

Dermabrader
cylindrical,
diamond coated,
straight shaft,
2.35 mm shaft Ø,
50 mm total length,
12.0 x 15.0 mm working part Ø

WT246600 Dermabrader, diamond, size 12/15 x 50



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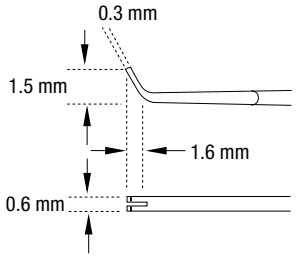
Richards Instruments



Tube Inserters, Curettes

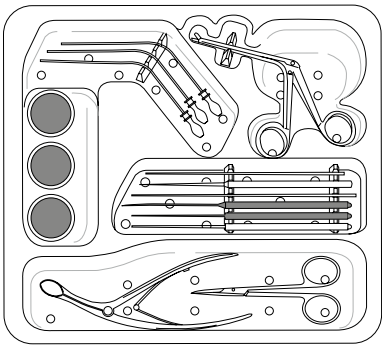
Phenol Applicator

130610 Duberstein phenol applicator,
round, knurled handle,
157 mm, 6.2",
ebony finish



Myringotomy Case

131413 Myringotomy case,
10" x 2.5" x 10.5",
indudes lid and finger mat,
empty case, instruments not included



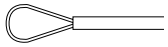
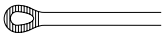
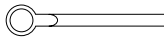
- The case includes space for:
  6 ear specula, 3 alligator forceps, 3 suction tubes,
  and 6 picks.
- Large pocket to hold larger, miscellaneous instruments.

Wax Curettes



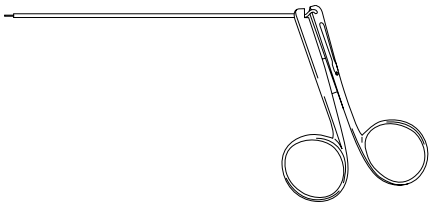
Wax curette,
polypropylene handle,
stainless steel shaft, 76 mm,
sterile, 6 pcs.

130750 Billeau, small
130751 Billeau, medium
130752 Billeau, large
130755 Shapleigh, small
130756 Shapleigh, large
130759 Buck, size 0
130760 Buck, size 1
130761 Buck, size 2
130762 Buck, size 3

Morgan Ventilation Tube Inserters

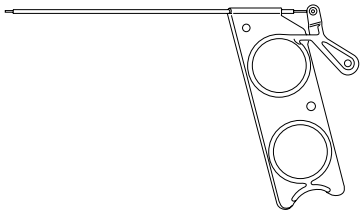
130547 Morgan ventilation tube inserter,
stainless steel, vapor blast finish,
106 mm (4.2") shaft length,
large, 1.2 mm (0.05")



Ventilation Tube Inserter

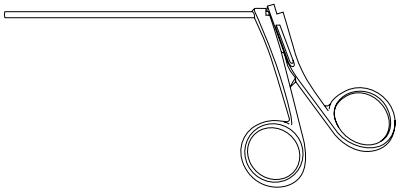
130710 Ventilation tube inserter,
polypropylene handle,
stainless steel shaft,
1.14 mm (0.45") inner diameter,
6 pcs.,
sterile, single-use

U.S. Patent No. 3,897,786



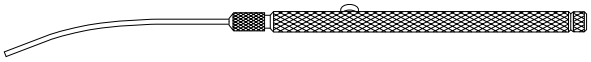
T-Tube Inserter

130549 T-tube inserter,
stainless steel, satin finish,
1.2 mm (0.047") shaft diameter,
96.5 mm (3.8") shaft length

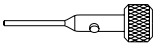


Universal T-Tube Inserter

130550 Universal T-tube inserter,
stainless steel, satin finish,
80 mm (3.15") shaft length,
200 mm (7.8") overall length



130551 Inserter stylus,
spare for 130550,
handle style round, knurled,
vapor blast finish,
11 mm (0.43") tip diameter,
26 mm (1.02") overall length



130553 Standard tip,
spare for 130550,
handle style round, knurled,
vapor blast finish,
1.7 mm (0.067") tip diameter,
80 mm (3.1") overall length



Ear Specula



Ear speculum,
stainless steel,
ebony finish,

70130629	2.5 mm	2.5 mm
130630	3 mm	3 mm
130634	3.5 mm	3.5 mm
130640	4 mm	4 mm
130645	4.5 mm	4.5 mm
130650	5 mm	5 mm
130655	5.5 mm	5.5 mm
130660	6 mm	6 mm
130665	6.5 mm	6.5 mm
130670	7 mm	7 mm
130675	7.5 mm	7.5 mm
130680	8 mm	8 mm

Disposable Ear Specula

Child ear specula,
polypropylene,
sterile, single use,

130698 round, nonbeveled, 3 mm
130699 oval, beveled, 4 mm



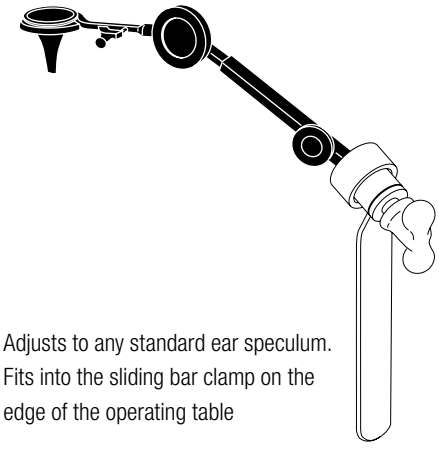
Adult ear specula,
polypropylene,
sterile, single use,

130700 oval, beveled, 5 mm
130702 oval, beveled, 6 mm



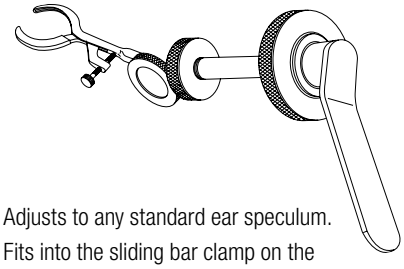
Speculum Holders

130070 Speculum holder,
stainless steel,
ebony finish



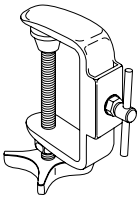
Adjusts to any standard ear speculum.
Fits into the sliding bar clamp on the
edge of the operating table

130072 Schuknecht modification of speculum holder,
stainless steel,
ebony finish



Adjusts to any standard ear speculum.
Fits into the sliding bar clamp on the
edge of the operating table

130074 C-clamp for speculum holder,
stainless steel, chrome finish

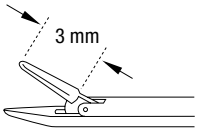


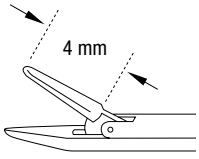
Attaches to the operating table.

Cawthorne Ear Forceps

Cawthorne alligator forceps,
straight, smooth,
70 mm shaft length,
ebony finish,

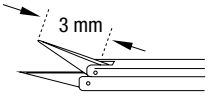
131205 3 mm jaws length
131216 4 mm jaws length

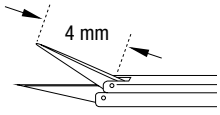




Cawthorne delicate scissors,
straight,
70 mm shaft length,
ebony finish,

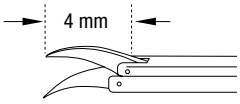
131229 3 mm jaws length
131230 4 mm jaws length

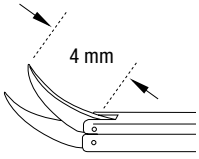




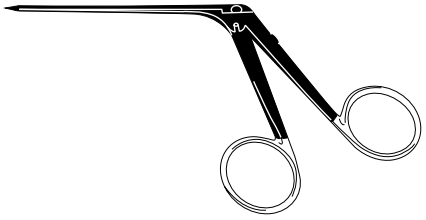
Cawthorne delicate scissors,
4 mm jaws length,
70 mm shaft length
ebony finish,

131231 curved left
131232 curved right



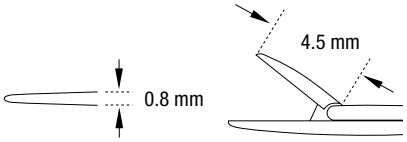


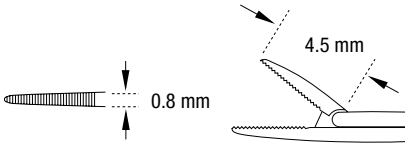
Gold Alligator Forceps



Gold alligator forceps,
68 mm shaft length,
ebony finish,
gold plated rings,

130330 straight, smooth, 4.5 mm jaws length
130331 straight, serrated, 4.5 mm jaws length

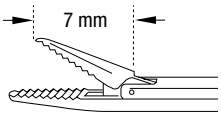




Hartmann Alligator Forceps

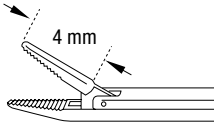
Hartmann alligator forceps,
serrated,
straight,
70 mm shaft length,
vapor blast finish,

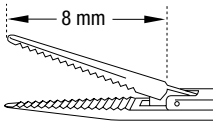
131227 7 mm jaws length



Hartmann alligator forceps,
serrated,
straight,
70 mm shaft length,
ebony finish,

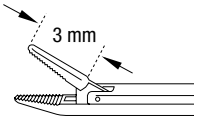
131210 4 mm jaws length
131211 8 mm jaws length

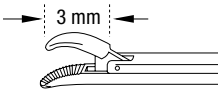


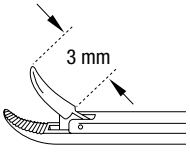


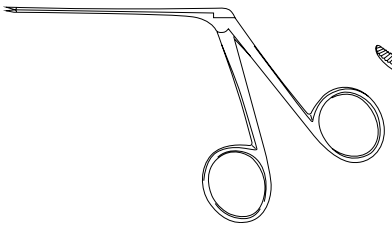
Hartmann alligator forceps,
serrated,
3 mm jaws length,
70 mm shaft length,
ebony finish,

131200 straight
131201 curved left
131202 curved right



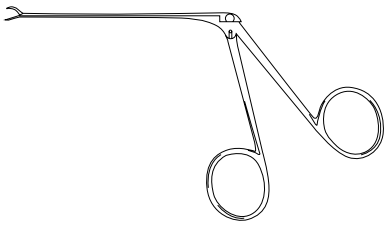




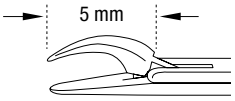


House Wire Closure Forceps

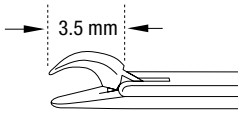
Designed for John House, M.D., Los Angeles, CA, USA



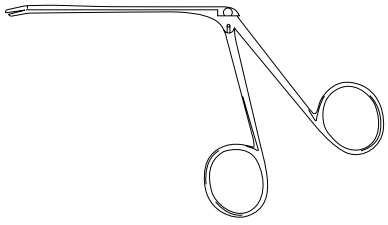
70230221 Large crimper,
5.5 mm jaws length,
81 mm shaft length,
stainless steel,
matt finish



70230220 Small crimper,
3.5 mm jaws length,
67,5 mm shaft length,
stainless steel,
matt finish

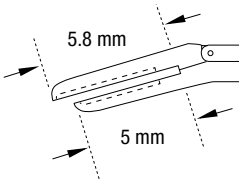


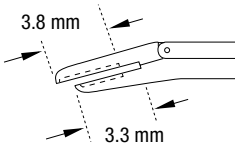
McGee Wire Closure Forceps



McGee wire closure forceps,
smooth,
70 mm shaft length,
ebenoy finish,

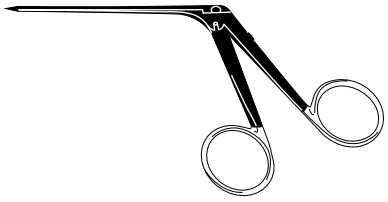
230192 large
230193 small
131225 angled down



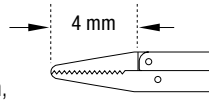


Ear Forceps
(cont.)

Mini-McGee Instruments

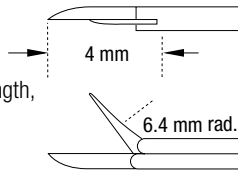


Mini-McGee forceps,
straight,
4 mm jaws length, 80 mm shaft length,
ebony finish,
electropolished rings,



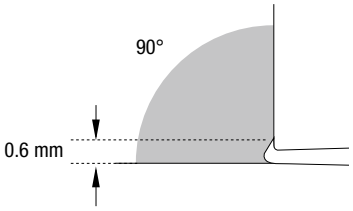
131040 serrated
131041 smooth

131044 Mini-McGee scissors,
straight, sharp,
4 mm jaws length, 80 mm shaft length,
ebony finish,
electropolished handle

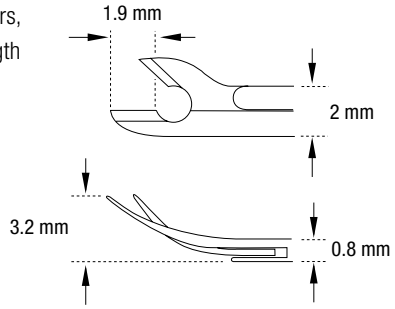


Nippers

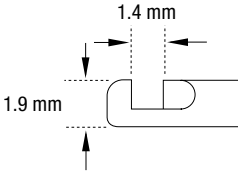
131223 Malleus nippers,
straight,
2.5 mm jaws length,
70 mm shaft length,
ebony finish



Fisch crura nippers,
76 mm shaft length
ebony finish
230006 curved left
230007 curved right

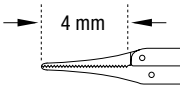


230077 House type malleus nippers,
straight,
1.4 mm jaws length,
80 mm shaft length,
ebony finish

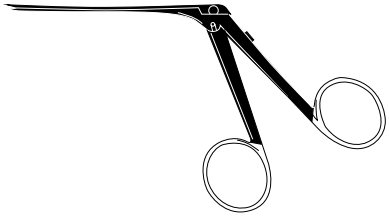


Posigators

Posigator forceps,
straight,
positive locking jaws,
4 mm jaws length, 70 mm shaft length,
ebony finish,
electropolished rings,



130003 serrated
130004 smooth



Protective Sleeve

- Protects shaft and tips.

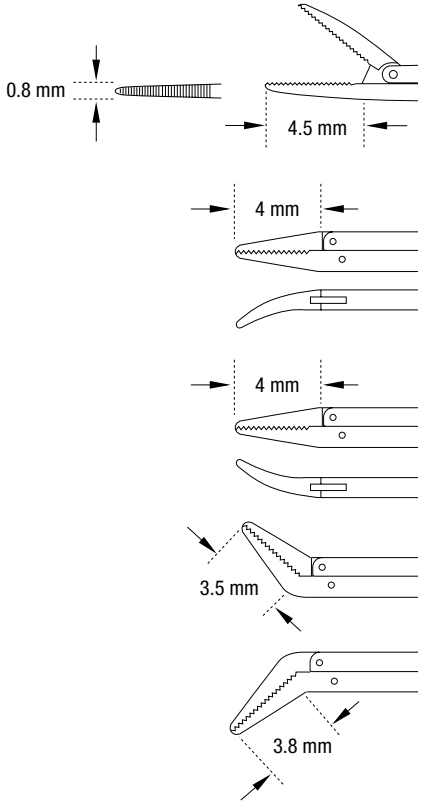
130128 Protective sleeve, for alligator forceps, 102 mm overall length, fluoroplastic, autoclavable



Ear Forceps

Alligator forceps,
serrated,
70 mm shaft length,
ebony finish,

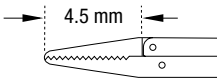
131010 straight, 4.5 mm jaws length
131012 curved left, 4.0 mm jaws length
131013 curved right, 4.0 mm jaws length
131014 curved up, 3.5 mm jaws length
131015 curved down, 3.8 mm jaws length



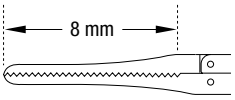
Ear Forceps



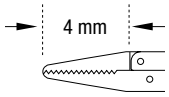
131016 Alligator forceps, straight, smooth, 4.5 mm jaws length, 70 mm shaft length, ebony finish



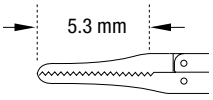
Alligator forceps,
straight, serrated,
ebony finish



230038 8 mm jaws length, 80 mm shaft length
230103 4 mm jaws length, 152 mm shaft length

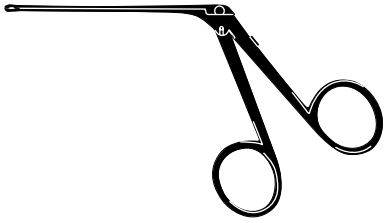


70230050 Richards alligator forceps, straight, serrated, 5.3 mm jaws length, 70 mm shaft length, ebony finish



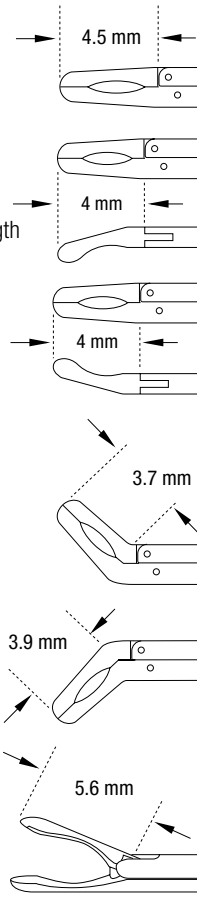
Ear Forceps
(cont.)

Ear Forceps and Scissors

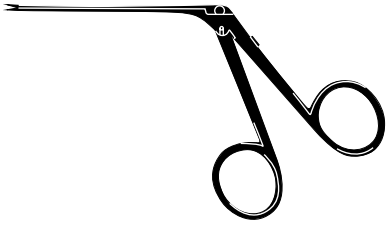


Cupped forceps,
70 mm shaft length,
ebony finish,

131024	straight, 4.5 mm jaws length
131025	curved left, 4.0 mm jaws length
131026	curved right, 4.0 mm jaws length
131027	angled up 45°, 3.7 mm jaws length
131028	curved down, 3.9 mm jaws length
131042	straight, Mini-McGee, 5.6 mm jaws length

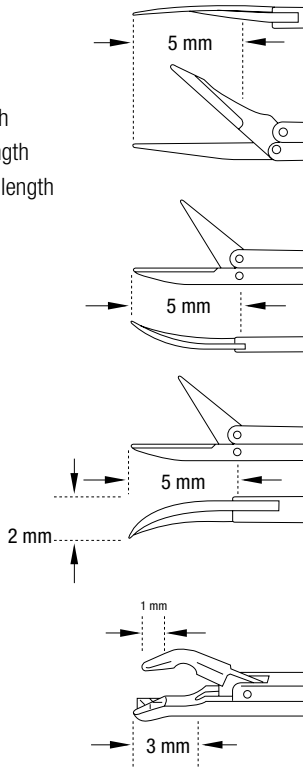


Ear Forceps and Scissors (cont.)

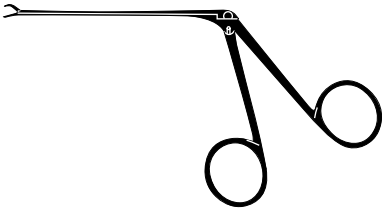


Delicate ear scissors,
5 mm jaws length,
ebony finish,

230061	straight, 80 mm shaft length
230062	curved up, 68 mm shaft length
230063	curved down, 80 mm shaft length

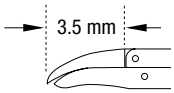


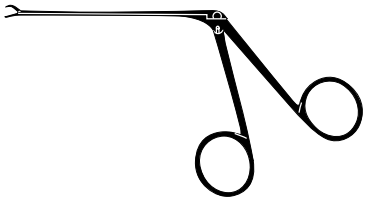
131226	Wire closure forceps, smooth, angled down, 70 mm shaft length, ebony finish



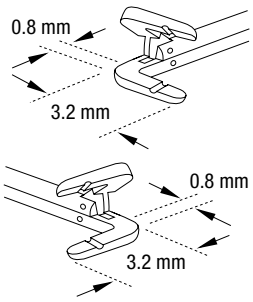
Richards Ear Forceps

131080 Schuknecht wire closure forceps,
smooth,
68 mm shaft length,
ebony finish



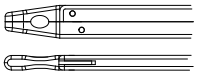


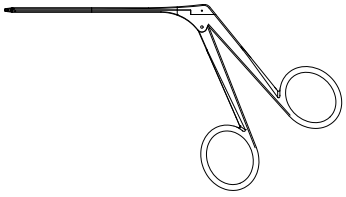
Seda wire closure forceps,
68 mm shaft length,
ebony finish,
131051 90° jaws angled left
131050 90° jaws angled right



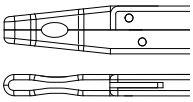
Shea Forceps

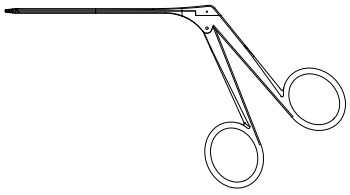
Shea oval cup,
131206 fine, 3 x .5 mm
131207 fine, curved left
131208 fine, curved right
131209 fine, curved up



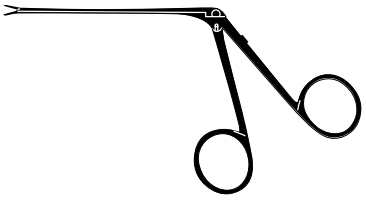


Shea oval cup alligator forceps,
131219 straight, 4 x .8 mm
131220 curved left, 4 x .8 mm
131221 curved right, 4 x .8 mm
131222 curved up, 4 x .8 mm

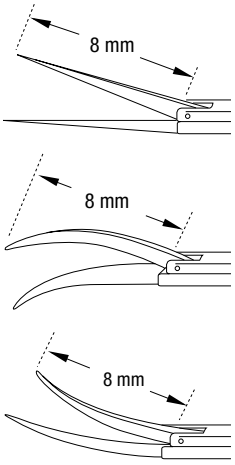




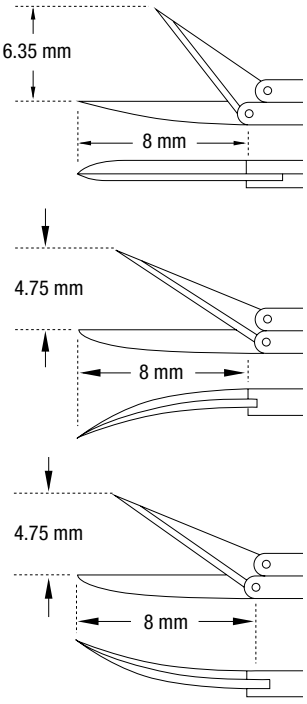
Shea Belluci Scissors



Shea Belluci scissors,
sharp,
8 mm jaws length, 70 mm shaft length,
ebony finish,
131233 straight
131234 curved left
131235 curved right



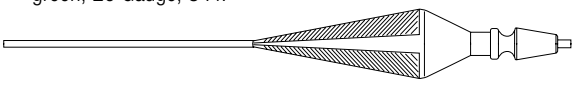
Shea Belluci scissors,
sharp,
8 mm jaws length, 80 mm shaft length,
ebony finish,
230071 straight
230072 curved left
230073 curved right



Disposable Ear Suction Tubes

Disposable ear suction tube,
polypropylene handle,
stainless steel shaft (76.2 mm length),
sterile, single-use, 6 pcs.,
without bypass,

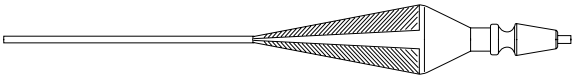
130718 red, 14 Gauge, 9 Fr.
130720 yellow, 16 Gauge, 7 Fr.
130722 black, 18 Gauge, 5 Fr.
130724 green, 20 Gauge, 3 Fr.



Disposable ear suction tube,
polypropylene handle,
stainless steel shaft (76.2 mm length),
sterile, single-use, 6 pcs.,
with bypass,

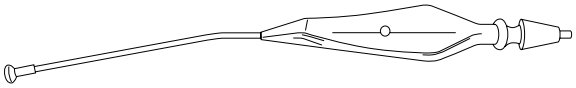
130783 red, 14 Gauge, 9 Fr.
130785 yellow, 16 Gauge, 7 Fr.
130787 black, 18 Gauge, 5 Fr.
130789 green, 20 Gauge, 3 Fr.

U.S. Patent No. D234,032

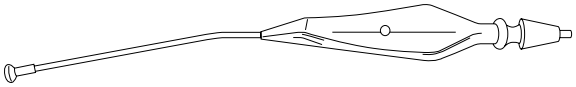


Foreign Body Removers

130800 Foreign body remover,
polypropylene handle,
stainless steel shaft (76.2 mm length),
nonsterile,
operating room pack, 1 pc.



130811 Foreign body remover,
polypropylene handle,
stainless steel shaft (76.2 mm length),
sterile, single-use,
emergency room pack, 6 pcs.,

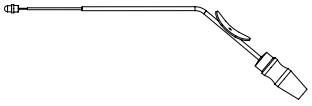


Designed for Harold F. Schuknecht, M.D., Boston, MA,
USAU.S. Patent No. D234,032

Suction Tubes

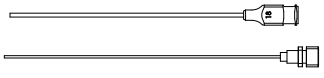
Suction tip only,

130151 20 gauge
130153 24 gauge



Ear suction needle,

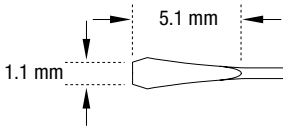
230085 18 gauge
230086 20 gauge
230087 22 gauge
230088 24 gauge



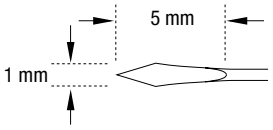
Drills

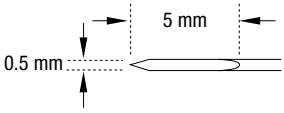


Buckingham footplate hand drill,
round, knurled handle,
straight shaft,
sharp tip,
149 mm overall length,
ebony finish,

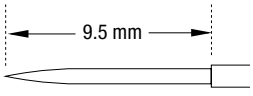


130470 large
130471 medium
130472 small





130462 Larkin hand perforator,
round, knurled handle,
straight shaft,
sharp tip,
168 mm overall length,
ebony finish





OtoView Instruments

70235620 OtoView elevator,
double-ended,
stainless steel,
ebony finish





70235621 OtoView knife,
double-ended,
round,
stainless steel,
ebony finish





70235622 OtoView knife,
sickle,
stainless steel,
ebony finish



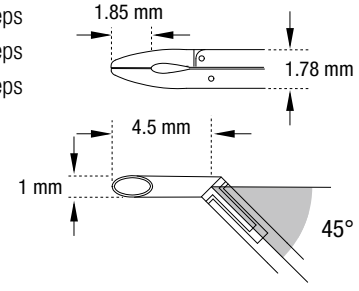


70235623 OtoView knife,
triangle,
stainless steel,
ebony finish

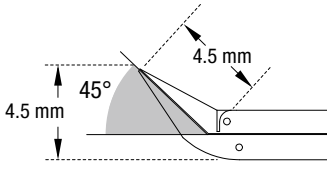




70235610 Otoview cupped forceps
70235611 Otoview cupped forceps
70235612 Otoview cupped forceps



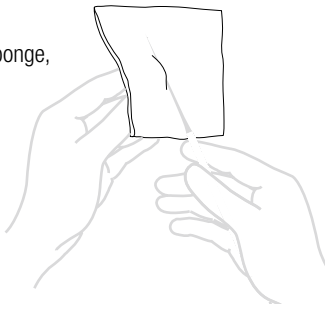
70235613 Otoview ear scissors



Instrument Wipes

Micro-Instrument wipes,
polyurethane ester foam,
3.5" x 3.5" nonfibrous sponge,
48 pcs.,

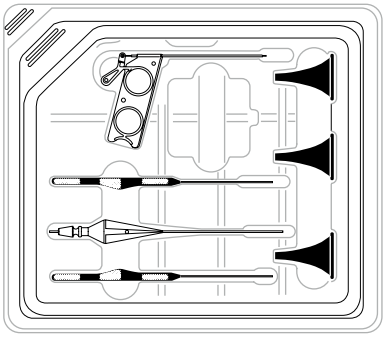
230030 sterile
70230034 non-sterile



Myringotomy Kits

Set-Op myringotomy kit,
sterile, single-use,

890205 for children (3, 4, and 5 mm specula)
890206 for adults (4, 5 and 6 mm specula)

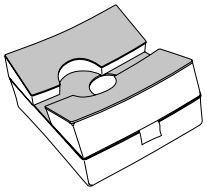


Delivery includes:
1 Billeau wax curette, 1 16 gauge suction needle with bypass, 1 myringotomy knife, sickle blade, contoured handle, 1 ventilation tube inserter (for 1.14 mm inner diameter tubes), 3 specula

Head Supports

Shea foam head support,
nonsterile,

150179 for children
150180 for adults



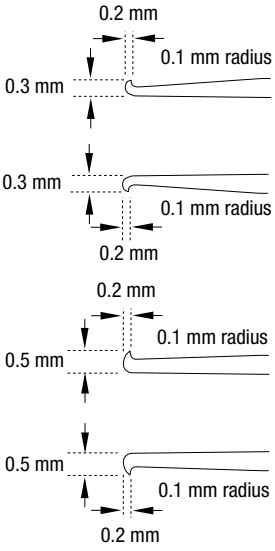
Designed for John J. Shea, M.D.,
Memphis, TN, USA
U.S. Patent No. 3,694,831.

Footplate Hook



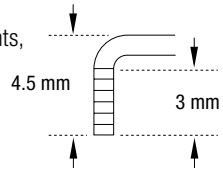
Lippy footplate hook,
round, knurled handle,
shaft angled 20°,
170 mm overall length,
ebony finish,

130135 angled up 90°, anterior
130136 angled up 90°, posterior
130137 angled up 90°, anterior, large
130138 angled up 90°, posterior, large



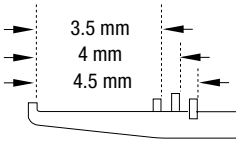
Depth Gauges

130976 Applebaum measuring rod,
straight, angled 90°,
depths markings in 0.5 mm increments,
round, knurled handle,
150 mm overall length,
ebony finish





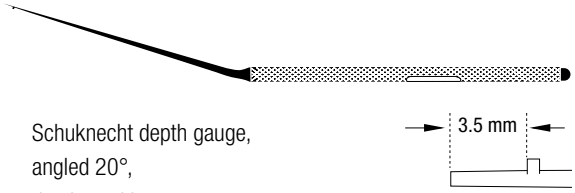
130290 Richards piston depth gauge,
straight,
depths markings staggered
around shaft
at 3.5 mm, 4.0 mm, 4.5 mm,
round, knurled handle,
174 mm overall length,
ebony finish





Miscellaneous
(cont.)

Depth Gauges



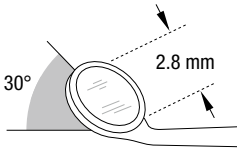
Schuknecht depth gauge,
angled 20°,
depth marking at 3.5 mm,
round, knurled handle,
154 mm overall length,
ebony finish

130291 0.6 mm
130292 0.8 mm

Buckingham Mirror



130535 Buckingham mirror,
straight,
round, knurled handle,
mirror angle 30°,
152 mm overall length,
vapor blast finish

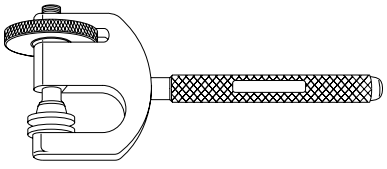


130536 Protective sleeve,
for Buckingham mirrror 130535,
white fluoroplastic,
115 mm overall length



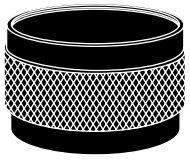
Vein Press

130146 Vein press,
15.8 x 15.8 mm press diameter,
stainless steel,
114 mm overall length

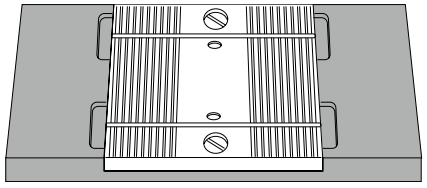


Cutting Blocks

130130 Austin surgical cutting block,
black polyoxymethylene,
63.5 mm diameter

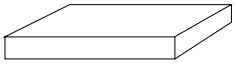


70135800 Goldenberg cutting block,
stainless steel,
polyoxymethylene

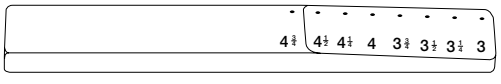


Designed for Robert Goldenberg, M.D., Dayton, OH, USA

130131 House cutting block,
white polyoxymethylene,
73 x 38 mm

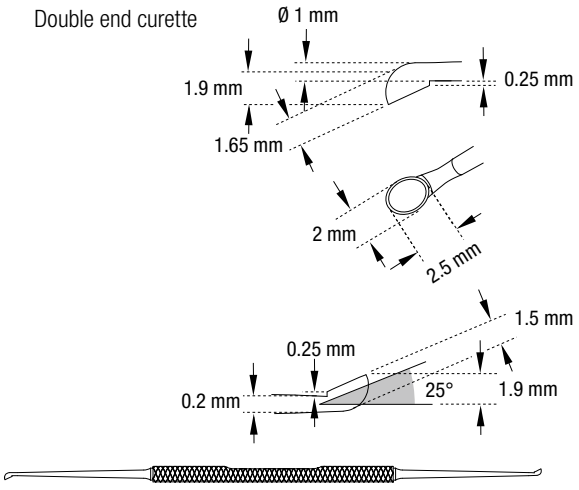


130289 Piston cutting jig,
stainless steel,
86 mm overall length

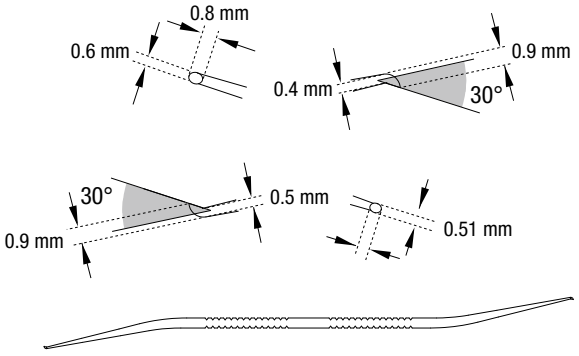


Curettes

130147 Double end curette

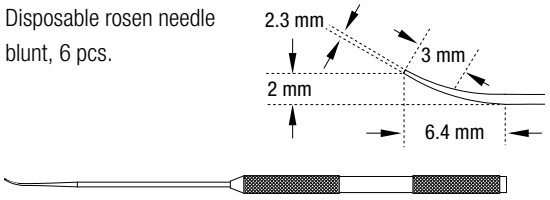


130148 Ruggles micro curette, double ended

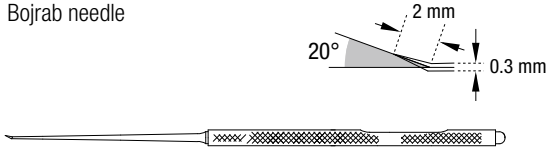


Needles

130726 Disposable rosen needle blunt, 6 pcs.

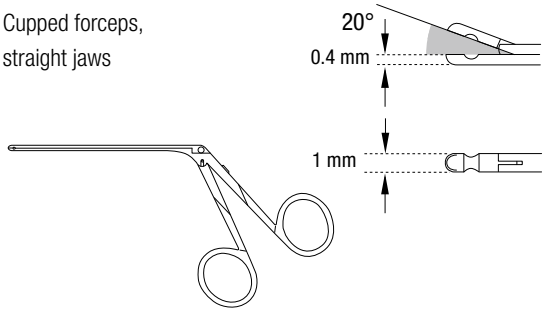


70133005 Bojrab needle

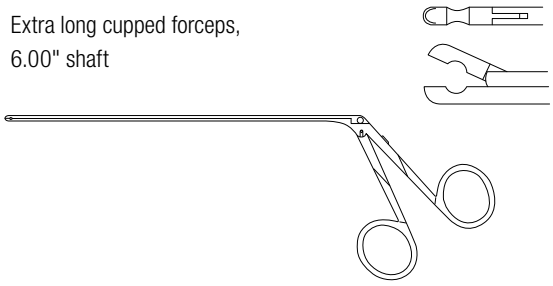


Forceps

230051 Cupped forceps, straight jaws



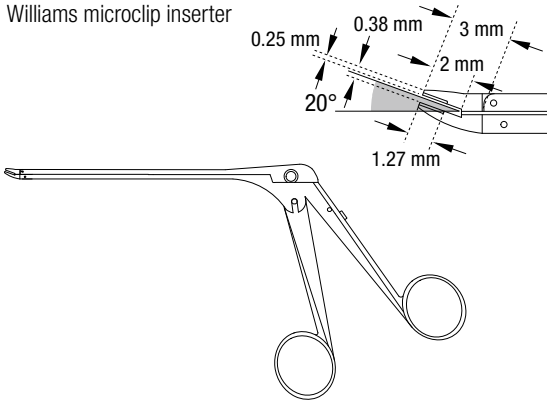
230104 Extra long cupped forceps, 6.00" shaft



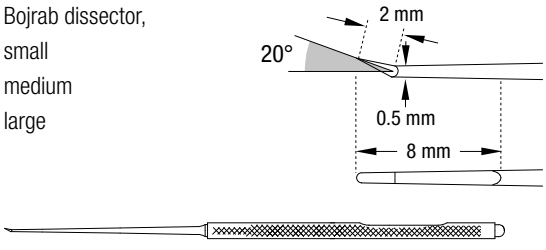
132319 Gruenwald dressing forceps, bayshpd, serrated, length 190 mm (not shown)

Inserter, Dissector

130830 Williams microclip inserter



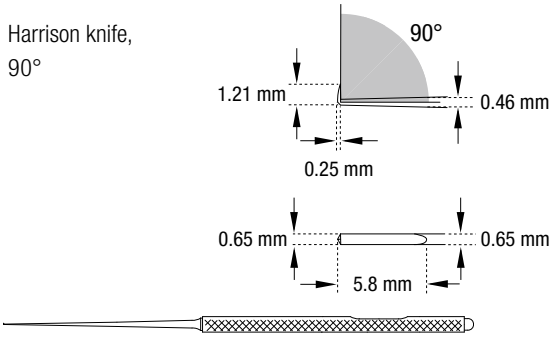
Bojrab dissector,
70133000 small
70133001 medium
70133002 large



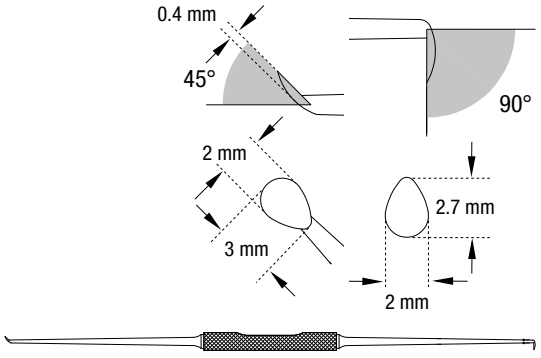
Miscellaneous
(cont.)

Knives

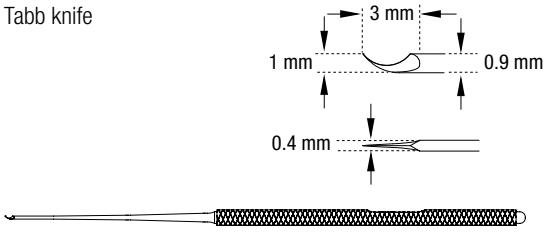
130295 Harrison knife, 90°



130064 Tabb double ended flap knife

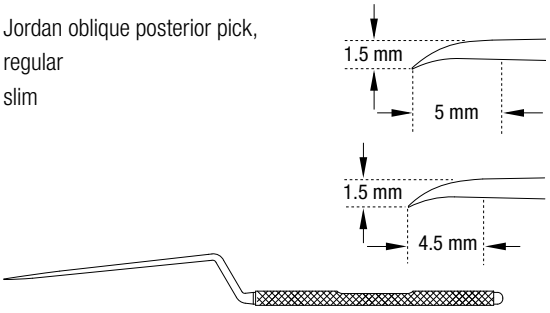


130066 Tabb knife

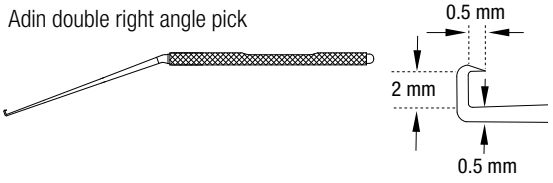


Picks

130386 Jordan oblique posterior pick, regular
130388 slim

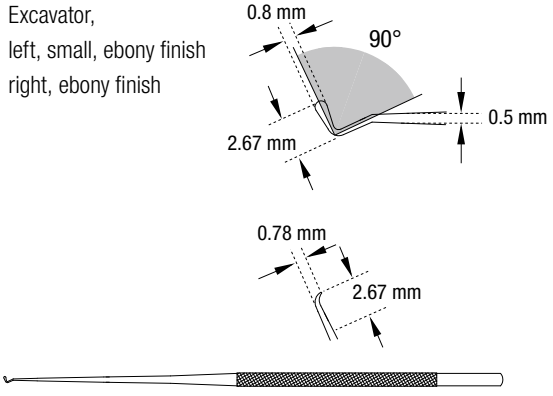


130010-ENT Adin double right angle pick



Excavator

917605 Excavator, left, small, ebony finish
917608 right, ebony finish



Occluder, Crusher

890070 Ocular occluder, 36 pcs. (not shown)

230348 House-type fascia crusher (not shown)

OLYMPUS

Your Vision, Our Future

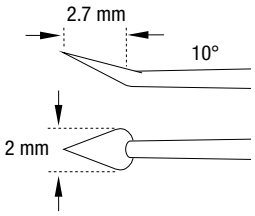
Richards Instruments Sets



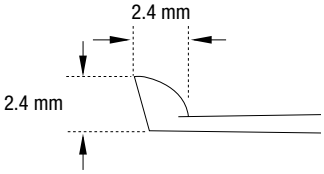
Antoli-Candela Set

Antoli-Candela Instruments (1)

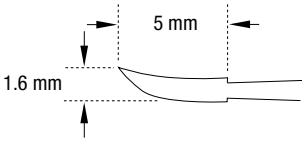
130161 Shea knife,
round, knurled handle,
straight shaft,
blade angled 10°,
165 mm overall length



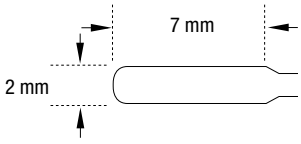
130162 Right angle knife,
round, knurled handle,
straight shaft,
sharp blade,
165 mm overall length



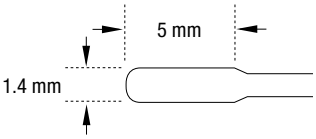
130163 Curved knife,
round, knurled handle,
straight shaft,
sharp blade,
165 mm overall length



130164 Angled elevator blade,
round, knurled handle,
straight shaft,
blade tip angled 15°,
165 mm overall length

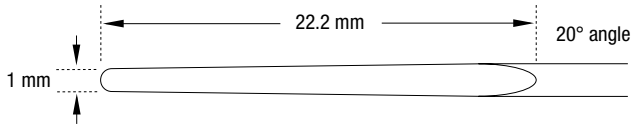


130165 Elevator, small,
round, knurled handle,
straight shaft,
blade tip angled 10°,
165 mm overall length

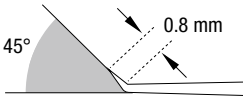


Antoli-Candela Instruments (2)

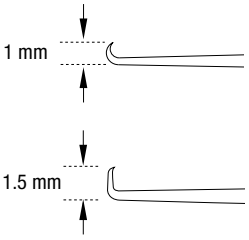
130166 Elevator, right,
round, knurled handle,
shaft angled 20°,
straight tip,
165 mm overall length



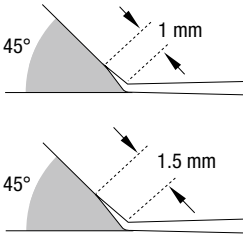
130167 Footplate mucosa pick,
round, knurled handle,
straight shaft,
blade tip angled 45°,
165 mm overall length



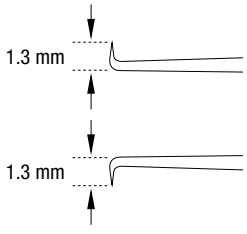
Right angle pick,
round, knurled handle,
straight shaft,
blade tip angled 90°,
165 mm overall length,
130168 1 mm
130169 1.5 mm



Obtuse angle pick, 1 mm,
round, knurled handle,
straight shaft,
blade tip angled 45°,
165 mm overall length,
130170 1 mm
130171 1.5 mm



Angled pick,
round, knurled handle,
shaft angled 10°,
blade tip angled down,
165 mm overall length,
130172 right
130173 left

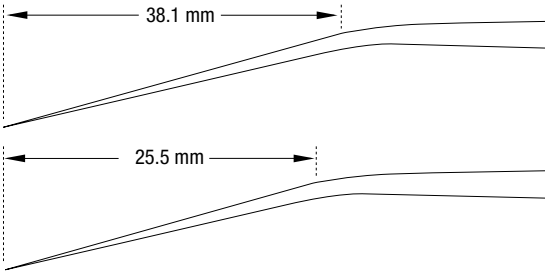


Antoli-Candela Instruments (3)

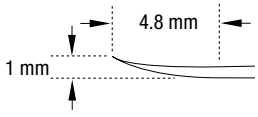
Angled pointed driver,
round, knurled handle,
straight shaft,
blade tip angled 15°, sharp,
165 mm overall length

130174 38.1 mm blade length

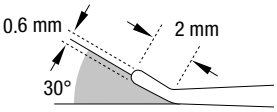
130175 25.4 mm blade length



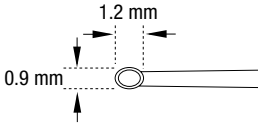
130176 Curved pick,
round, knurled handle,
straight shaft,
curved blade tip,
165 mm overall length



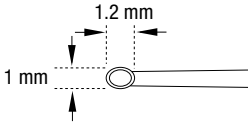
130177 Blunt probe,
round, knurled handle,
straight shaft,
blade tip angled 30°,
165 mm overall length



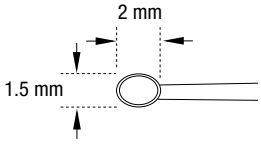
130178 Small window curette,
flat handle,
straight shaft,
165 mm overall length



130179 Middle angle curette,
flat handle,
shaft angled 10°,
165 mm overall length

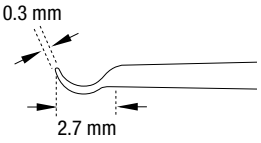


130180 Large curette,
flat handle,
shaft angled 10°,
165 mm overall length

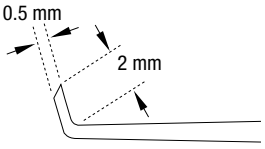


Antoli-Candela Instruments (4)

130181 Elevator,
round, knurled handle,
straight shaft,
cup angled up,
165 mm overall length



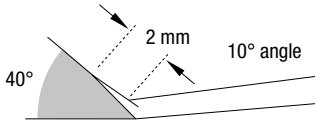
130182 Flat curette,
round, knurled handle,
straight shaft,
blade angled up,
165 mm overall length



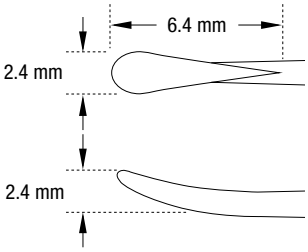
130189 Instrument case,
for Antoli-Candela instruments
(not shown)

Austin Instruments (1)

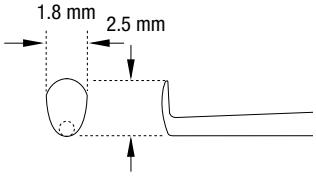
130031 Incising knife elevator, round, knurled handle, shaft angled 10°, blade tip angled 40°, 165 mm overall length



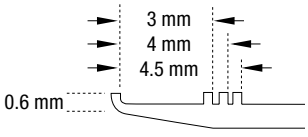
130032 Duckbill knife elevator, round, knurled handle, straight shaft, blunt tip, angled up, 165 mm overall length



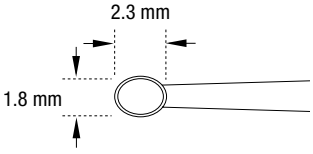
130033 Right angle elevator, round, knurled handle, straight shaft, tip angled up, 165 mm overall length



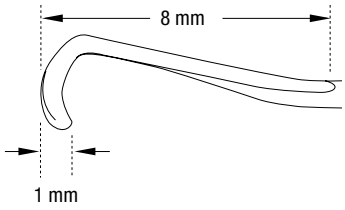
130034 Measuring rod, round, knurled handle, straight shaft, straight tip, 168 mm overall length



130035 Curette, flat handle, shaft angled 10°, 152 mm overall length

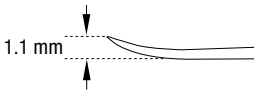


Excavator, round, knurled handle, straight shaft, 165 mm overall length,
130036 right tip
130037-ENT left tip

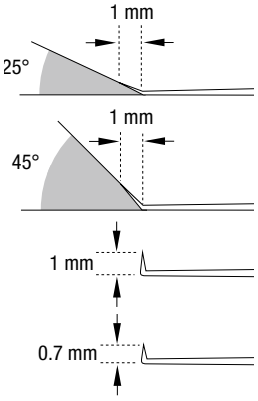


Austin Instruments (2)

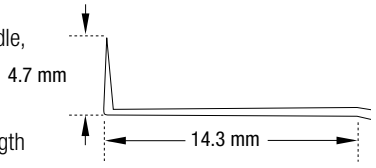
130038 Tympanoplasty pick, round, knurled handle, straight shaft, curved tip, 165 mm overall length



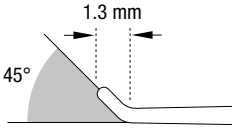
Angled pick, round, knurled handle, straight shaft, 165 mm overall length,
130039 blade tip angled 25°
130040 blade tip angled 45°
130041 long angled tip
130042 short angled tip



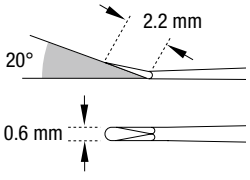
130043 Attic dissector, round, knurled handle, straight shaft, blade tip angled up, 165 mm overall length



130044 Probe, round, knurled handle, straight shaft, blade tip angled 45°, 168 mm overall length

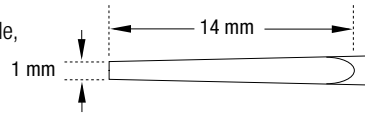


130045 Incudostapedial knife, round, knurled handle, straight shaft, blade tip angled 20°, 168 mm overall length

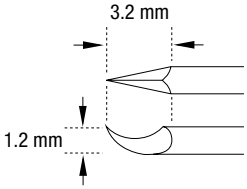


Austin Instruments (3)

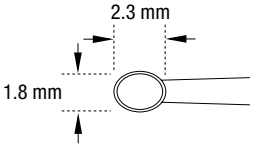
130046 Chisel,
round, knurled handle,
straight shaft,
straight tip,
165 mm overall length



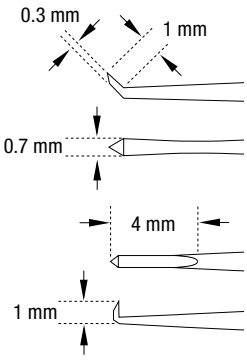
130047 Small sickle knife,
round, knurled handle,
straight shaft,
curved blade,
165 mm overall length



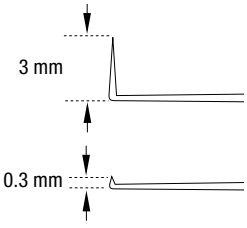
130092 Curette,
round, knurled handle,
shaft angled 10°,
blade tip angled 10°,
152 mm overall length



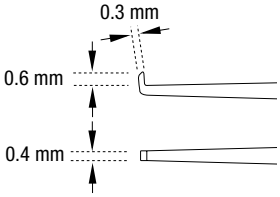
Dissection knife,
round, knurled handle,
straight shaft,
165 mm overall length,
130093 blade tip angled 45°
130094 blade tip angled 90°



Angled pick,
round, knurled handle,
straight shaft,
blade tip angled,
165 mm overall length,
130095 3 mm blade length
130097 0.3 mm blade length



130096 Footplate elevator,
round, knurled handle,
shaft angled 10°,
blade tip angled up,
165 mm overall length



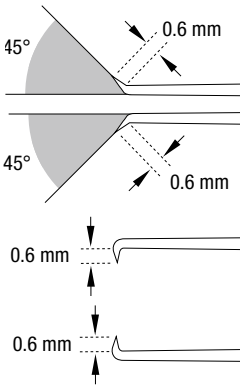
130052 Sterilizing case,
for 22 instruments(not shown)

Farrior Set, Goldman Set

Farrior Instruments (1)

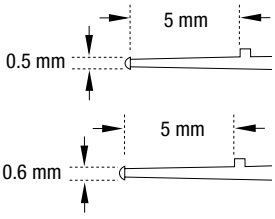
Pick,
round, knurled handle,
shaft angled 30°,
ebony finish

130431 blade tip angled right 45°
130432 blade tip angled left 45°
130433 blade tip angled down
130434 blade tip angled up

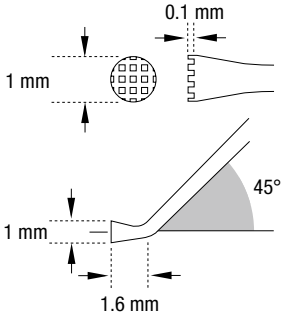


Rasp,
round, knurled handle,
shaft angled 30°,
straight blade tip,
ebony finish

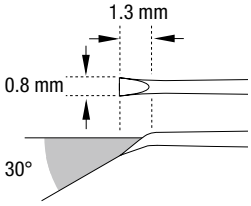
130435 0.5 mm
130436 0.6 mm



130437 Tamper,
round, knurled handle,
shaft angled 30°,
blade tip angled 45°,
ebony finish



130438 Chisel,
round, knurled handle,
shaft angled 30°,
straight blade tip,
ebony finish

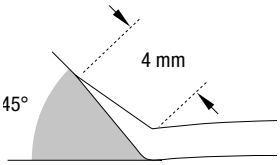


Farrior Instruments (2)

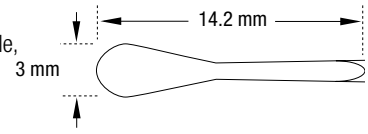
130439 Instrument case,
for Farrior instruments
(not shown)

Goldman Instruments (1)

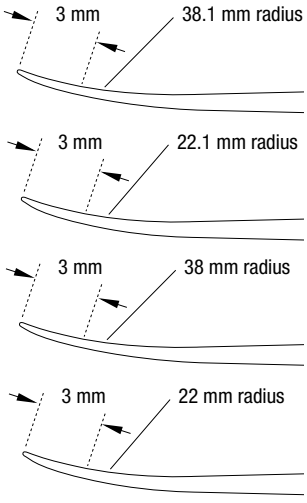
130401 Knife,
round, knurled handle,
straight shaft,
blade tip angled 45°,
ebony finish



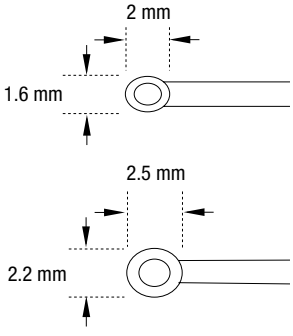
130402 Separator,
round, knurled handle,
straight shaft,
blunt tip,
ebony finish



Curved pick,
round, knurled handle,
straight shaft,
curved tip,
ebony finish,
130403 dull, 38.1 mm tip radius
130404 dull, 22.1 mm tip radius
130405 sharp, 38 mm tip radius
130406 sharp, 22 mm tip radius

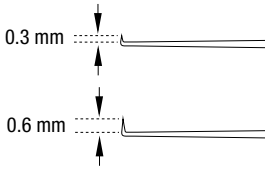


Curette,
round, knurled handle,
straight shaft,
ebony finish,
130407 medium
130408 large

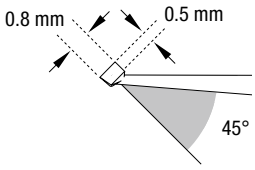


Goldman Instruments (2)

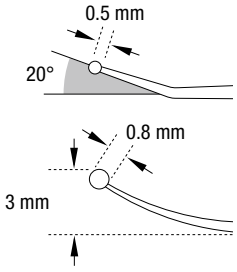
Angled pick,
round, knurled handle,
straight shaft,
blade tip angled 90°,
ebony finish,
130409 small
130410 large



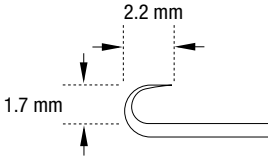
130411 Hoe,
round, knurled handle,
straight shaft,
blade tip angled 45°,
ebony finish



Ball probe,
round, knurled handle,
straight shaft,
ebony finis h,
130413 small, blade tip angled 20°
130414 large, curved tip



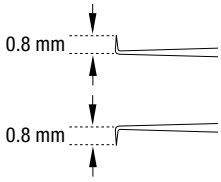
130415 Malleus retractor,
round, knurled handle,
straight shaft,
blade tip angled up and over,
ebony finish



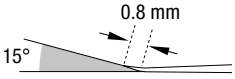
Guilford Instruments (1)

Angled pick,
round, knurled handle,
shaft angled 6°,
140 mm overall length,
ebony finish,

130241 blade tip angled left
130242 blade tip angled right

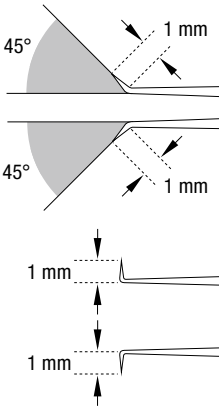


130243 Footplate pick,
round, knurled handle,
straight shaft,
blade tip angled 15°,
140 mm overall length,
ebony finish



Angled pick,
round, knurled handle,
shaft angled 6°,
140 mm overall length,
ebony finish,

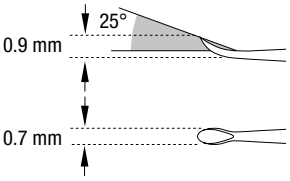
130244 blade tip angled 45°
130245 blade tip angled 45°
130246 blade tip angled 90°, right
130247 blade tip angled 90°, left



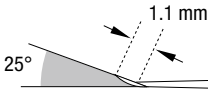
130274 Instrument case,
for Guilford instruments
(not shown)

Guilford Instruments (2)

130248 Mucous membrane knife,
round, knurled handle,
straight shaft,
blade tip angled 25°,
140 mm overall length,
ebony finish

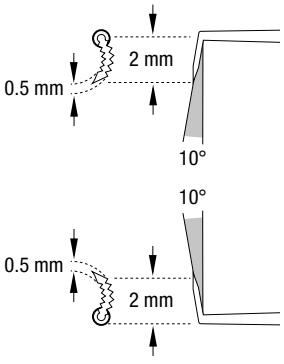


130249 Mucous membrane knife,
round, knurled handle,
straight shaft,
blade tip angled 25°,
140 mm overall length,
ebony finish

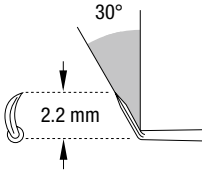


Crurotomy saw knife,
round, knurled handle,
straight shaft,
140 mm overall length,
ebony finish,

130250 blade tip angled 10°, left
130251 blade tip angled 10°, right



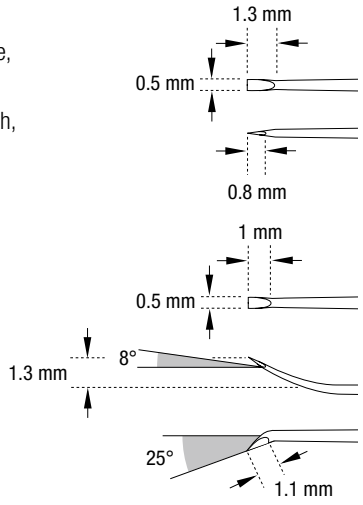
130252 Incudostapedial joint knife,
round, knurled handle,
straight shaft,
blade tip angled 30°,
140 mm overall length,
ebony finish



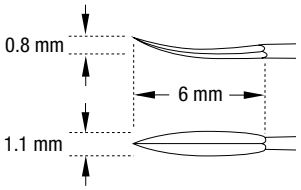
Guilford Instruments (3)

Chisel,
round, knurled handle,
shaft angled 6°,
140 mm overall length,
ebony finish,

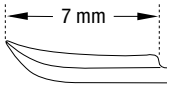
130253 stright blade tip
130254 blade tip angled 8°
130255 blade tip angled 25°



130256 Stapedius tendon knife,
round, knurled handle,
straight shaft,
curved blade,
140 mm overall length,
ebony finish

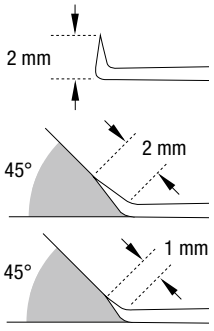


130257 Stapes knife,
round, knurled handle,
straight shaft,
curved blade,
140 mm overall length,
ebony finish

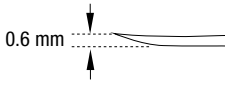


Angled pick,
round, knurled handle,
straight shaft,
140 mm overall length,
ebony finish,

130258 blade tip angled 90°,
2 mm blade length
130259 blade tip angled 45°,
2 mm blade length
130260 blade tip angled 45°,
1 mm blade length



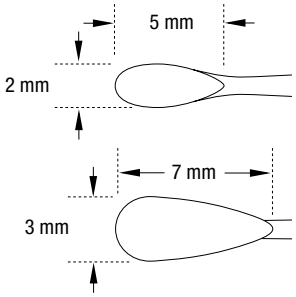
130261 Curved mobilization pick,
round, knurled handle,
straight shaft,
curved blade tip,
140 mm overall length, ebony finish



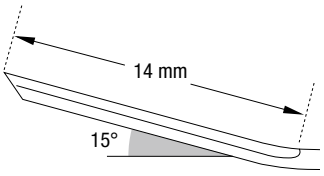
Guilford Instruments (4)

Duckbill elevator,
round, knurled handle,
straight shaft,
blunt blade tip,
140 mm overall length
ebony finish,

130262 small
130263 large

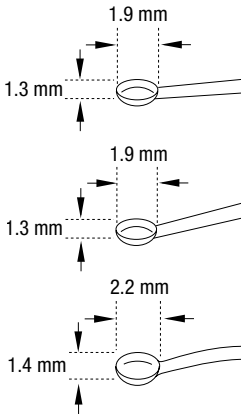


130264 Annulus elevator,
round, knurled handle,
straight shaft,
blade tip angled 15°,
140 mm overall length,
ebony finish



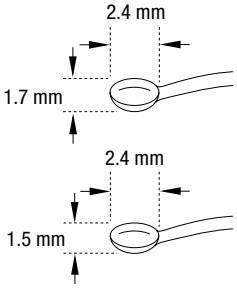
Curette,
round, knurled handle,
straight shaft,
140 mm overall length
ebony finish,

130265 straight, small
130266 angled, small
130267 angled medium

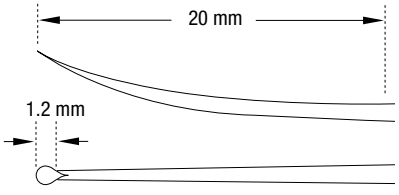


Curette,
round, knurled handle,
goose-neck shaft,
140 mm overall length
ebony finish,

130268 large
130269 large, cut up



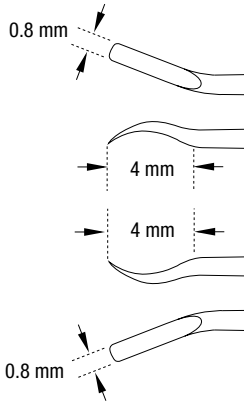
130270 Mucous membrane knife,
round, knurled handle,
straight shaft,
straight blade tip,
140 mm overall length,
ebony finish



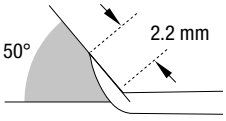
Hough Set

Hough Instruments (1)

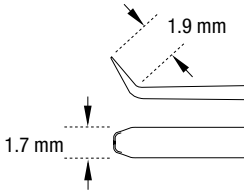
Curette,
round, knurled handle,
straight shaft,
152 mm overall length,
ebony finish,
130101 blade tip curved right
130102 blade tip curved left



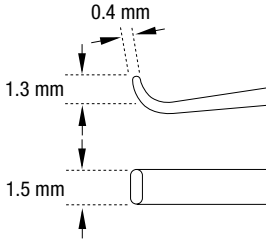
130103 Stapes knife,
round, knurled handle,
straight shaft,
blade tip angled 50°,
152 mm overall length,
ebony finish



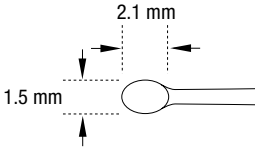
130104 Annulus elevator,
flat handle,
bayonet shaft,
blunt blade tip, angled up,
165 mm overall length,
ebony finish



130105 Spatula,
round, knurled handle,
straight shaft,
blunt blade tip,
152 mm overall length,
ebony finish

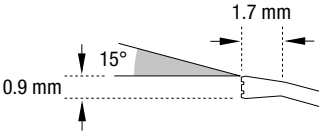


Curette,
flat handle,
straight shaft,
152 mm overall length,
ebony finish,
130106 small
130107 large

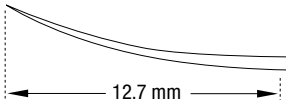


Hough Instruments (2)

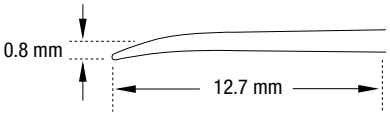
130108 Derlacki mobilizer,
round, knurled handle,
shaft angled 10°,
blade tip angled 15°,
165 mm overall length,
ebony finish



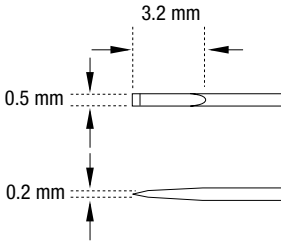
130109 Big curve pick,
round, knurled handle,
straight shaft,
curved blade tip,
152 mm overall length,
ebony finish



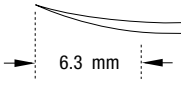
130110 Gouge,
round, knurled handle,
straight shaft,
curved blade tip,
152 mm overall length,
ebony finish



130111 Chisel,
round, knurled handle,
shaft angled 10°,
straight blade tip,
152 mm overall length,
ebony finish



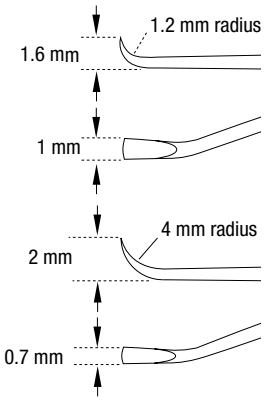
130112 Gentle curve pick,
round, knurled handle,
straight shaft,
curved blade tip,
152 mm overall length,
ebony finish



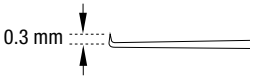
Hough Instruments (3)

Whirleybird,
round, knurled handle,
straight shaft,
152 mm overall length,
ebony finish,

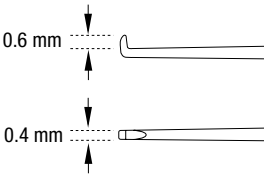
130113 large right tip
130114 large left tip
130115 small right tip
130116 small left tip



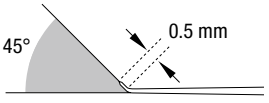
130117 Angled pick,
round, knurled handle,
shaft angled 15°,
angled blade tip,
152 mm overall length,
ebony finish



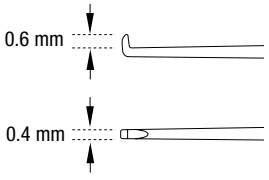
130118 Excavator,
round, knurled handle,
shaft angled 15°,
blade tip angled up,
152 mm overall length,
ebony finish



130119 Angled pick,
round, knurled handle,
shaft angled 15°,
blade tip angled 45°,
152 mm overall length,
ebony finish



130120 Tiny tendon knife,
round, knurled handle,
straight shaft,
straight blade tip,
152 mm overall length,
ebony finish



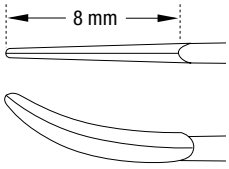
Complete House Set

130557 House set

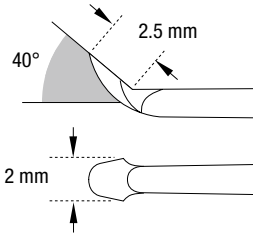
Delivery includes:
knives 130561/-62/-69, 230340,
separators 130563/-64,
needles 130565/-66/-70, elevator 130567, curette 130568,
measuring rods 130571/-72/-73, Barbara 130574,
hooks 130575/-76/-77/-78, 230336/-37,
chisel 130580, wire guide 130581, pick 230331,
House Crabtree 550738, dissector Crabtree 230332,
stapes 230333, narrow 230334, weapons 230336/-37

Components House Set (1)

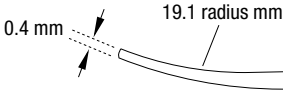
130561 Sickle knife, no. 1,
round, knurled handle,
straight shaft,
straight blade tip,
vapor blast finish



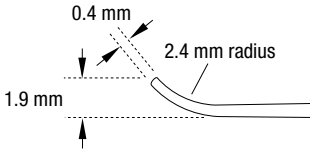
130562 Lancet knife, no. 2,
round, knurled handle,
straight shaft,
blade tip angled 40°,
vapor blast finish



130563 Wide separator,
flat handle,
bayonet shaft,
blunt tip,
vapor blast finish

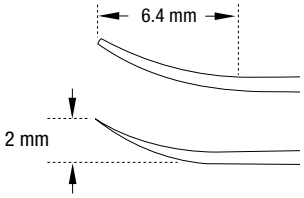


130564 Narrow separator,
flat handle,
bayonet shaft,
blunt tip,
vapor blast finish

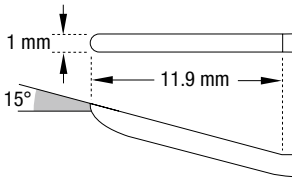


Components House Set (2)

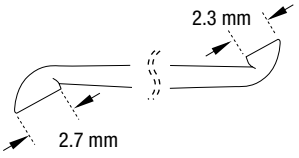
Rosen needle,
round, knurled handle,
straight shaft,
vapor blast finish
130565 blunt tip
130566 sharp tip



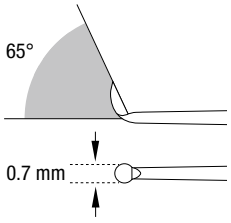
130567 Stapes elevator,
round, knurled handle,
straight shaft,
blade tip angled 15°,
vapor blast finish



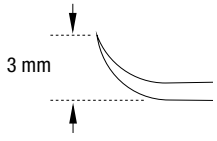
130568 Stapes curette,
flat handle,
straight shaft,
tip cuts up and down,
vapor blast finish



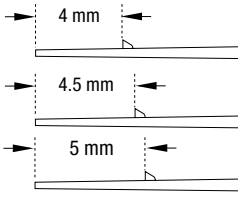
130569 Joint knife,
round, knurled handle,
straight shaft,
blade tip angled 65°,
vapor blast finish



130570 Heavy needle,
round, knurled handle,
straight shaft,
curved blade tip,
vapor blast finish

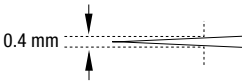


Measuring rod,
round, knurled handle,
straight shaft,
straight tip,
vapor blast finish
130571 4 mm
130572 4.5 mm
130573 5 mm

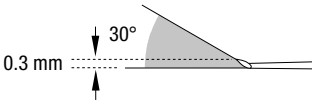


Components House Set (3)

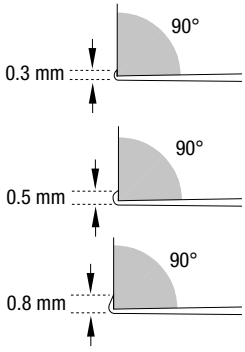
130574 Barbara,
round, knurled handle,
straight shaft,
straight tip,
vapor blast finish



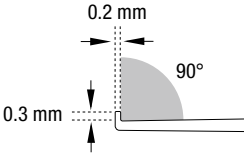
130575 Obtuse hook,
round, knurled handle,
shaft angled 30°,
straight tip,
vapor blast finish



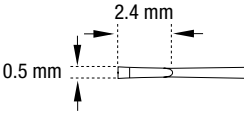
Hook,
round, knurled handle,
straight shaft,
blade tip angled 90°,
vapor blast finish,
130576 0.3 mm
130577 0.5 mm
130578 0.8 mm



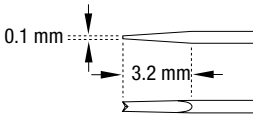
130579 Excavator,
round, knurled handle,
straight shaft,
blade tip angled 90°,
vapor blast finish



130580 Chisel,
round, knurled handle,
straight shaft,
straight tip,
vapor blast finish



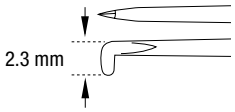
130581 Wire guide,
round, knurled handle,
straight shaft,
straight tip,
vapor blast finish



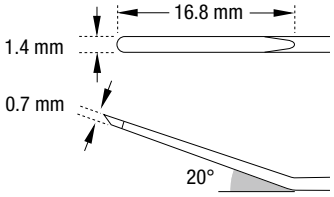
130559 Instrument case,
for House instruments
(not shown)

Components House Set (4)

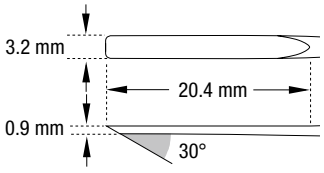
230332 Dissector Crabtree,
hexagonal handle,
straight shaft,
blade tip angled 90°,
vapor blast finish



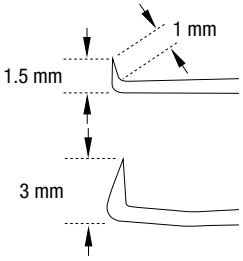
230333 Insulated stapes,
straight,
octagonal handle,
angled shaft,
vapor blast finish



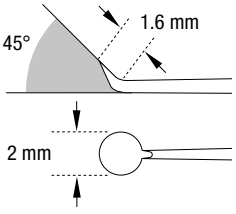
230334 Narrow,
octagonal handle,
straight shaft,
blade tip angled 30°,
electropolish finish



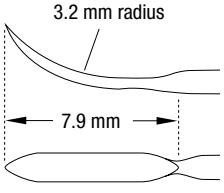
Hook,
octagonal handle,
straight shaft,
angled tip,
satin finish,
230336 1.5 mm
230337 3 mm



Sheehy weapon,
octagonal handle,
straight shaft,
angled blade tip,
satin finish,
230338 2 mm
230339 2.4 mm



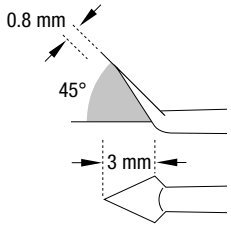
230340 Sheehy flap knife,
hexagonal handle,
straight shaft,
curved blade tip,
vapor blast finish



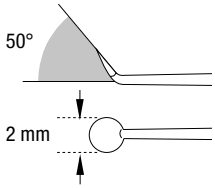
Jordan Set, McGee Set

Jordan Instruments (1)

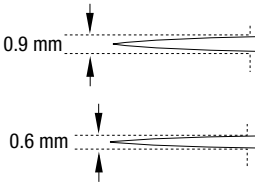
130381 Angular knife,
round, knurled handle,
straight shaft,
blade tip angled 45°,
174 mm overall length,
ebony finish



130382 Oval knife,
round, knurled handle,
straight shaft,
blade tip angled 50°,
174 mm overall length,
ebony finish

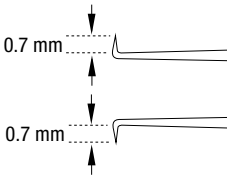


Pick,
round, knurled handle,
bayonet shaft,
straight blade tip,
165 mm overall length,
ebony finish,
130383 heavy, 0.9 mm
130384 slim, 0.6 mm

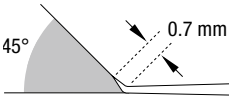


Jordan Instruments (2)

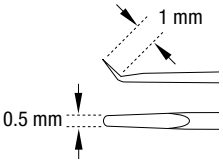
Angled pick,
round, knurled handle,
bayonet shaft,
angled blade tip,
165 mm overall length,
ebony finish,
130389 tip angled right
130390 tip angled down
130391 tip angled left



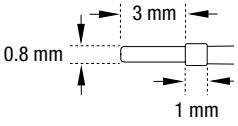
130392 Slim pick,
round, knurled handle,
bayonet shaft,
blade tip angled 45°,
165 mm overall length,
ebony finish



130393 Capsule knife,
round, knurled handle,
bayonet shaft,
blade tip angled 45°,
165 mm overall length,
ebony finish



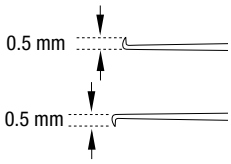
130394 Measuring rod,
round, knurled handle,
bayonet shaft,
straight blade tip,
166 mm overall length,
ebony finish



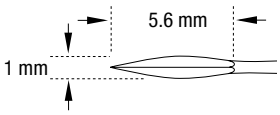
McGee Instruments (1)

Footplate hook,
round, knurled handle,
shaft angled 20°,
blade tip angled 90°,
154 mm overall length,
ebony finish,

130441 anterior
130442 posterior

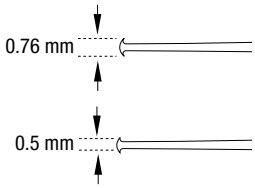


130443 Double bladed knife,
round, knurled handle,
shaft angled 20°,
straight blade tip,
154 mm overall length,
ebony finish

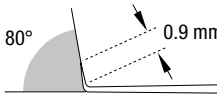


Pick,
round, knurled handle,
shaft angled 20°,
straight blade tip,
157 mm overall length,
ebony finish,

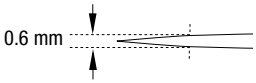
130444 0.76 mm
130445 0.5 mm



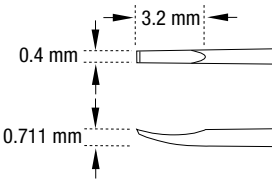
130446 Angled pick,
round, knurled handle,
shaft angled 20°,
blade tip angled 20°,
157 mm overall length,
ebony finish



130447 Straight pick,
round, knurled handle,
shaft angled 20°,
straight blade tip,
154 mm overall length,
ebony finish

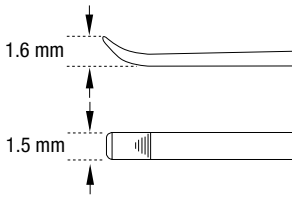


130448 Flat chisel,
round, knurled handle,
shaft angled 20°,
blade tip slightly angled,
165 mm overall length,
ebony finish

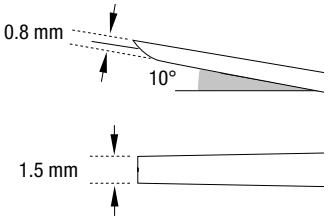


McGee Instruments (2)

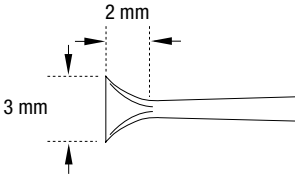
130449 Elevator,
flat handle,
bayonet shaft,
blunt tip, angled up,
158 mm overall length,
ebony finish



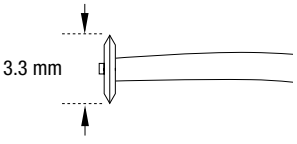
130450 Separator,
round, knurled handle,
straight shaft,
blade tip angled 10°,
156 mm overall length,
ebony finish



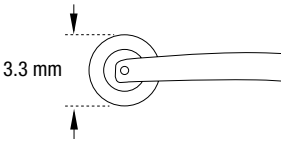
130451 Anterior canal elevator,
round, knurled handle,
straight shaft,
blunt tip, angled up,
155 mm overall length,
ebony finish



130452 Roller knife, transverse,
flat handle,
straight shaft,
straight blade tip,
158 mm overall length,
ebony finish



130453 Roller knife, sagittal,
flat handle,
straight shaft,
straight blade tip,
158 mm overall length,
ebony finish

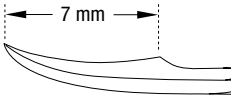


130454 Instrument case,
for Mcgee instruments
(not shown)

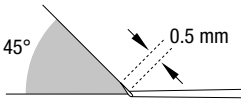
Ronis Set, Scheer Set

Ronis Instruments (1)

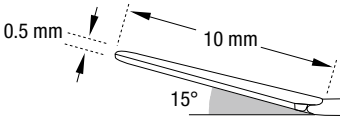
130351 Flap knife,
round, knurled handle,
straight shaft,
straight blade tip,
152 mm overall length,
ebony finish



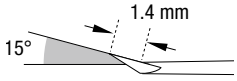
130352 Periosteal knife,
round, knurled handle,
straight shaft,
blade tip angled 45°,
152 mm overall length,
ebony finish



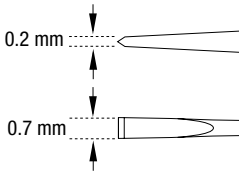
130353 Elevator,
round, knurled handle,
straight shaft,
blade tip angled up 15°,
152 mm overall length,
ebony finish



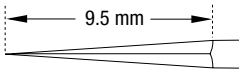
130354 Joint separator,
round, knurled handle,
straight shaft,
blade tip angled 15°,
152 mm overall length,
ebony finish



130355 Chisel,
round, knurled handle,
straight shaft,
straight blade tip,
152 mm overall length,
ebony finish

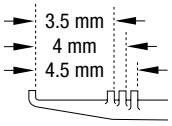


130356 Perforator,
round, knurled handle,
straight shaft,
straight blade tip,
152 mm overall length,
ebony finish

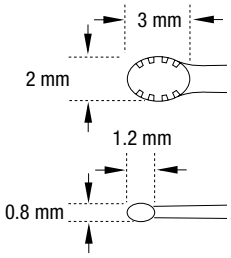


Ronis Instruments (2)

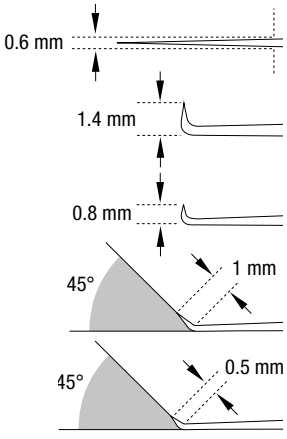
130357 Measuring rod,
round, knurled handle,
straight shaft,
152 mm overall length,
ebony finish



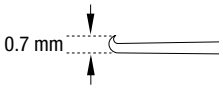
Curette,
flat handle,
152 mm overall length,
ebony finish,
130358 shaft angled, tip 2 x 2.8 mm
130359 shaft angled 10°, tip 0.8 x 1.2 mm



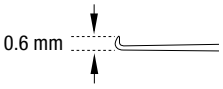
Pick,
round, knurled handle,
straight shaft,
152 mm overall length,
ebony finish,
130360 straight blade tip
130361 angled blade tip, 1.4 mm
130362 angled blade tip, 0.8 mm
130363 blade tip angled 45°, 1 mm
130364 blade tip angled 45°, 0.5 mm



130365 Fine right angle hook,
round, knurled handle,
straight shaft,
90° hook,
152 mm overall length,
ebony finish

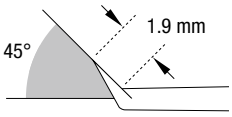


130366 Fine hook,
round, knurled handle,
straight shaft,
angled blade tip,
152 mm overall length,
ebony finish

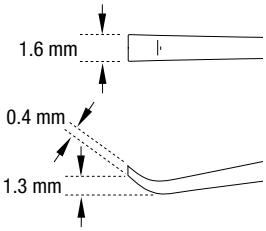


Scheer Instruments (1)

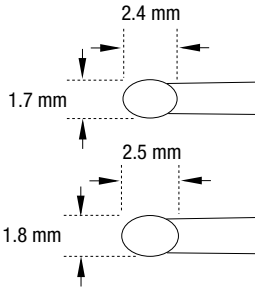
130302 Knife and elevator,
round, knurled handle,
straight shaft,
blade tip angled 45°,
161 mm overall length,
ebony finish



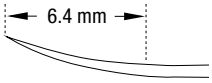
130303 Elevator,
round, knurled handle,
straight shaft,
blunt tip, angled up,
161 mm overall length,
ebony finish



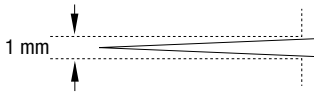
Curette,
flat handle,
straight shaft,
168 mm overall length,
ebony finish,
130304 tip 1.7 x 2.4 mm
130305 tip 1.8 x 2.5 mm



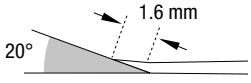
130306 45° angle pick,
round, knurled handle,
straight shaft,
blade tip angled up,
161 mm overall length,
ebony finish



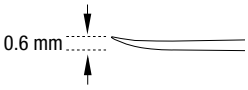
130307 Plastic tube,
round, knurled handle,
straight shaft,
straight blade tip,
161 mm overall length,
ebony finish



130308 Footplate pick,
round, knurled handle,
straight shaft,
blade tip angled 20°,
161 mm overall length,
ebony finish

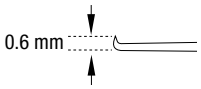


130309 Gelfoam placer,
round, knurled handle,
straight shaft,
curved blade tip,
161 mm overall length,
ebony finish

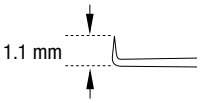


Scheer Instruments (2)

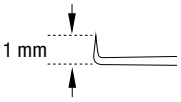
130310 Fine right-angle pick,
round, knurled handle,
straight shaft,
angled blade tip,
162 mm overall length,
ebony finish



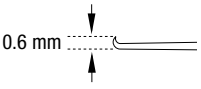
130311 Crura breaker,
round, knurled handle,
straight shaft,
angled blade tip,
162 mm overall length,
ebony finish



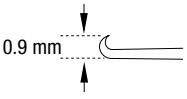
130312 Pick, round, knurled handle,
straight shaft,
angled blade tip,
162 mm overall length,
ebony finish



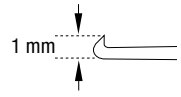
130313 Hook (delicate),
round, knurled handle,
straight shaft,
blade tip curved up,
161 mm overall length,
ebony finish



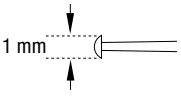
130316 Firm hook,
round, knurled handle,
straight shaft,
blade tip curved up,
161 mm overall length,
ebony finish



130317 Firm pick,
round, knurled handle,
straight shaft,
angled blade tip,
162 mm overall length,
ebony finish



130318 Oval window rasp,
round, knurled handle,
straight shaft,
straight blade tip,
161 mm overall length,
ebony finish



130324 Instrument case,
for 18 Scheer instruments (not shown)

Schuknecht Set, Shea Set

Complete Schuknecht Set

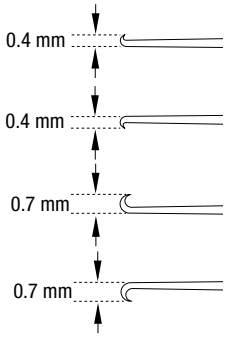
130225 Complete set

Delivery includes:
Hooks 130201/-02/-03/-04/-06, elevators 130205/-13/-14, pick 130207, spatula 130208, knives 130211/-12

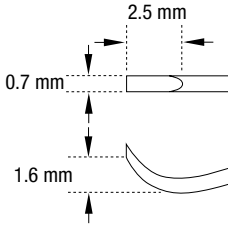
Components Schuknecht Set (1)

Hook,
round, knurled handle,
shaft angled 20°,
154 mm overall length,
ebony finish,

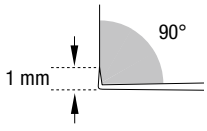
130201 0.4 mm tip, angled up
130202 0.4 mm tip, angled down
130203 0.7 mm tip, angled up
130204 0.7 mm tip, angled down



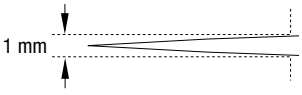
130205 Oval window elevator,
round, knurled handle,
shaft angled 20°,
curved blade tip,
154 mm overall length,
ebony finish



130206 Hook,
round, knurled handle,
shaft angled 20°,
tip angled 90°,
154 mm overall length,
ebony finish

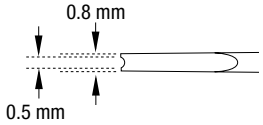


130207 Pick,
round, knurled handle,
shaft angled 20°,
straight tip,
154 mm overall length,
ebony finish



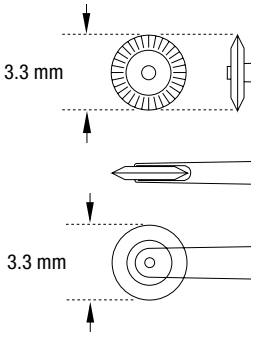
Components Schuknecht Set (2)

130208 Spatula,
round, knurled handle,
shaft angled 20°,
blunt tip,
154 mm overall length,
ebony finish



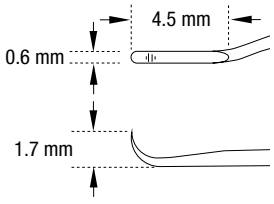
Roller knife,
flat handle,
shaft angled 20°,
154 mm overall length,
ebony finish,

130211 transverse, straight tip
130212 sagittal, sharp tip



Modified Hough elevator,
round, knurled handle,
shaft angled 20°,
154 mm overall length,
ebony finish,

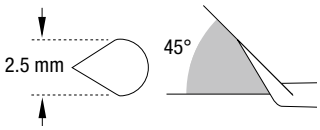
130213 left tip
130214 right tip



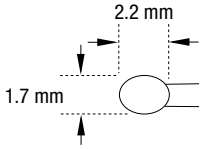
130224 Instrument case,
for 12 Schuknecht instruments
(not shown)

Shea Instruments (1)

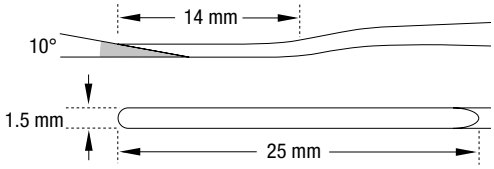
130015 Incising knife,
round, knurled handle,
shaft angled 10°,
blade tip angled 45°,
174 mm overall length,
ebony finish



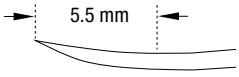
130016-ENT Curette,
flat handle,
shaft angled 10°,
straight tip,
146 mm overall length,
ebony finish



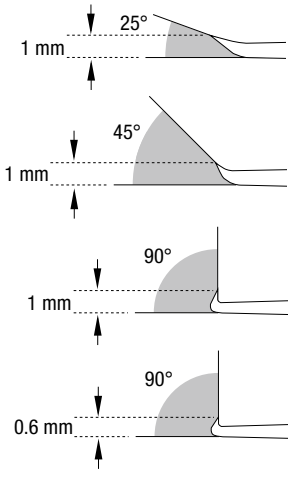
Elevator,
round, knurled handle,
straight shaft,
174 mm overall length,
ebony finish,
130017 tip angled left 10°
130018 tip angled right 10°



130019 Pick,
round, knurled handle,
straight shaft,
curved tip,
174 mm overall length,
ebony finish

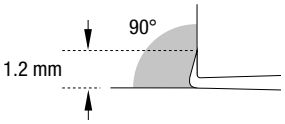


Fenestra hook,
round, knurled handle,
straight shaft,
174 mm overall length,
ebony finish,
130020 tip angled up 25°
130021-ENT tip angled up 45°
130022 tip angled up 90°, 1 mm
130023 tip angled up 90°, 0.6 mm

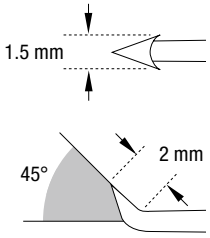


Shea Instruments (2)

130024 Large angled pick,
round, knurled handle,
straight shaft,
angled tip,
174 mm overall length,
ebony finish



130025-ENT Anterior crurotomy knife,
round, knurled handle,
straight shaft,
blade tip angled 45°,
174 mm overall length,
ebony finish



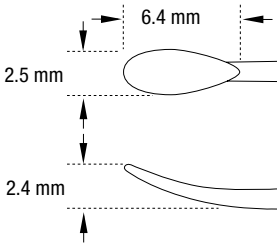
130028 Instrument case,
for 11 Shea instruments
(not shown)

Shea/Robertson Set

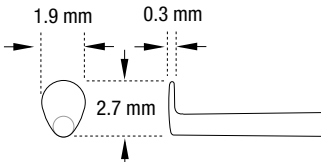
Posterior Fossa Set

Shea/Robertson Instruments (1)

130851 Duckbill elevator,
round, knurled handle,
straight shaft,
curved blunt tip,
ebony finish

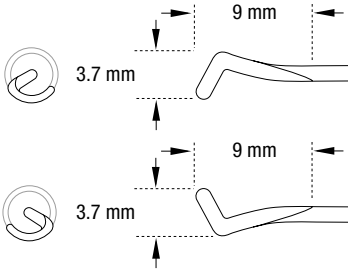


130852 Reverse elevator,
round, knurled handle,
straight shaft,
tip angled 90°,
ebony finish

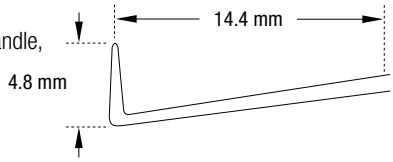


Excavator,
round, knurled handle,
straight shaft,
tip angled 90°,
ebony finish

130853 right
130854 left



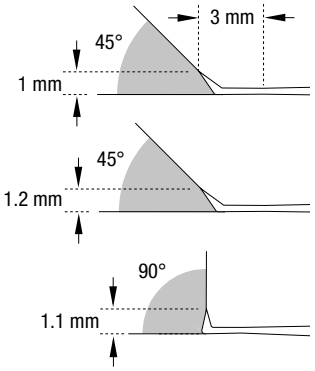
130855 Attic dissector,
round, knurled handle,
straight shaft,
tip angled 90°,
ebony finish



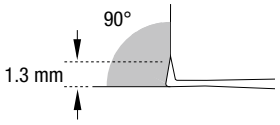
Shea/Robertson Instruments (2)

Pick,
round, knurled handle,
straight shaft,
ebony finish

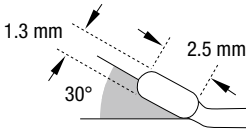
130856 sharp, tip angled 45°
130857 blunt, tip angled 45°
130858 sharp, tip angled 90°



130859 Probe,
round, knurled handle,
straight shaft,
tip angled 90°,
ebony finish



130860 Middle ear mirror,
round, knurled handle,
straight shaft,
angled mirror tip, 1.3 x 3.2 mm,
vapor blast finish



Nasal Specula 219
Flexible Tension Arm 223
Suction Tubes 225
Nasal Dressing Forceps 227
Nasal Polyp Snares 229
Scissors 231
Needle Holders 235
Micro Instruments 237
Forceps with Ring Handle 239
Thumb Forceps 243
Septoplasty and Rhinoplasty Forceps 245
Elevators, Raspatories 249
Nasal Rasps, Nasal Saws 253
Chisels, Gouges, Osteotomes 257
Nasal Knives 261
Retractors 263
Jigs and Tools 267
Rhinoplasty Surgery Set Advanced Rhinoplasty Instruments 269

EXPLORENT INSTRUMENTS

Manufacturer
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

Nasal Specula





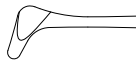


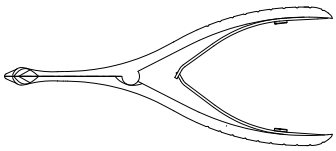
- Specula in standard design or with very thin blades
- Self-retaining and set-screw models
- Ebony-finished models

EXPLORENT

Nasal Specula

WT140000 Nasal speculum, acc. to Tieck-Halle, for babies, size 17.5 x 130





Nasal speculum, acc. to Goldsmith,

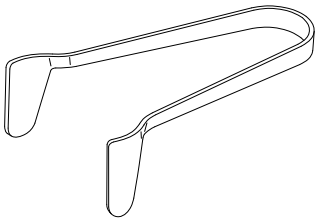
WT141301 size S

WT141302 size M

WT141303 size L



6.5 cm, 20 mm blade length

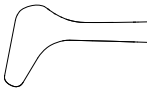


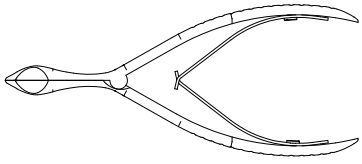
Nasal speculum, acc. to Vienna,

WT141601 size 27 x 140

WT141602 size 30.5 x 140

WT141603 size 32.5 x 140

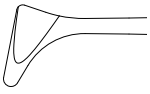


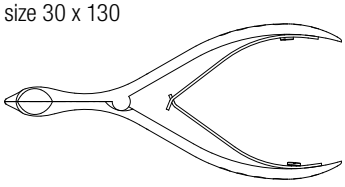


Nasal speculum, acc. to Vienna, light-weight,

WT141401 size 27 x 130

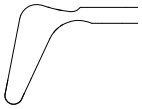
WT141402 size 30 x 130



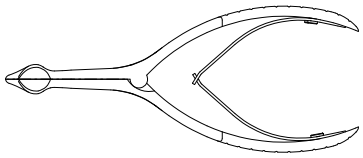


Hartmann Nasal Specula

WT143001 Nasal speculum, acc. to Hartmann, for adults, size 33.5 x 135



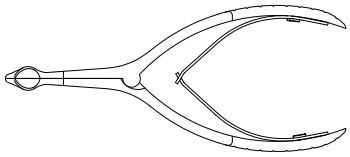
13.5 cm, 33.5 mm blade length



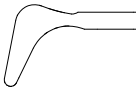
WT143002 Nasal speculum, acc. to Hartmann, for children, size 27 x 130

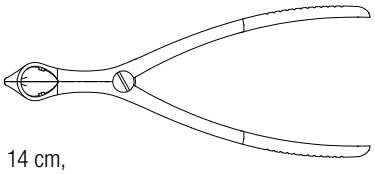


13 cm, 27 mm blade length



WT143500 Nasal speculum, acc. to Hartmann, light-weight, size 33.5 x 140





14 cm,
33.5 mm blade length

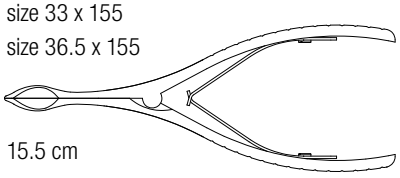
Nasal speculum, acc. to Hartmann-Halle,

WT141001 size 29 x 155

WT141002 size 33 x 155

WT141003 size 36.5 x 155





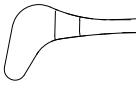
15.5 cm

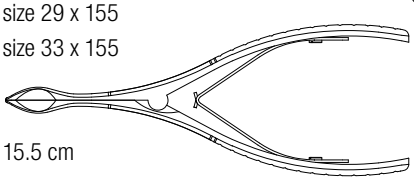
Nasal speculum, acc. to Hartmann,

WT141501 size 25 x 155

WT141502 size 29 x 155

WT141503 size 33 x 155





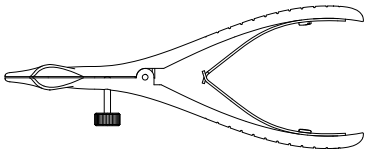
15.5 cm

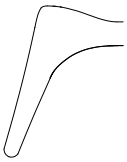
Size =blade length [mm] x total length [mm]

Nasal Specula
(cont.)

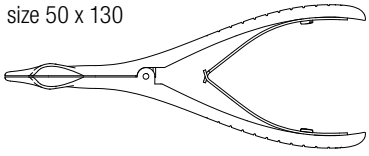
Cottle Nasal Specula

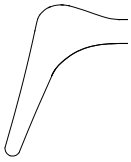
WT400000 Nasal speculum, acc. to Cottle, with set screw, size 50 x 130





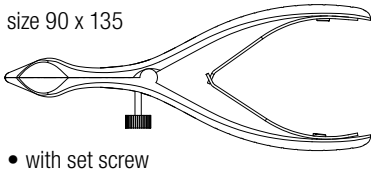
WT400010 Nasal speculum, acc. to Cottle, size 50 x 130

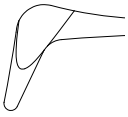




Nasal speculum, acc. to Cottle,

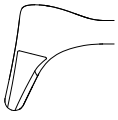
WT400001	size 35 x 135
WT400002	size 50 x 135
WT400003	size 75 x 135
WT400004	size 90 x 135





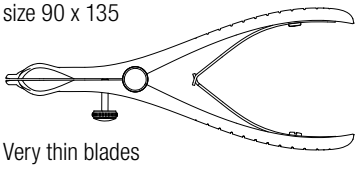
- with set screw

WT400011 Spare spring, for specula WT400001-04



Nasal speculum, acc. to Cottle, black, with set screw,

WT400501	size 35 x 135
WT400502	size 45 x 135
WT400503	size 55 x 135
WT400504	size 70 x 135
WT400505	size 90 x 135



Very thin blades

Cottle Nasal Specula (cont.)

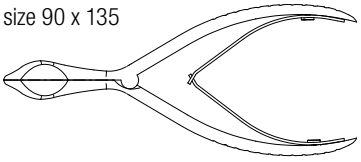
WT400511 Spare screw, for adjustment of specula WT400501-04

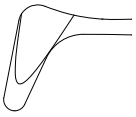
WT400512 Spare screw, for specula WT400501-04 (not shown)

Killian Nasal Specula

Nasal speculum, acc. to Killian,

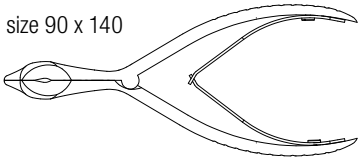
WT142001	size 35 x 135
WT142002	size 50 x 135
WT142003	size 75 x 135
WT142004	size 90 x 135

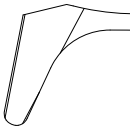




Nasal speculum, acc. to Killian-Struycken,

WT142240	size 40 x 140
WT142255	size 55 x 140
WT142275	size 75 x 140
WT142290	size 90 x 140





Size =blade length [mm] x total length [mm]

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Flexible Tension Arm

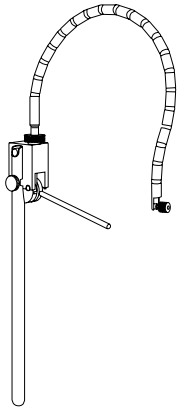


- Complete with holding rod for attachment to operating table
- Optional rotating clamp
- Compatible specula and retractors

EXPLORENT

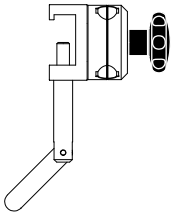
Flexible Tension Arm

WT218800 Articulated arm,
flexible,
with holding rod



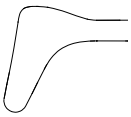
WT218801 Clamp socket,
for articulated arm WT218800

Attachable to operating table

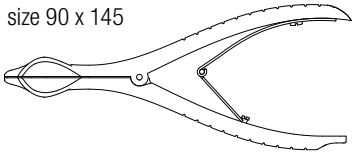


Instruments for Flexible Tension Arm

Nasal speculum,
acc. to Cottle-Masing,
for articulated arm,



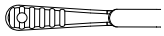
WT497635 size 35 x 145
WT497650 size 50 x 145
WT497675 size 75 x 145
WT497690 size 90 x 145

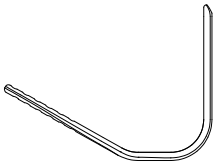


Size = blade length [mm] x length [mm]

- With set screw and adaption for articulated arm

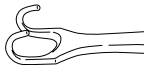
WT497300 Retractor,
acc. to Aufricht,
for articulated arm,
size 43 x 7 60





blade..... 43 x 7 mm
length .....60 mm

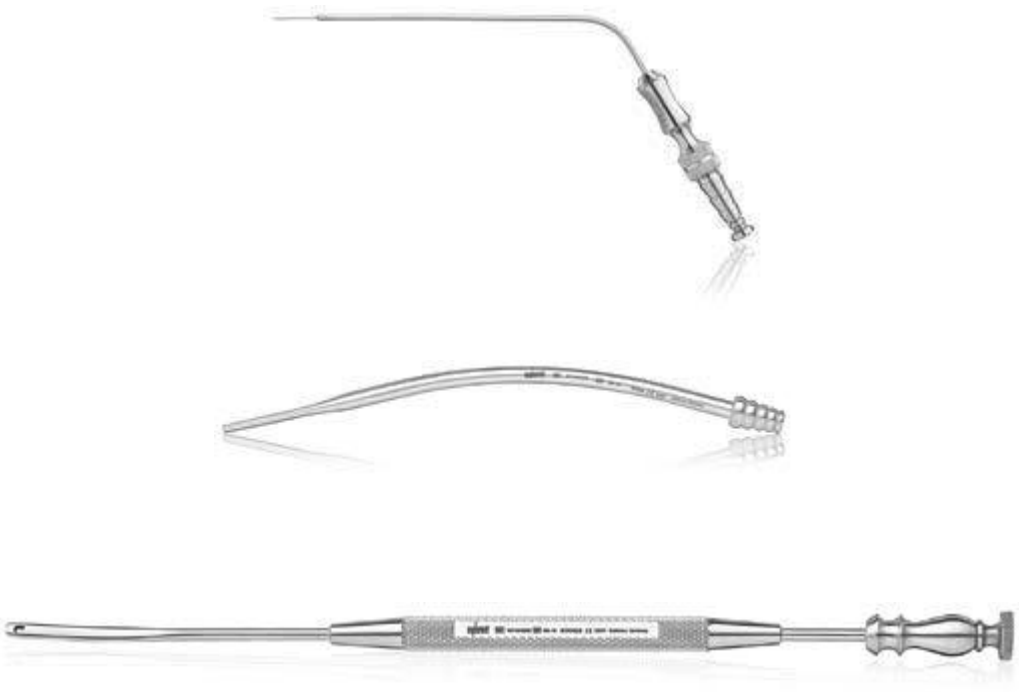
WT497400 Retractor,
acc. to Aufricht,
for articulated arm,
2 prongs, size 12 x 16





width..... 12 mm
length .....60 mm

Suction Tubes

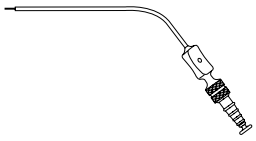


EXPLORENT

- Angled and curved models

Suction Tubes

Suction tube, acc. to Frazier,
with cut-off,
WT210012 size 4.0 x 90
WT210015 size 5.0 x 90



- Stainless steel

Size = diameter [mm] x working length [mm]

WT458005 Suction tube,
curved, flat tip,
size 5 x 160



Size = diameter [mm] x total length [mm]

Cotton Applicators

WT312116 Cotton applicator,
triangular, serrated,
size 1.5 x 160



Size = diameter [mm] x total length [mm]

Suction Elevators

Size = diameter [mm] x total length [mm]

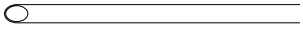
WT405800 Elevator, acc. to Gorney,
with suction channel,
size 3 x 190

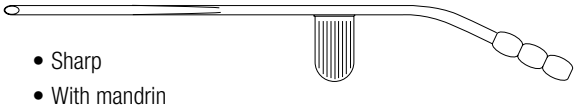


- With mandrin

WT000821 Mandrin, for elevator WT405800, size 3.0 x 190 (not shown)

WT460000 Elevator,
acc. to Guillen,
with suction channel,
bayonet-shaped, size 4.0 x 210



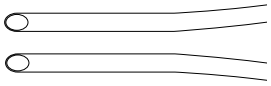


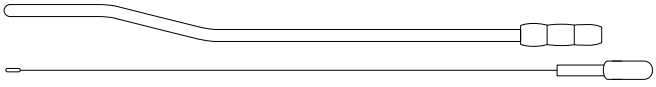
- Sharp
- With mandrin

WT460001 Mandrin,
for suction elevator WT460000



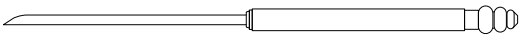
Elevator, acc. to Guillen,
with suction channel,
bayonet-shaped,
WT460100 curved left, size 4.0 x 220
WT460200 curved right, size 4.0 x 220





- Sharp
- With mandrin

WT408600 Elevator,
with suction channel,
sharp, size 2.5 x 200



WT000883 Suction elevator,
acc. to Ries,
size 3.0 x 210



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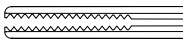
Nasal Dressing Forceps



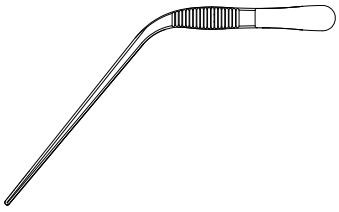
EXPLORENT

Nasal Dressing Forceps (Thumb Forceps Type)

WT132013 Thumb forceps, acc. to Troeltsch (Wilde), size 130

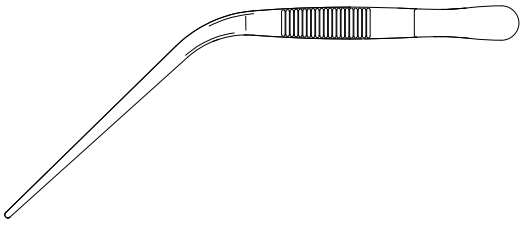


- 75 mm working length
- Serrated, angular



WT132016 Thumb forceps, acc. to Troeltsch, size 160
WT132018 size 180

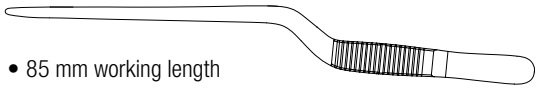




- Working length
  - WT132016 ..... 80 mm
  - WT132018 ..... 100 mm
- serrated, angular

WT132316 Thumb forceps, acc. to Lucae, bayonet shaped, size 160





- 85 mm working length
- Serrated, slender

WT132319 Thumb forceps, acc. to Gruenwald, bayonet shaped, size 190



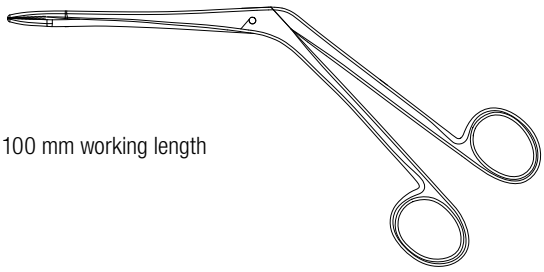


- 90 mm working length
- Serrated

Nasal Dressing Forceps

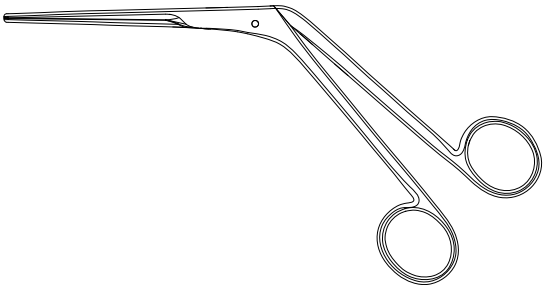
WT322021 Dressing forceps, acc. to Hartmann, slender, size 205





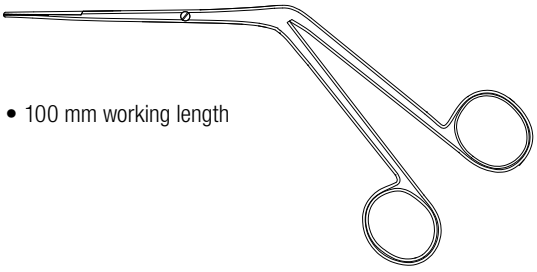
100 mm working length

WT322500 Dressing forceps, acc. to Lubet-Barbon, size 210



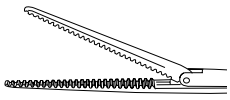
WT323500 Dressing forceps, acc. to Westmacott, size 200

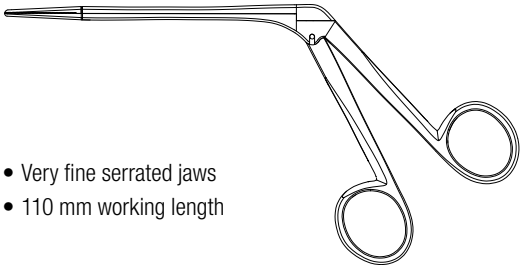




- 100 mm working length

WT324100 Nasal forceps, acc. to Hoffmann, size 195





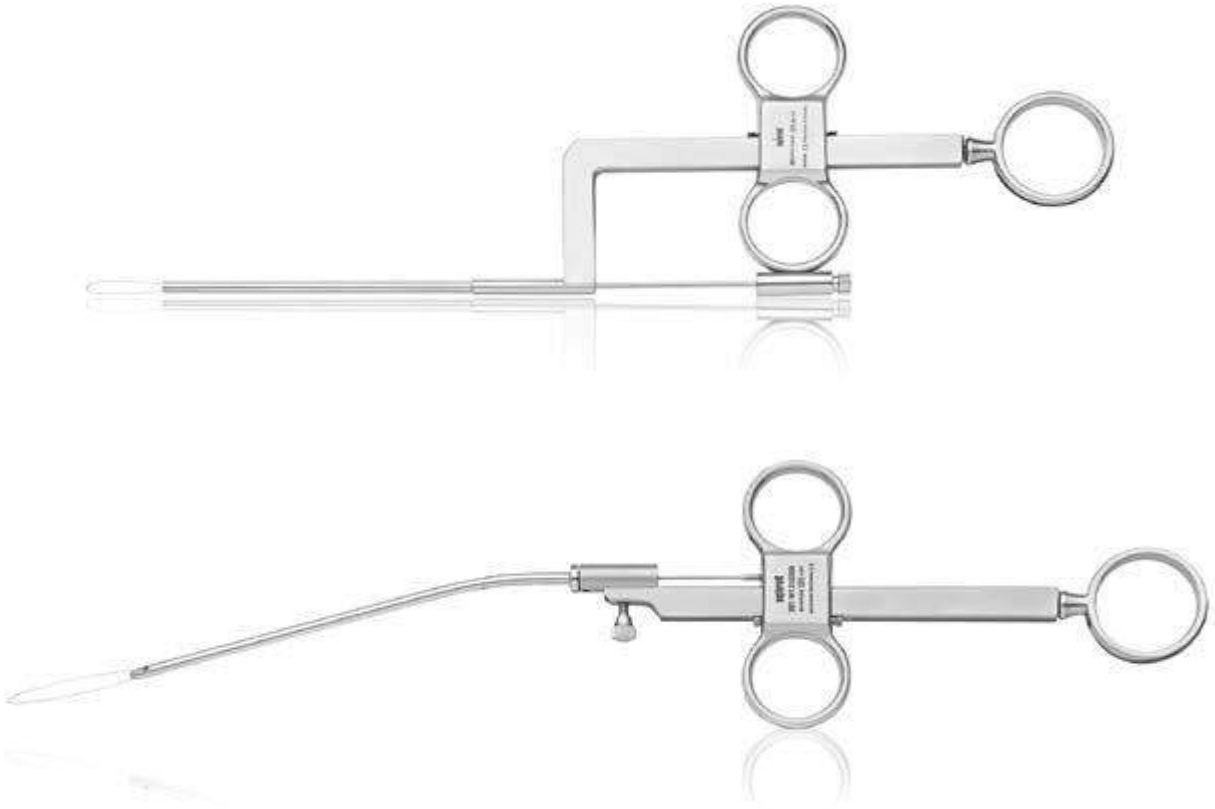
- Very fine serrated jaws
- 110 mm working length

size = total length [mm]

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Nasal Polyp Snares



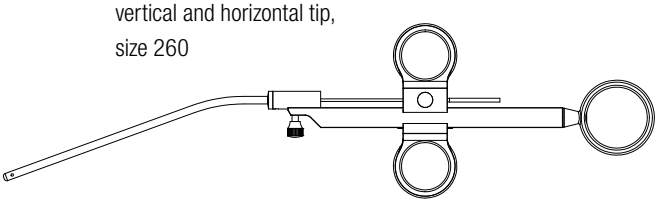
- Angled and bayonet models
- Vertical and horizontal tip
- Snare wires, cut and formed

EXPLORENT

Nasal Polyp Snares

size = total length [mm]

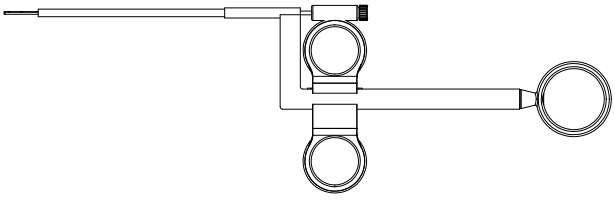
WT310000 Polyp snare, acc. to Krause-Voss,
vertical and horizontal tip,
size 260



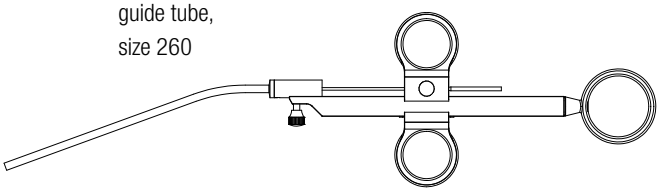
WT310001 Spare rod, horizontal, for nasal snare
WT000822 Spare rod, vertical, for nasal snare
WT310002 Spare tip, horizontal, for nasal snare
WT310003 Spare tip, vertical, for nasal snare



WT310200 Snare, acc. to Lange Wilde,
bayonet, guide tube,
size 230



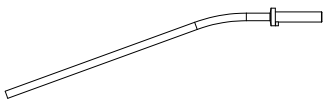
WT310500 Snare, acc. to Krause,
guide tube,
size 260



WT310501 Spare rod, for nasal snare acc. to Krause, serrated

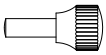


WT310502 Spare guiding tube, for nasal snare acc. to Krause



Nasal Polyp Snares (cont.)

WT310503 Spare screw, for snares



Snare Wires

Wire, for nasal snare,
WT311000 size 0.3 x 100, 12 pcs.
WT311004 size 0.4 x 100, 12 pcs.
WT311005 size 0.5 x 100, 12 pcs.
WT311035 size 0.35 x 100, 12 pcs.
WT311103 size 0.3 x 100, 100 pcs.
WT311104 size 0.4 x 100, 100 pcs.
WT311135 size 0.35 x 100, 100 pcs.



size = diameter [mm] x total length [mm]
- cut and formed

WT311100 Wire, for nasal snare,
size 0.4, coil
(not shown)

size = diameter [mm]



- With tungsten carbide cutting edges for extremely high durability
- Supercut and serrated blade models
- Smooth and very delicate models

EXPLORENT

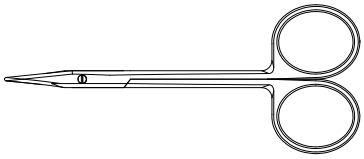
Scissors

size = total length [mm]

Scissors, acc. to Stevens,
blunt/blunt,

WT268210 straight, size 105
WT268310 curved, size 105

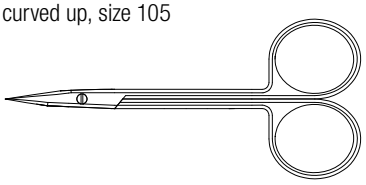




- Tenotomy and vascular scissors

WT550011 Scissors, acc. to Stevens,
for tenotomy, sharp/sharp,
curved up, size 105

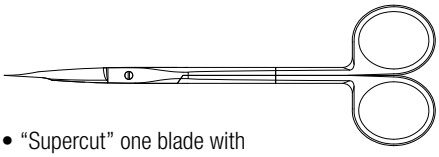




Scissors, acc. to Goldman-Fox,
with tungsten carbide,

WT268413 straight, size 130
WT268713 curved up, size 130

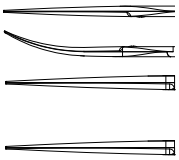


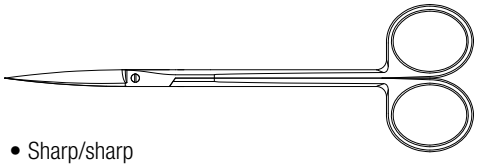


- "Supercut" one blade with
  micro-serration, other blade with knife edge

Scissors, acc. to Joseph,

WT276514 straight, size 140
WT276614 curved up, size 140
WT276714 with tungsten carbide,
straight, size 140
WT276814 with tungsten carbide,
curved up, size 140



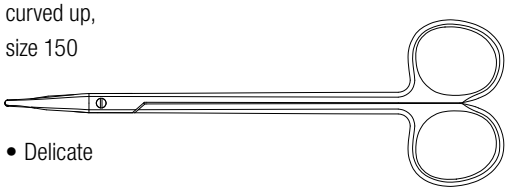


- Sharp/sharp

Scissors (cont.)

WT279615 Dissection scissors,
acc. to Reynolds,
curved up,
size 150

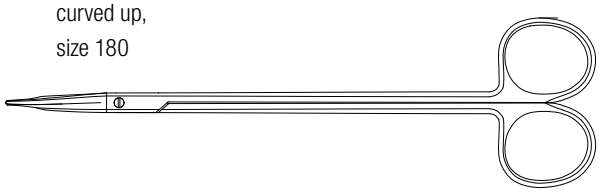




- Delicate

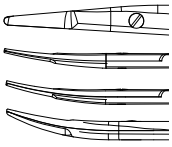
WT279618 Dissection scissors,
acc. to Reynolds,
curved up,
size 180

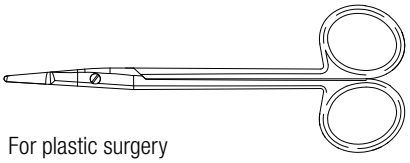




Scissors, acc. to Kilner,

WT438712 curved up, size 120
WT438813 with tungsten carbide, curved up, size 120
WT438714 curved up, size 135

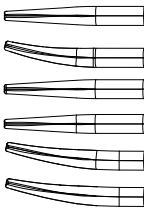


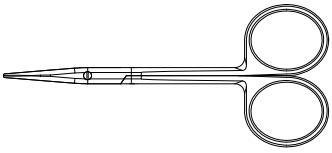


For plastic surgery

Strabismus scissors,
blunt/blunt,

WT277010 straight, size 105
WT277110 curved up, size 105
WT277212 straight, size 115
WT277012 with tungsten carbide, straight, size 115
WT277312 curved up, size 115
WT277112 with tungsten carbide, curved up, size 115





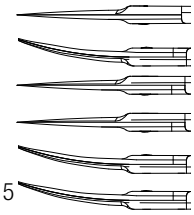
size = total length [mm]

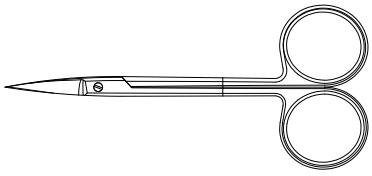
Scissors
(cont.)

Scissors (cont.)

Iris scissors,
sharp/sharp,

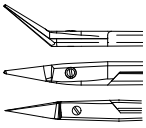
WT277510 straight, size 105
WT277610 curved up, size 105
WT277712 straight, size 115
WT277512 with tungsten carbide, straight, size 115
WT277812 curved up, size 115
WT277612 with tungsten carbide, curved up, size 115

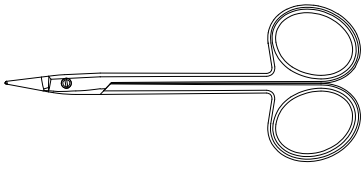




Scissors, acc. to Walter,

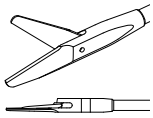
WT438410 blunt/blunt, angled, size 100
WT438411 sharp/sharp, angled, size 100

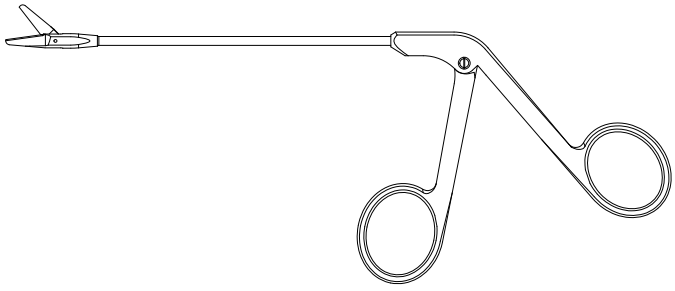




Nasal scissors,
serrated,

WT326200 straight, size 130
WT326201 curved to left, size 130
WT326202 curved to right, size 130





size = working length [mm

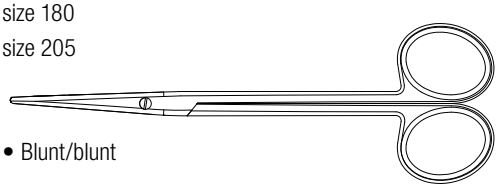
Metzenbaum Scissors

size = total length [mm]

Dissection scissors, acc. to Metzenbaum,
curved up,

WT542014 size 145
WT542018 size 180
WT542020 size 205



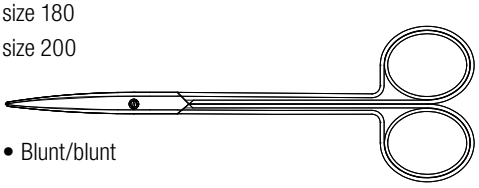


• Blunt/blunt

Dissection scissors, acc. to Metzenbaum-Fino,
curved up,

WT542114 size 140
WT542118 size 180
WT542120 size 200



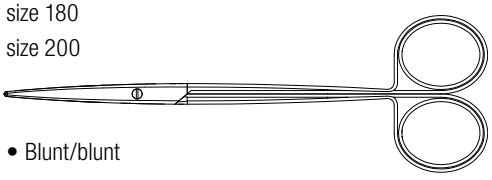


• Blunt/blunt

Dissection scissors, acc. to Metzenbaum-Fino,
with tungsten carbide,
curved up,

WT542414 size 145
WT542418 size 180
WT542420 size 200



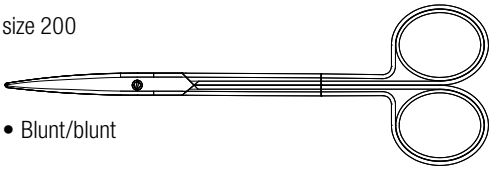


• Blunt/blunt

Dissection scissors, acc. to Metzenbaum,
with tungsten carbide,
curved up,

WT542214 size 145
WT542218 size 180
WT542220 size 200



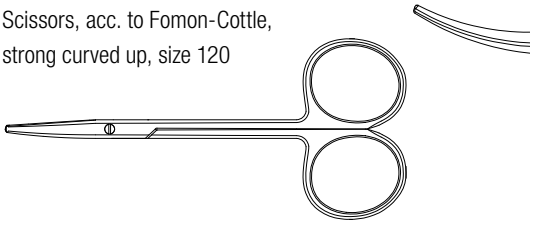


• Blunt/blunt

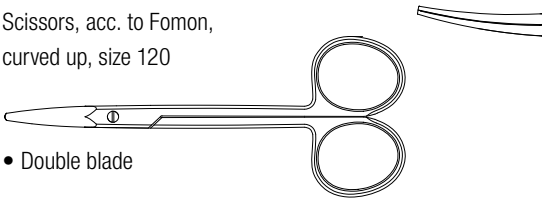
Fomon Scissors

size = total length [mm]

WT438512 Scissors, acc. to Fomon-Cottle, strong curved up, size 120

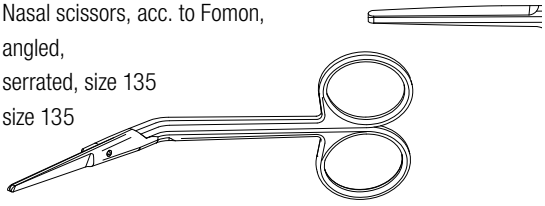


WT438612 Scissors, acc. to Fomon, curved up, size 120



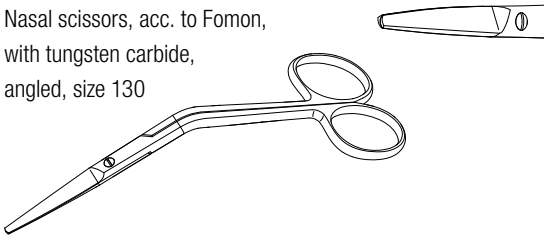
- Double blade

WT439000 Nasal scissors, acc. to Fomon, angled, serrated, size 135
WT439001 size 135

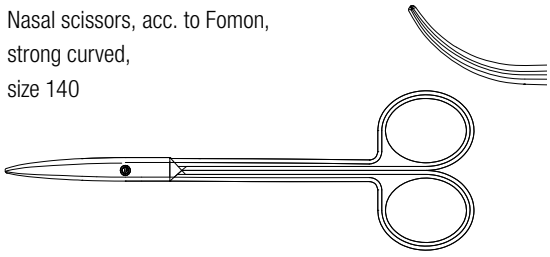


- Delicate

WT439002 Nasal scissors, acc. to Fomon, with tungsten carbide, angled, size 130

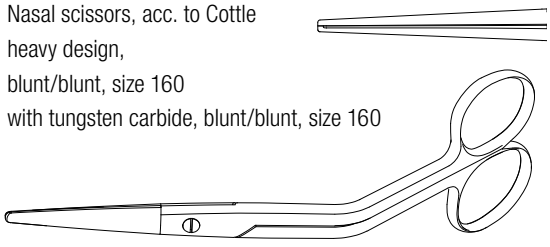


WT550393 Nasal scissors, acc. to Fomon, strong curved, size 140



Cottle Scissors

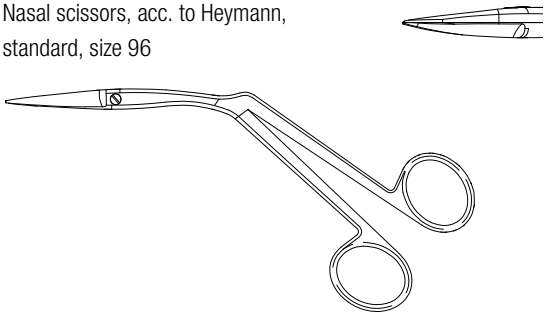
WT439100 Nasal scissors, acc. to Cottle heavy design, blunt/blunt, size 160
WT439200 with tungsten carbide, blunt/blunt, size 160



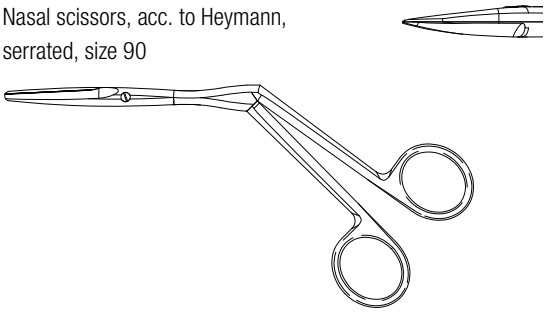
Heymann Scissors

size = working length [mm]

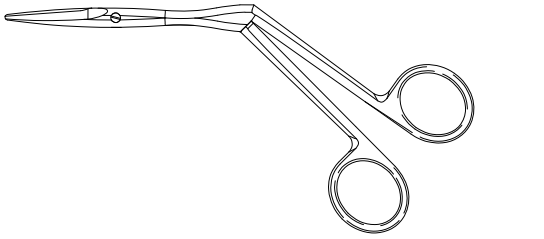
WT326000 Nasal scissors, acc. to Heymann, standard, size 96



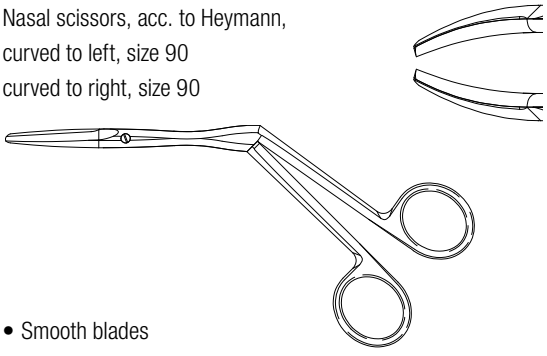
WT326100 Nasal scissors, acc. to Heymann, serrated, size 90



WT326009 Nasal scissors, acc. to Heymann, size 90
WT326011 size 110



WT326101 Nasal scissors, acc. to Heymann, curved to left, size 90
WT326102 curved to right, size 90



- Smooth blades

Needle Holders





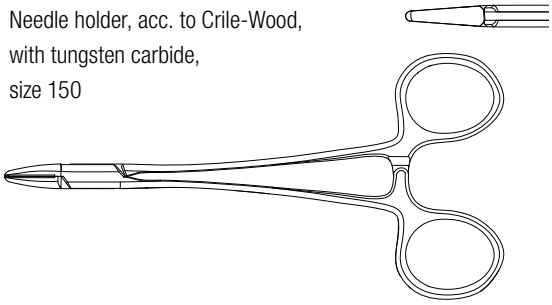
- With tungsten carbide inserts
- Slender shaped models
- Smooth and delicate models

EXPLORENT

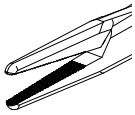
Needle Holders

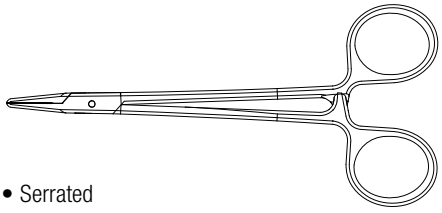
size = total length [mm]

WT213015 Needle holder, acc. to Crile-Wood,
with tungsten carbide,
size 150



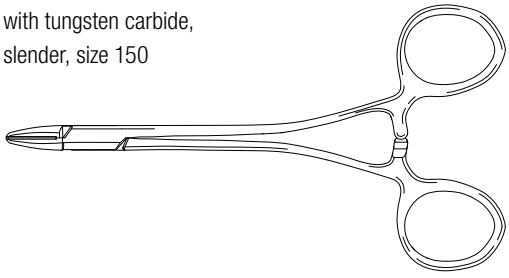
WT213113 Needle holder, acc. to Halsey,
with tungsten carbide,
size 130





- Serrated

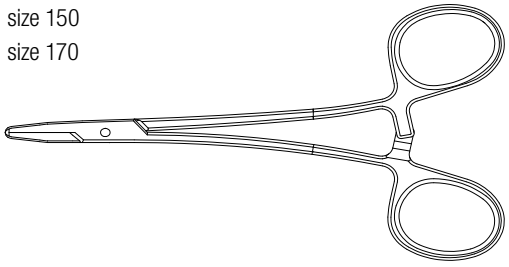
WT467015 Needle holder, acc. to Senning,
with tungsten carbide,
slender, size 150



Needle holder, acc. to Ryder,
with tungsten carbide,

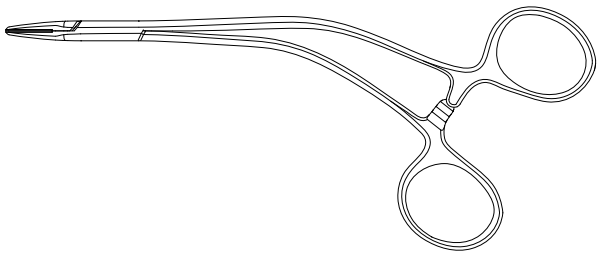
WT467115 size 150
WT467017 size 170





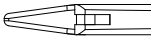
Needle Holders (cont.)

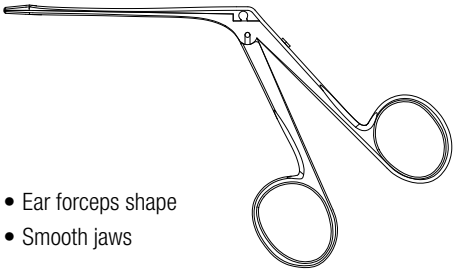
WT467218 Needle holder,
with tungsten carbide,
delicate, size 180



Needle holder, acc. to Masing-Cottle,

WT468006 size 60
WT468009 size 90





- Ear forceps shape
- Smooth jaws

size = working length [mm]



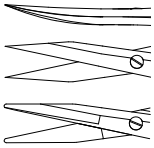
EXPLORENT

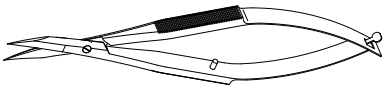
- Very delicate models
- Models with tungsten carbide inserts
- With flat handle and lock
- Models with smooth jaws

Micro Scissors

Scissors, acc. to Westcott,
micro, curved up,

WT430230 sharp, size 115
WT430231 blunt, size 115

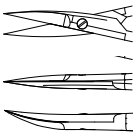


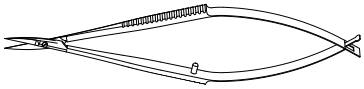


- Tenotomy scissors

Iris scissors,
micro, sharp,

WT430250 straight, size 100
WT430251 curved up, size 100

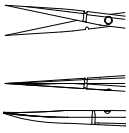


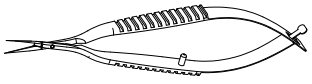


- Pointed

Scissors, acc. to Vannas,
micro,

WT430330 straight, size 85
WT430331 curved up, size 85

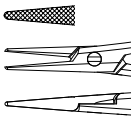


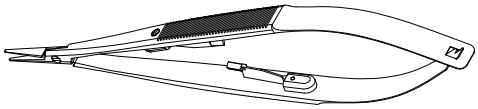


- Very delicate

Micro Needle Holders

WT430432 Needle holder, acc. to Castroviejo,
micro, smooth,
size 140

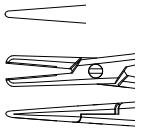


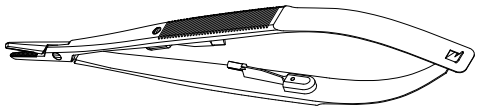


- Very delicate
- Straight, with lock

Needle holder, acc. to Castroviejo,
micro, with tungsten carbide,

WT430450 serrated, size 140
WT430452 size 140





- Straight, with lock
- Smooth jaws

size = total length [mm]

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Your Vision, Our Future

Forceps

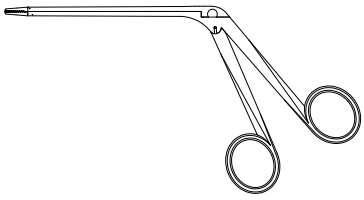
with Ring Handle



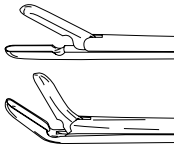
- Through-cutting models
- Models with serrated jaws
- Extra-delicate models

EXPLORENT

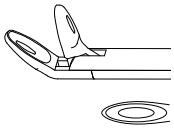
Nasal Forceps



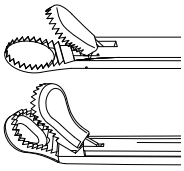
	Nasal forceps, acc. to Takahashi,
WT327001	small, straight, size 3 x 100
WT327002	curved up, straight, 3 x 100
WT327003	large, straight, size 110



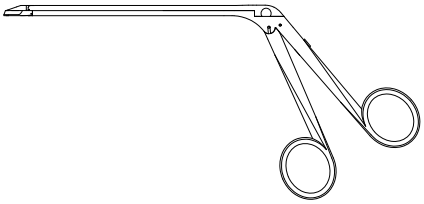
WT330300	Nasal forceps, acc. to Struempel-Voss, curved up, delicate, size 2.5 x 110



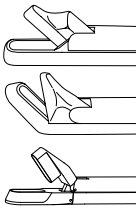
	Nasal forceps, acc. to Watson-Williams, serrated,
WT334000	size 100
WT334045	curved up 45, size 100



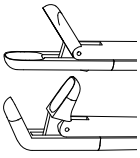
Moriyama Punch Forceps



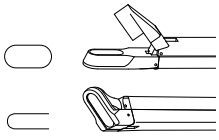
	Punch forceps, acc. to Moriyama, through-cutting,
WT326801	delicate, straight, size 1.5 x 125
WT326802	delicate, curved up, size 1.5 x 125
WT326803	sheath curved up, size 1.5 x 125
WT326815	straight, size 1.3 x 125
WT326808	curved up, size 140



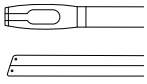
	Punch forceps, acc. to Moriyama, with oval cups,
WT326804	straight, size 3.0 x 140
WT326805	curved up, size 3.0 x 140
WT326806	sheath curved up, size 140
WT326809	curved up, size 140



	Punch forceps, acc. to Moriyama, through-cutting,
WT326810	straight, size 105
WT326811	straight, size 3.0 x 105
WT326812	curved up, size 105
WT326813	curved up, size 2.0 x 100
WT326814	large, curved up, size 105



WT326807	Punch forceps, acc. to Moriyama, backward cutting, sheath curved up, size 2.7 x 130

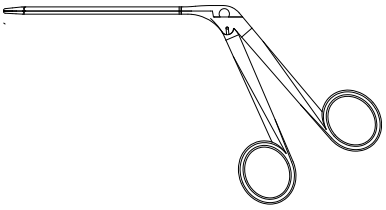


- Through-cutting
- Oval cups

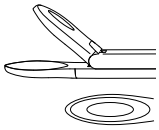
size = jaws width [mm] x working length [mm]

Forceps
with Ring Handle (cont.)

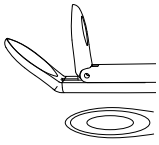
Blakesley Nasal Forceps



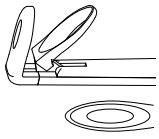
	Nasal forceps, acc. to Blakesley, straight,
WT330000	size 3.0 x 115
WT330001	size 3.5 x 115
WT330002	size 4.0 x 115
WT330003	size 5.0 x 115
WT330004	size 6.0 x 115



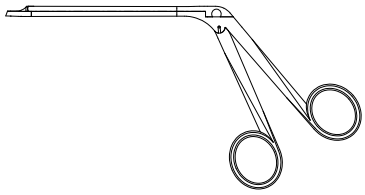
	Nasal forceps, acc. to Blakesley, curved up 45,
WT330100	size 3.0 x 115
WT330101	size 3.5 x 115
WT330102	size 4.0 x 115
WT330103	size 5.2 x 115
WT330104	size 6.0 x 115



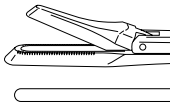
	Nasal forceps, acc. to Blakesley, curved up 90,
WT330200	size 3.0 x 115
WT330201	size 3.5 x 115
WT330202	size 4.0 x 115
WT330203	size 5.0 x 115



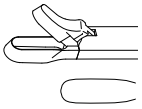
Punch Forceps



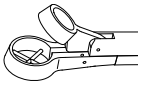
WT327500	Punch forceps, acc. to Struycken, size 1.2 x 110



	Punch forceps, acc. to Gruenwald-Henke,
WT328501	size 2.8 x 105
WT328502	size 3.4 x 105



	Punch forceps, acc. to Hartmann, with basket,
WT329001	size 5.0 x 110
WT329002	size 8.0 x 100
WT329003	size 9.0 x 100
WT329004	size 10 x 100

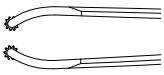


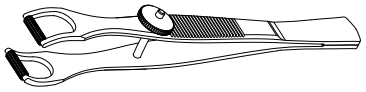
size = jaws width [mm] x working length [mm]

Thumb Forceps

Cottle Thumb Forceps

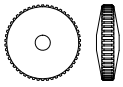
WT401000 Thumb forceps, columella, acc. to Cottle, with screw, size 105



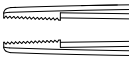


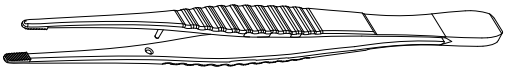
- 11.5 mm width

WT401001 Spare screw, for thumb forceps WT401000



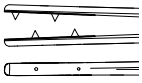
WT411000 Thumb forceps, for insertion, acc. to Cottle, size 155





- Serrated

WT427015 Thumb forceps, for dissection, acc. to Cottle, bayonet-shaped, size 150



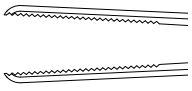


- With fixation screw
- Serrated and with thorns

Semken Thumb Forceps



Thumb forceps, acc. to Semken,
WT208612 delicate, size 125
WT208615 delicate, size 150



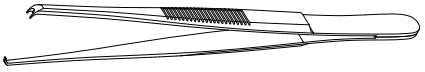
Thumb forceps, for dissection, acc. to Semken,
WT208712 delicate, size 125
WT208715 delicate, size 150



Thumb Forceps

WT428000 Thumb forceps, for cartilage, acc. to Hinderer, size 125

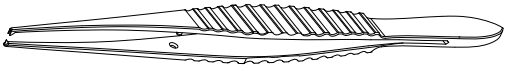




- 2 x 2 teeth

WT209415 Thumb forceps, for dissection, acc. to Gillies, size 150

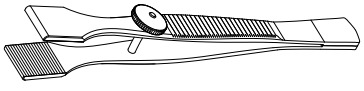




- 1 x 2 teeth

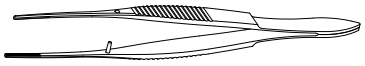
WT401010 Thumb forceps, for cartilage, acc. to Hildmann, serrated jaws, size 105



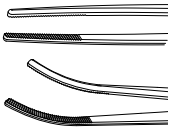


size = total length [mm]

Graefe Thumb Forceps



Thumb forceps,
acc. to Graefe,
WT209210 straight, size 100
WT209220 curved, size 0.7 x 100



- Serrated

WT209310 Thumb forceps, for dissection,
acc. to Graefe,
straight, size 100

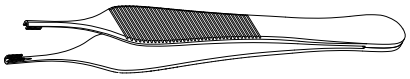


- Tip 0.7 mm
- 1 x 2 teeth

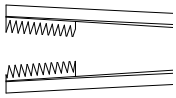
WT426011 Thumb forceps, fixation ,
acc. to Graefe,
7 x 8 teeth, size 110



Adson Thumb Forceps



Thumb forceps, for dissection,
acc. to Adson-Brown,
WT425012 7 x 7 teeth, size 120
WT425512 with tungsten carbide, size 120



WT425112 Thumb forceps, acc. to Adson,
size 120



- Delicate, serrated

Thumb forceps, for dissection,
acc. to Adson,
WT425212 size 120
WT425213 serrated jaws, size 120

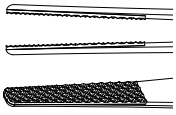


- 1 x 2 teeth

Thumb forceps, acc. to Adson,
micro,
WT425312 very delicate, size 120
WT425315 very delicate, size 150
WT425412 for dissection, very delicate, size 120



Thumb forceps, for dissection,
acc. to Adson,
with tungsten carbide,
WT425612 size 1.7 x 120
WT425712 size 125



size = total length [mm]
size = diameter [mm] x total length [mm]

OLYMPUS

Your Vision, Our Future

Septoplasty and Rhinoplasty Forceps

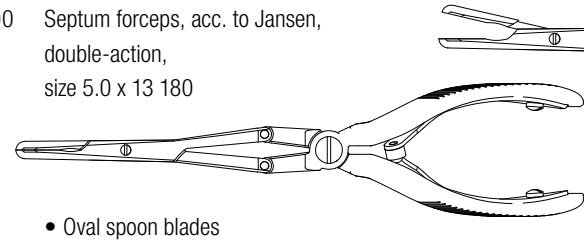


- Models with double-action transmission
- Serrated jaws morcelizer
- Detachable models
- Forceps for nasal hump resection

EXPLORENT

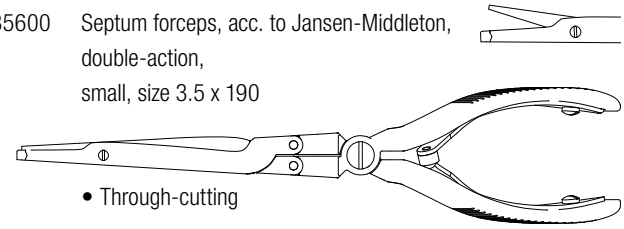
Double-Action Forceps

WT335500 Septum forceps, acc. to Jansen, double-action, size 5.0 x 13 180



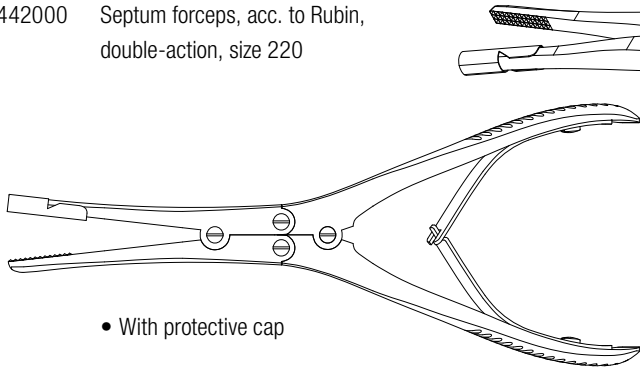
- Oval spoon blades

WT335600 Septum forceps, acc. to Jansen-Middleton, double-action, small, size 3.5 x 190



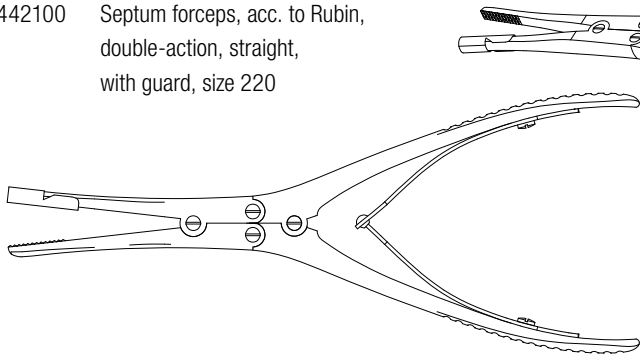
- Through-cutting

WT442000 Septum forceps, acc. to Rubin, double-action, size 220



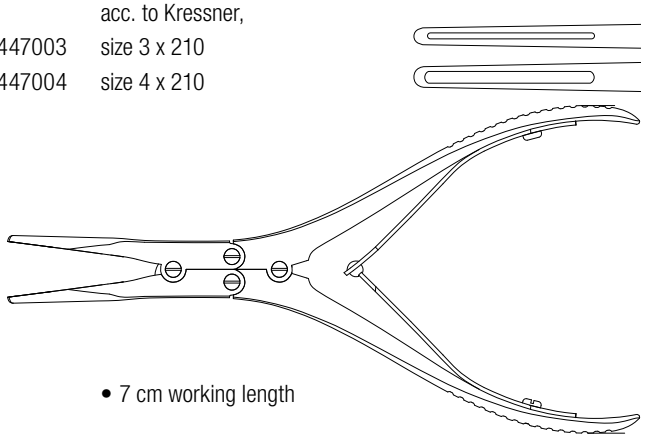
- With protective cap

WT442100 Septum forceps, acc. to Rubin, double-action, straight, with guard, size 220



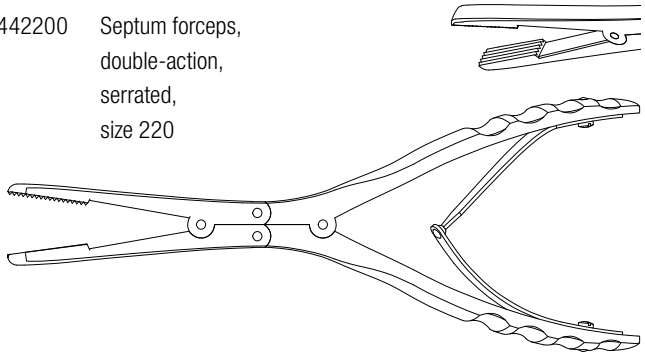
Double-Action Forceps

Turbinate forceps, acc. to Kressner,
WT447003 size 3 x 210
WT447004 size 4 x 210



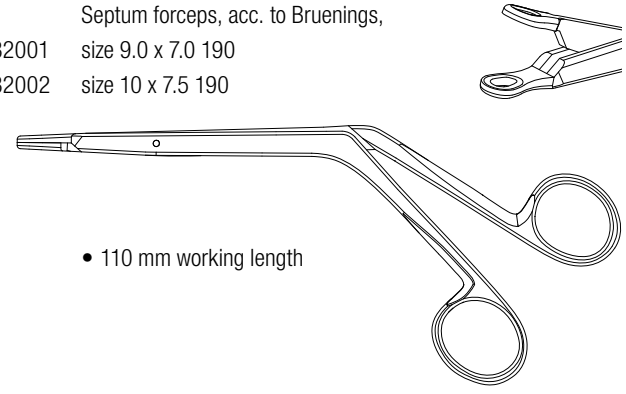
- 7 cm working length

WT442200 Septum forceps, double-action, serrated, size 220



Septum Forceps

Septum forceps, acc. to Bruenings,
WT332001 size 9.0 x 7.0 190
WT332002 size 10 x 7.5 190

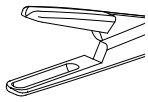


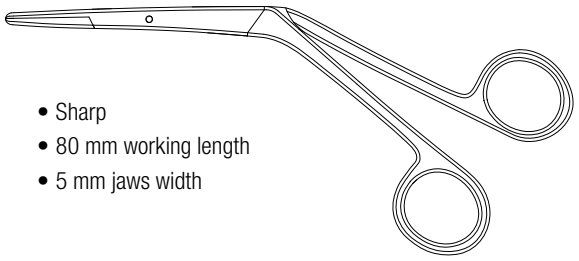
- 110 mm working length

Septoplasty and Rhinoplasty Forceps (cont.)

Septum Forceps (cont.)

WT333000 Septum forceps, acc. to Craig, straight, size 180

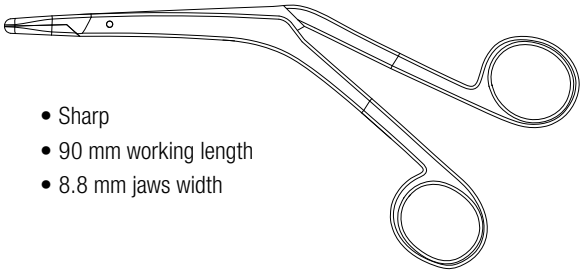




- Sharp
- 80 mm working length
- 5 mm jaws width

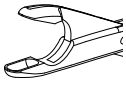
WT333100 Septum forceps, acc. to Craig-Domnick, curved left, size 180

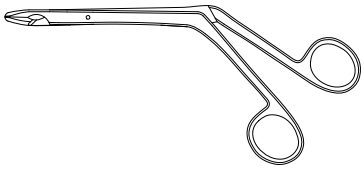




- Sharp
- 90 mm working length
- 8.8 mm jaws width

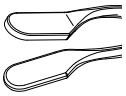
WT333200 Septum forceps, acc. to Knight, size 6.0 x 110

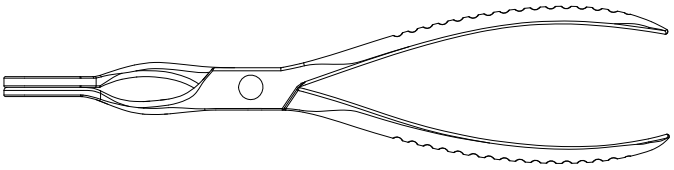




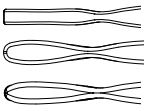
Septum Straightening Forceps

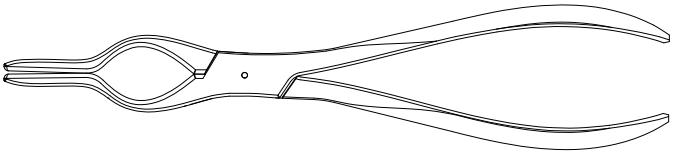
WT443000 Septum forceps, acc. to Cottle-Walsham, detachable, size 215



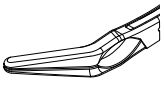


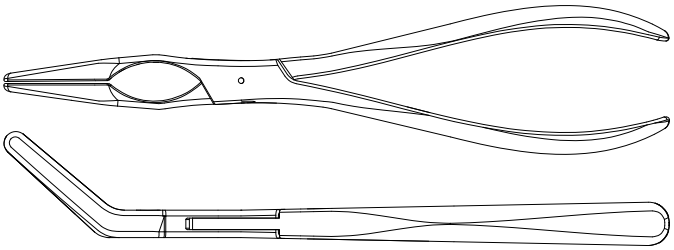
WT444000 Septum forceps, acc. to Cottle-Walsham, straight, size 230
WT444101 left, size 230
WT444102 right, size 230





WT445000 Septum forceps, acc. to Ash, angled, size 220

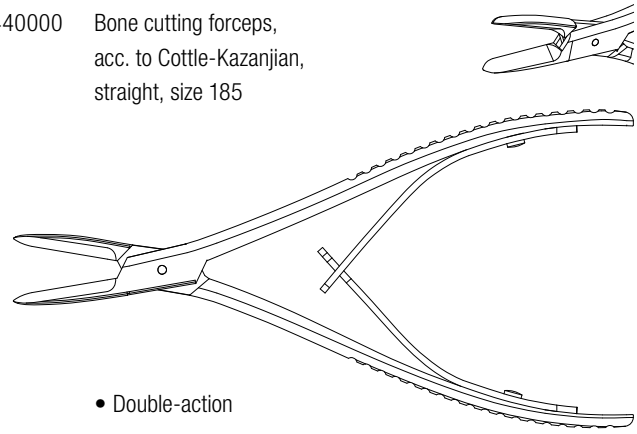




size = total length [mm]
size = cutting width [mm] x total length [mm]

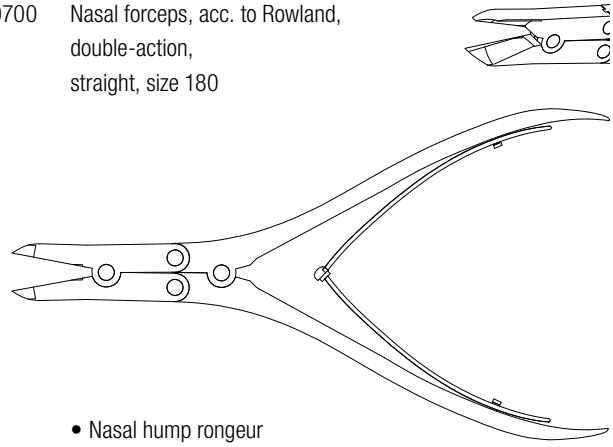
Nasal Bone Forceps

WT440000 Bone cutting forceps,
acc. to Cottle-Kazanjian,
straight, size 185



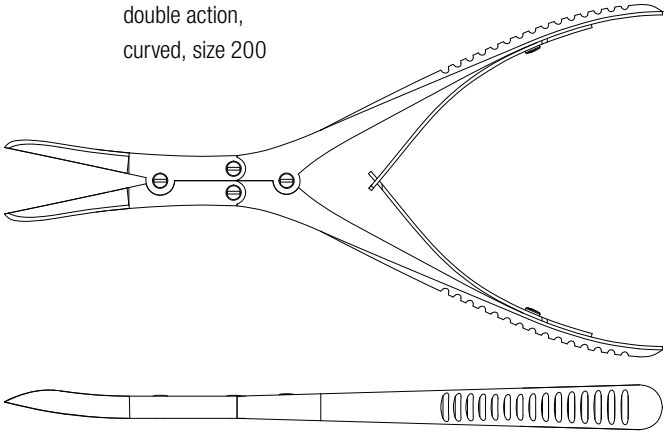
- Double-action

WT440700 Nasal forceps, acc. to Rowland,
double-action,
straight, size 180



- Nasal hump rongeur

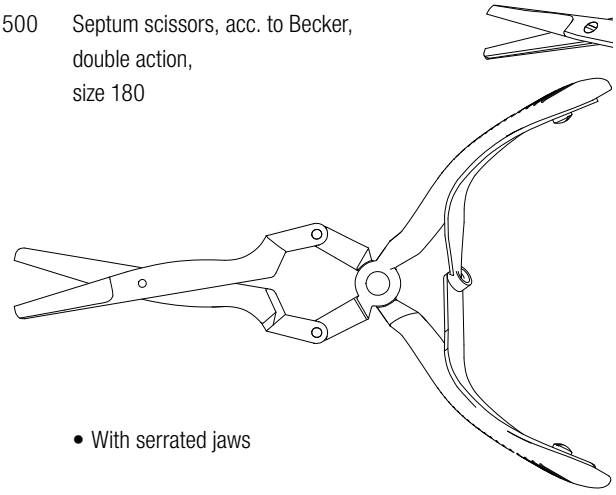
WT440800 Nasal forceps, acc. to Meyer,
double action,
curved, size 200



size = total length [mm]

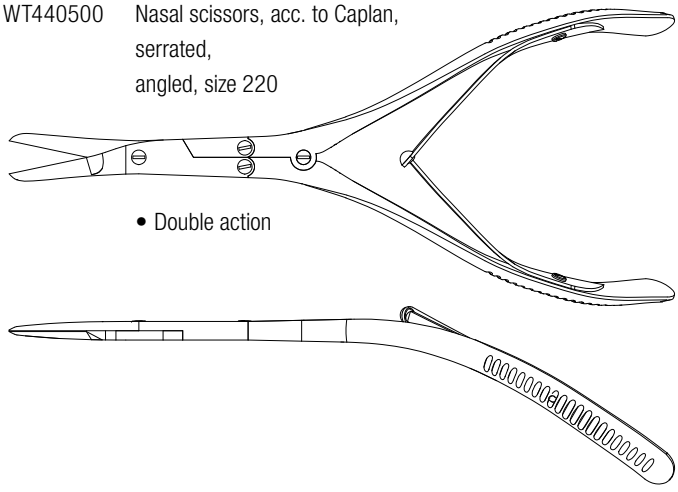
Nasal Septum Scissors

WT441500 Septum scissors, acc. to Becker,
double action,
size 180



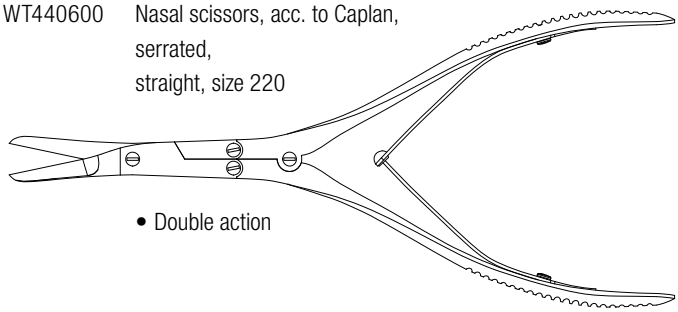
- With serrated jaws

WT440500 Nasal scissors, acc. to Caplan,
serrated,
angled, size 220

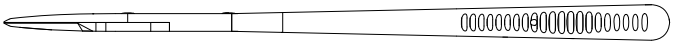


- Double action

WT440600 Nasal scissors, acc. to Caplan,
serrated,
straight, size 220

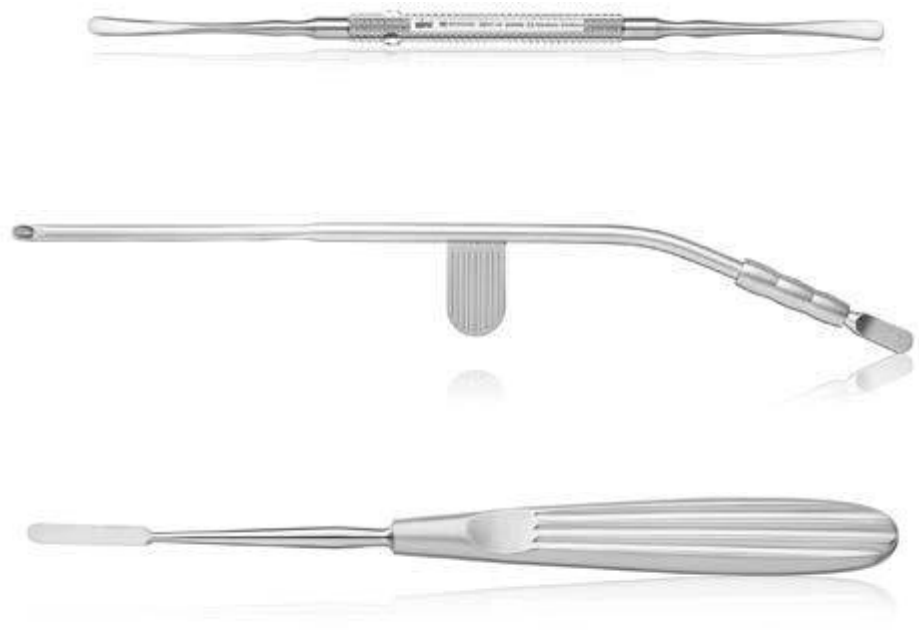


- Double action



size = total length [mm]

Elevators, Raspatories

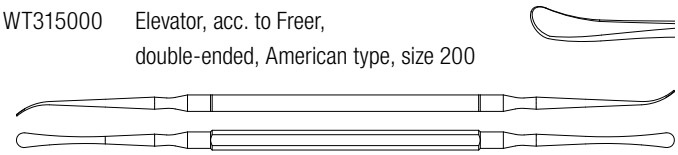


- Double-ended models
- Very sharp suction elevators
- Delicate models

EXPLORENT

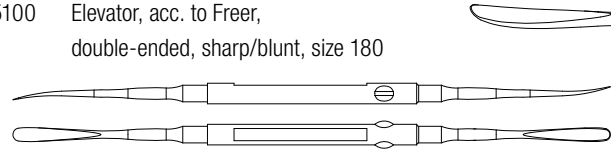
Double-Ended Elevators

WT315000 Elevator, acc. to Freer,
double-ended, American type, size 200



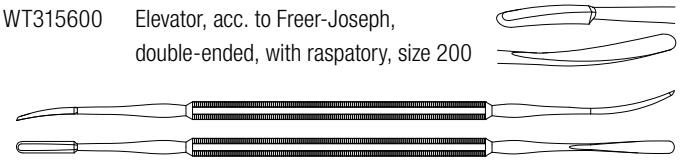
- Sharp/blunt
- 4.5 mm width

WT315100 Elevator, acc. to Freer,
double-ended, sharp/blunt, size 180



- 4.7 mm width

WT315600 Elevator, acc. to Freer-Joseph,
double-ended, with raspatory, size 200



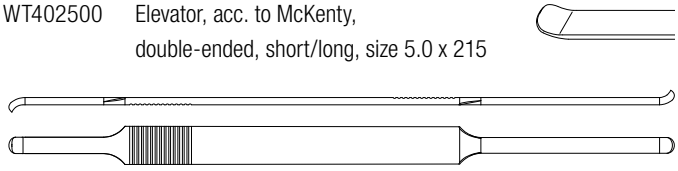
- 4.5 and 3.5 mm width

Elevator, acc. to Killian,
double-ended, sharp/blunt,
WT316000 size 190
WT316100 size 230

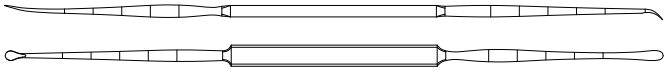


- 6 mm width

WT402500 Elevator, acc. to McKenty,
double-ended, short/long, size 5.0 x 215

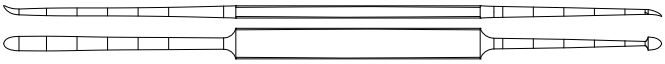


Elevator, acc. to Cottle,
double-ended,
WT404500 sharp/blunt, size 230
WT404800 graduated, size 200



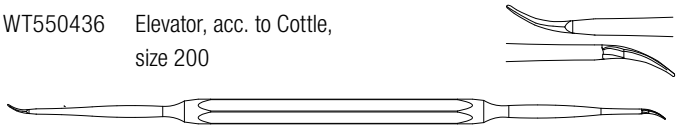
Double-Ended Elevators (cont.)

Elevator, acc. to Masing,
double-ended, sharp/blunt,
WT405000 size 230
WT405100 size 215

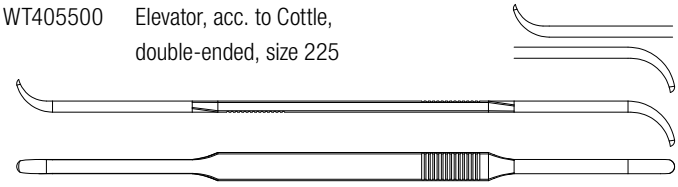


- graduated

WT550436 Elevator, acc. to Cottle,
size 200



WT405500 Elevator, acc. to Cottle,
double-ended, size 225



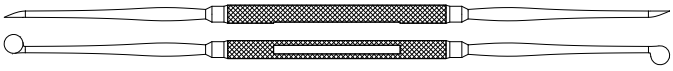
- Slight/strong curved
- 5 mm width

WT405600 Elevator, acc. to Pennington,
double-ended size 210



- For right and left side
- 5.8 mm cutting width

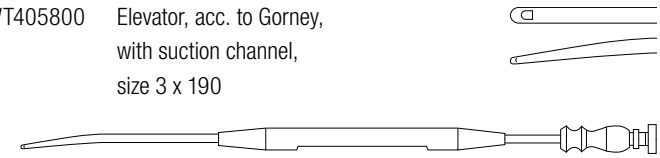
WT405700 Elevator, acc. to Pierce,
double-ended, size 210



Elevators, Raspatories
(cont.)

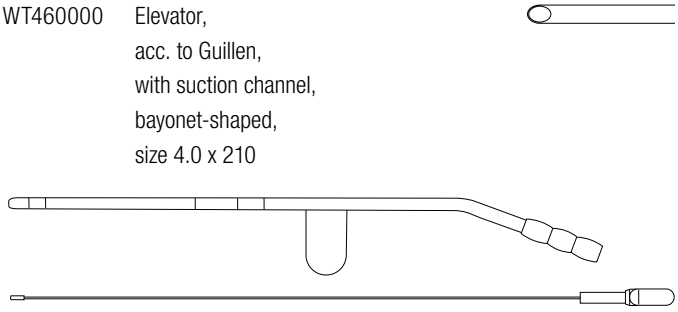
Suction Elevators

WT405800 Elevator, acc. to Gorney,
with suction channel,
size 3 x 190



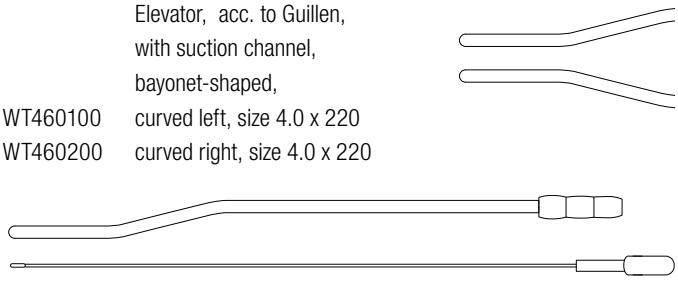
- With mandrin

WT460000 Elevator,
acc. to Guillen,
with suction channel,
bayonet-shaped,
size 4.0 x 210



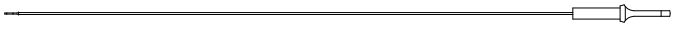
- Sharp
- With mandrin

Elevator, acc. to Guillen,
with suction channel,
bayonet-shaped,
WT460100 curved left, size 4.0 x 220
WT460200 curved right, size 4.0 x 220



- Sharp
- With mandrin

WT460001 Mandrin,
for suction elevator WT460000

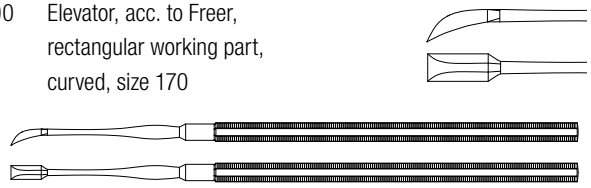


- For elevators WT460000/-100/-200

size = total length [mm]
size = diameter [mm] x total length [mm]

Elevators

WT315200 Elevator, acc. to Freer,
rectangular working part,
curved, size 170

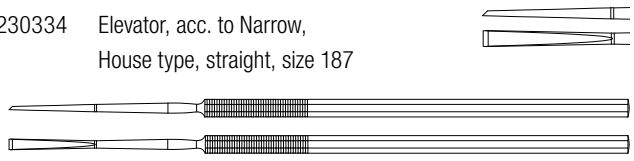


- Sharp cornered end
- 4 mm width

Elevator, acc. to McKenty,
WT402003 size 3.0 x 145
WT402004 size 4.0 x 145
WT402005 size 5.0 x 145



WT230334 Elevator, acc. to Narrow,
House type, straight, size 187

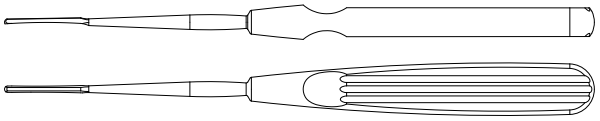


size = total length [mm]
size = width [mm] x total length [mm]

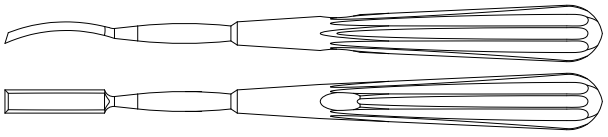
Raspatories

Raspatory, acc. to Lempert (Joseph),
slightly curved,

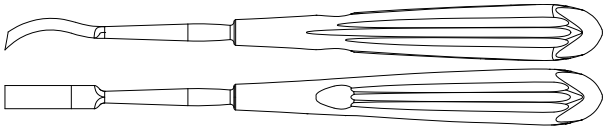
WT208001 2.0 x 175
WT208002 3.0 x 175
WT208003 4.0 x 175
WT208004 5.0 x 175



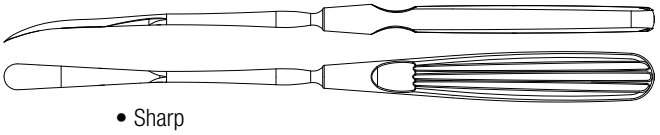
WT208107 Raspatory, acc. to Lempert,
curved,
size 7.0 x 180



WT550589 Raspatory, acc. to Lempert,
bayonet curved,
size 7.0 x 30 x 180



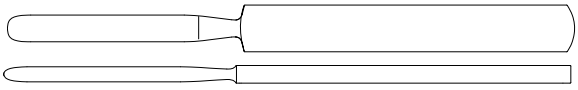
WT316500 Raspatory, acc. to Cottle,
curved,
size 8.0 x 195



- Sharp

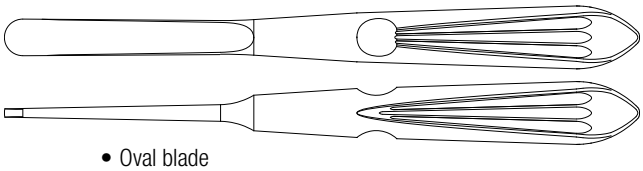
Treatment of Nasal Fractures

WT460500 Elevator,
heavy design, size 170



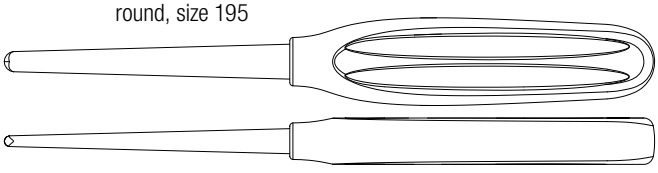
- 8 mm width

WT461000 Elevator, acc. to Boies,
blunt, size 11 x 190



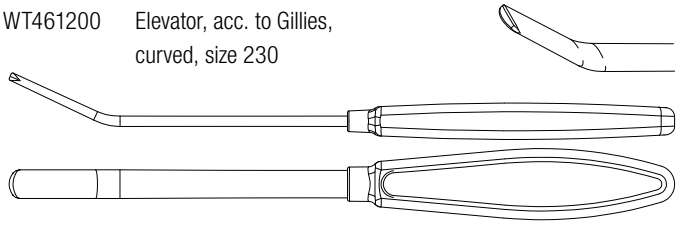
- Oval blade

WT461100 Elevator, acc. to Goldman,
round, size 195



- Conical shape

WT461200 Elevator, acc. to Gillies,
curved, size 230

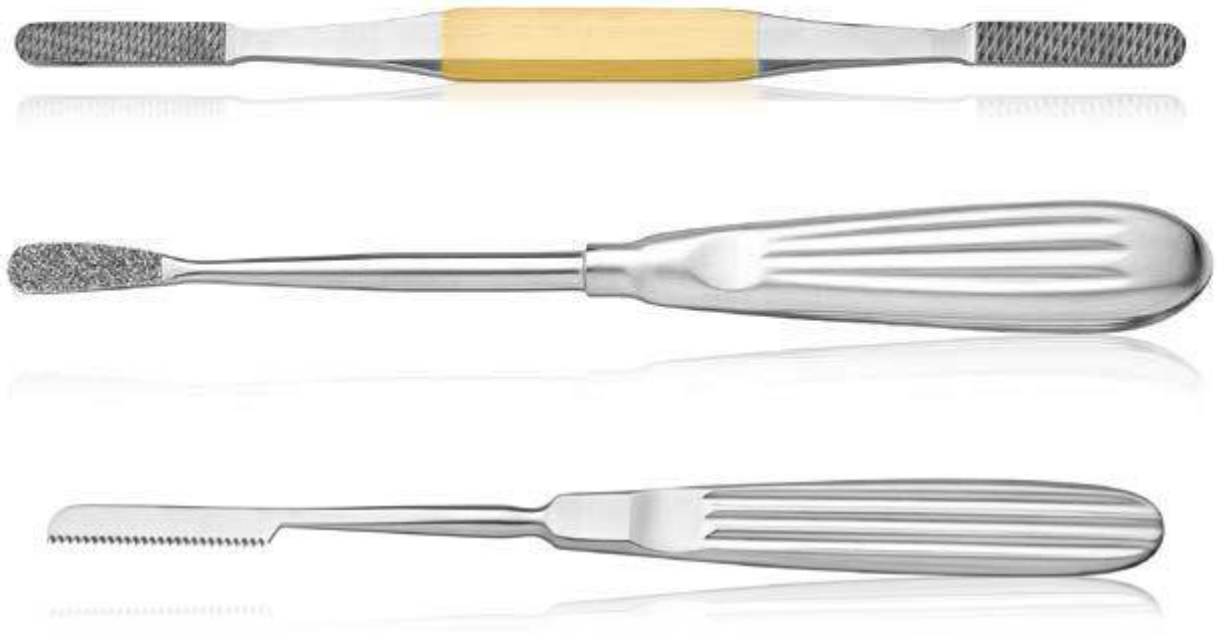


- 10 mm width

OLYMPUS

Your Vision, Our Future

Nasal Rasps, Nasal Saws



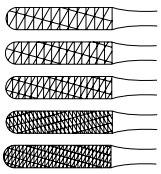
- Rasps with tungsten carbide inserts or diamond coating
- Single and double-ended rasps
- Up-cutting and down-cutting rasps
- Rasps with fine to coarse working ends
- Straight and bayonet-shaped saws with crossed teeth

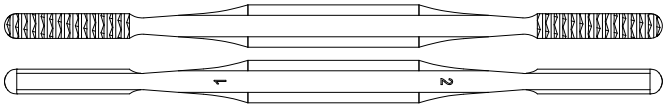
EXPLORENT

Double-Ended Nasal Rasps

Rasp, double-ended,
with tungsten carbide,

WT452001 size 1 + 2, 200
WT452002 size 3 + 4, 200
WT452003 size 5 + 6, 200
WT452004 size 7 + 8, 200
WT452005 size 9 + 10, 200



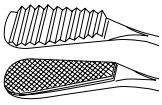


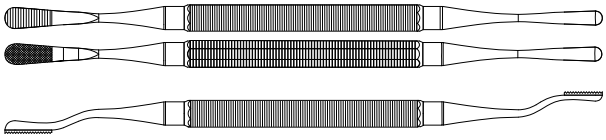
Sizes

1 + 2 ..... coarse
3 + 4 ..... coarse and medium
5 + 6 ..... medium
7 + 8 ..... medium and fine
9 + 10 ..... fine
200 ..... total length [mm]

Rasp, acc. to Miller,
double-ended,,
with tungsten carbide,

WT453503 size 1, 180
WT453504 size 2, 180



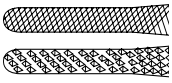


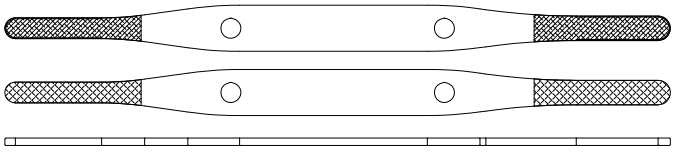
Sizes

1 ..... serrated
2 ..... cross serrated
Total length ..... 180 mm
Width ..... 6.5/5.5 mm

Rasp, acc. to Cottle-Masing,
double-ended,large/small,

WT453000 fine, size 215
WT453100 coarse, size 215

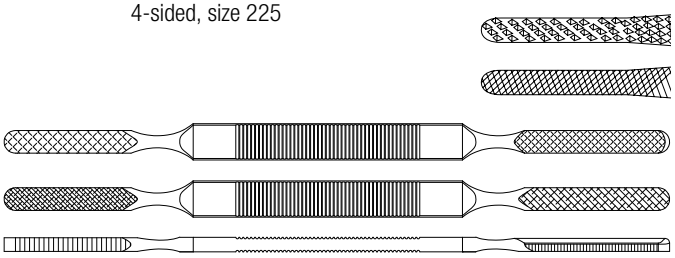




size = [total length] mm

Double-Ended Nasal Rasps (cont.)

WT453200 Rasp, acc. to Kleinert-Kutz (Fomon),
4-sided, size 225

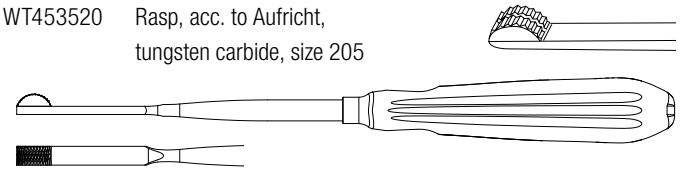


- double-ended
- each of 2 sides fine (flat) and coarse (convex)

size = [total length] mm

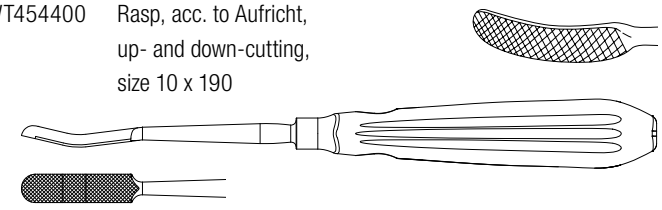
Aufricht Glabella Rasps

WT453520 Rasp, acc. to Aufricht,
tungsten carbide, size 205



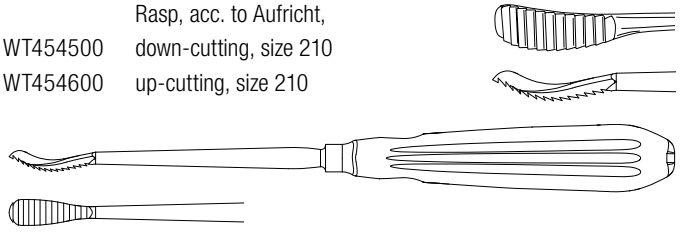
size = [total length] mm

WT454400 Rasp, acc. to Aufricht,
up- and down-cutting,
size 10 x 190



size = [rasp width] mm x [total length] mm

Rasp, acc. to Aufricht,
WT454500 down-cutting, size 210
WT454600 up-cutting, size 210

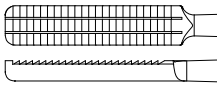


size = [total length] mm

Nasal Rasps, Nasal Saws (cont.)

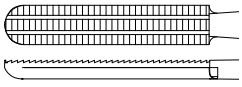
Maltz Nasal Rasps

• With blood-groove
size = [total length] mm

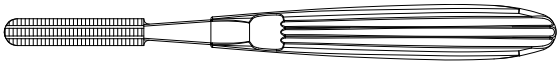


Rasp, acc. to Maltz,
WT453500 size L, 160
WT453600 narrow, down-cutting, size 160
WT453700 large, up-cutting, size 160
WT453800 narrow, up-cutting, size 160





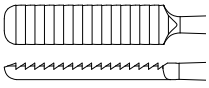
Rasp, acc. to Maltz,
tungsten carbide,
WT453501 down-cutting, size 165
WT453502 up-cutting, size 165

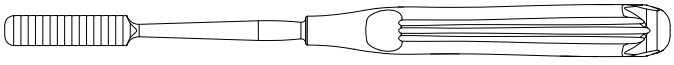


Single-Ended Nasal Rasps

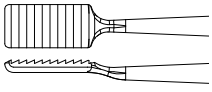
size = [total length] mm

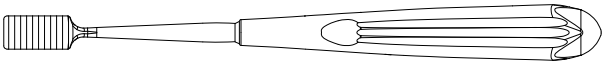
WT454000 Rasp, acc. to Cottle,
straight, down-cutting,
size 210





Rasp, acc. to Lewis,
WT456600 fine, down-cutting, size 180
WT456700 coarse, down-cutting, size 180

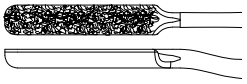


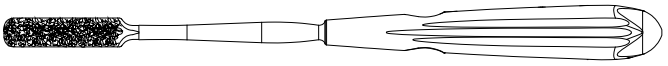


Diamond-Coated Nasal Rasps

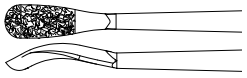
size = [total length] mm

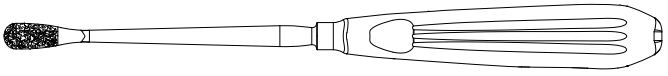
WT457100 Rasp, acc. to Cottle,
diamond,
straight, size 205



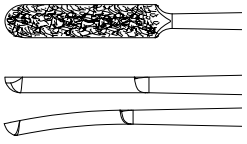


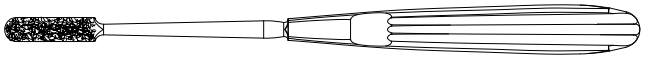
WT457200 Rasp, acc. to Aufricht,
diamond, size 205





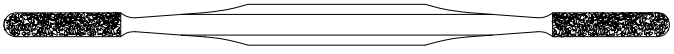
Rasp,
diamond coated,
WT457301 straight, size 190
WT457303 curved backward, size 190





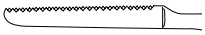
WT457400 Rasp, acc. to Fomon,
diamond coated,
double-ended, size 210





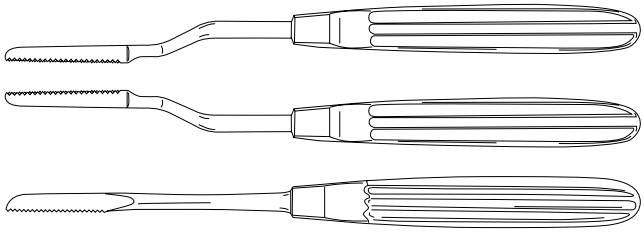
• Flat/oval

Nasal Saws



Saw, acc. to Joseph,
bayonet-shaped,

WT448001 curved left, size 190
WT448002 curved right, size 190
WT448100 straight, size 190



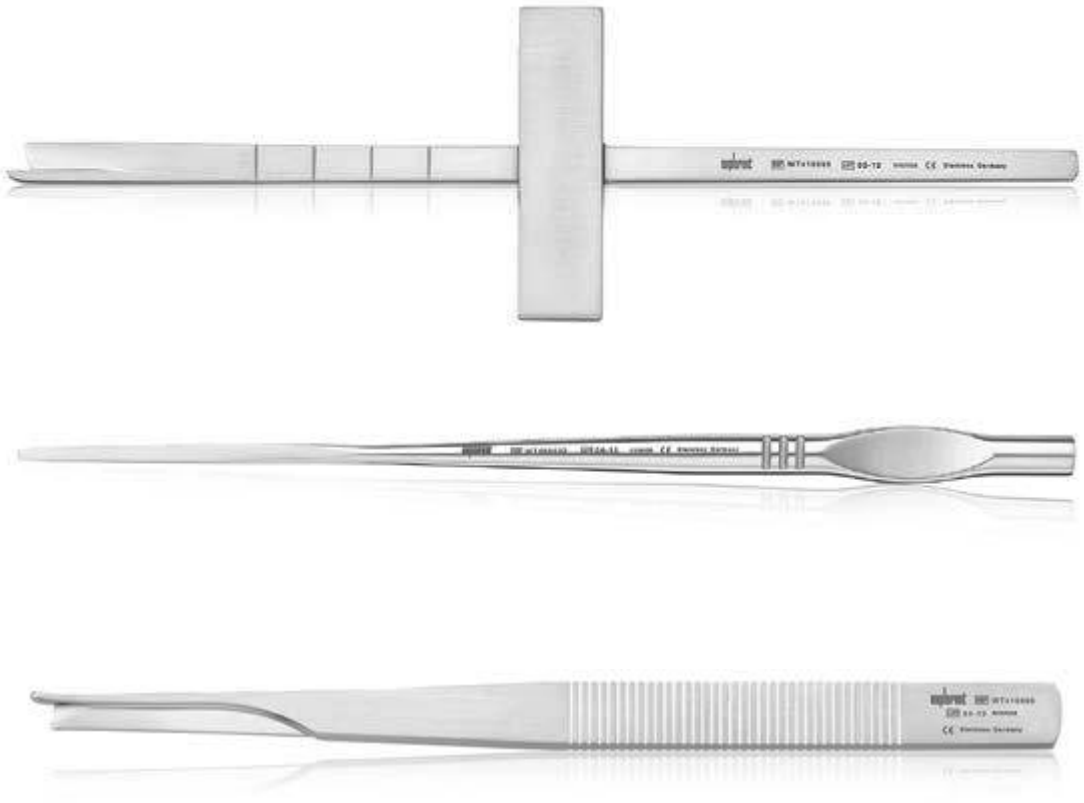
- Crossed teeth

size = [total length] mm

OLYMPUS

Your Vision, Our Future

Chisels, Gouges, Osteotomes

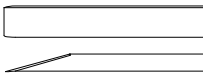


- Single and double guard models
- Graduated models
- Models with cross bar or stabilizer

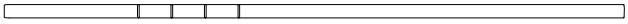
EXPLORENT

Cottle Chisels and Osteotomes

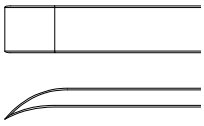
Chisel, acc. to Cottle,
straight, graduated,

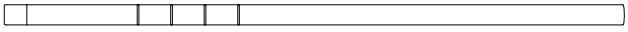


WT407004 size 4.0 x 185
WT407007 size 7.0 x 185
WT407009 size 9.0 x 185
WT407012 size 12 x 185

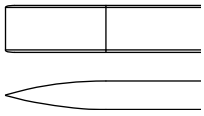


WT407106 Chisel, acc. to Cottle,
curved, graduated,
size 6.0 x 185

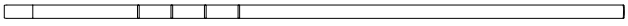




Osteotome, acc. to Cottle,
straight, graduated,

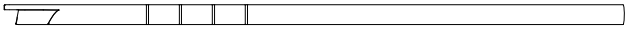


WT407204 size 4.0 x 185
WT407206 size 6.0 x 185
WT407209 size 8.0 x 185
WT407212 size 12 x 185

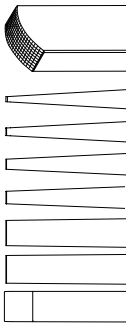


WT410500 Osteotome, acc. to Cottle,
with guard,
straight, size 5.0 x 185





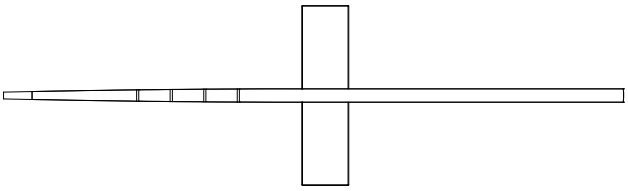
Osteotome, acc. to Converse,
with stabilizer,



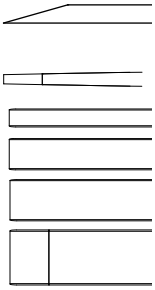
WT000837 size 2.0 x 180
WT000838 size 3.0 x 180
WT000839 size 4.0 x 180
WT000840 size 5.0 x 180
WT000841 size 10 x 180
WT000842 size 11 x 180
WT000843 size 12 x 180



Cottle Chisels and Osteotomes with Crossbar



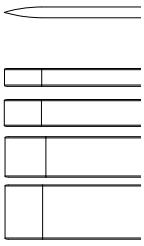
Chisel, acc. to Cottle,
with crossbar,



WT407402 size 2.0 x 185
WT407404 size 4.0 x 185
WT407407 size 7.0 x 185
WT407409 size 9.0 x 185
WT407412 size 12 x 185

• Straight

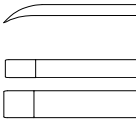
Osteotome, acc. to Cottle,
with crossbar,



WT407504 size 4.0 x 185
WT407506 size 6.0 x 185
WT407509 size 9.0 x 185
WT407512 size 12 x 185

• Straight

Chisel, acc. to Cottle,
with crossbar, curved,

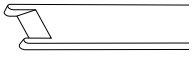


WT407704 size 4.0 x 185
WT407706 size 6.0 x 185

WT410505 Osteotome, acc. to Cottle,
with guard and crossbar,
size 5.0 x 185



Osteotome, acc. to Cottle,
with guard and crossbar,



WT410510 size 10 x 185
WT410512 size 12 x 185
WT410514 size 14 x 185
WT410516 size 16 x 185

• Double guard

size = width [mm] x length [mm]

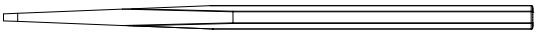
Chisels, Gouges, Osteotomes (cont.)

Chisels, Gouges, Osteotomes (cont.)

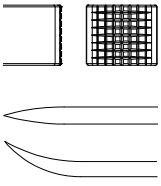
Osteotome, acc. to Sheehan,
hexagonal handle, straight,



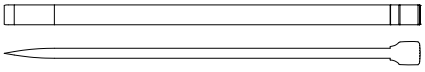
WT407602	size 2.0 x 160
WT407603	size 3.0 x 160
WT407604	size 4.0 x 160
WT407605	size 5.0 x 160
WT407606	size 6.0 x 160
WT407607	size 7.0 x 160
WT407608	size 8.0 x 160
WT407609	size 9.0 x 160
WT407610	size 10 x 160
WT407611	size 11 x 160
WT407612	size 12 x 160



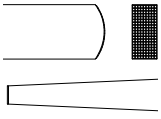
Osteotome, mini,



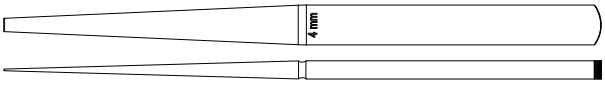
WT407302	straight, size 2.0 x 125
WT407304	straight, size 4.0 x 125
WT407306	straight, size 6.0 x 125
WT407324	up-curved, size 4.0 x 125
WT407326	up,curved, size 6.0 x 125



Osteotome, acc. to Converse,

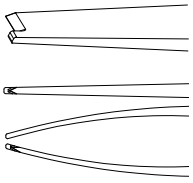


WT407802	size 2.0 x 180
WT407803	size 3.0 x 180
WT407804	size 4.0 x 180
WT407805	size 5.0 x 180
WT407806	size 6.0 x 180
WT407807	size 7.0 x 180
WT407808	size 8.0 x 180
WT407809	size 9.0 x 180
WT407810	size 10 x 180
WT407811	size 11 x 180
WT407812	size 12 x 180
WT407814	size 14 x 180

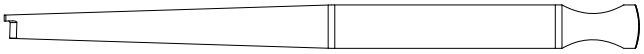


Chisels, Gouges, Osteotomes (cont.)

Chisel, acc. to Converse,
single guard,



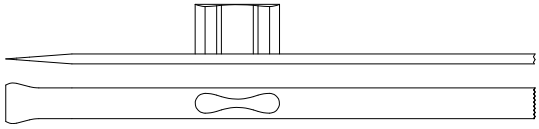
WT407900	straight, size 5.0 x 190
WT407901	left, size 5.0 x 190
WT407902	curved right, size 5.0 x 190



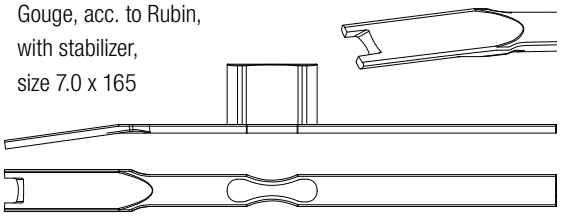
Osteotome, acc. to Rubin,
with stabilizer,



WT406010	size 10 x 160
WT406012	size 12 x 160
WT406014	size 14 x 160
WT406016	size 16 x 160



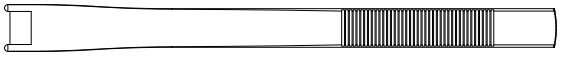
WT406100 Gouge, acc. to Rubin,
with stabilizer,
size 7.0 x 165



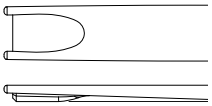
Osteotome, acc. to Cinelli,
double guard,

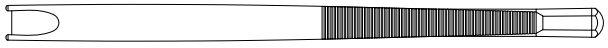


WT406510	size 10 x 165
WT406512	size 12 x 165
WT406514	size 14 x 165
WT406516	size 16 x 165



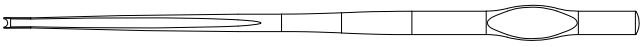
WT409000 Gouge, acc. to Parkes,
size 6.0 x 180



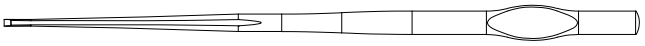


size = width [mm] x length [mm]

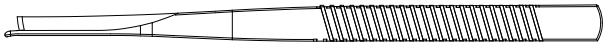
Gouge, acc. to Walter,
WT409530 size 3.0 x 190
WT409545 size 4.5 x 190



Osteotome, acc. to Walter,
WT409602 size 2.0 x 190
WT409603 size 3.0 x 190
WT409604 size 4.0 x 190
WT409607 size 7.0 x 190
WT409609 size 9.0 x 190
WT409612 size 12 x 190

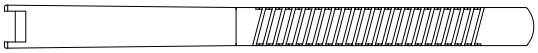


Chisel, acc. to Masing,
with guard,
WT410000 straight, size 180
WT410001 left, size 180
WT410002 right, size 180

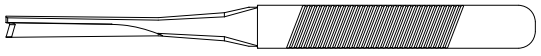


- Slightly curved

WT410005 Chisel, acc. to Masing,
double guard,
size 10 x 160



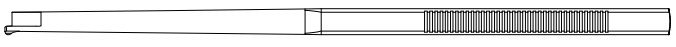
WT409100 Osteotome, acc. to Parkes,
single guard,
size 4.5 x 160



WT409200 Osteotome, acc. to Parkes,
single guard, slender,
size 4.0 x 180

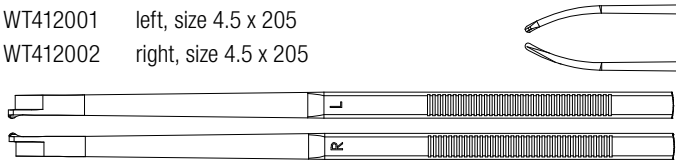


WT412000 Osteotome, acc. to Neivert,
with guard, straight, size 4 x 205



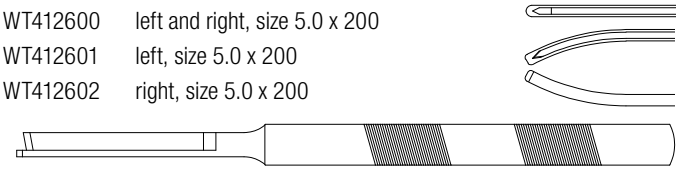
- For right and left use

Osteotome, acc. to Anderson-Neivert,
WT412001 left, size 4.5 x 205
WT412002 right, size 4.5 x 205

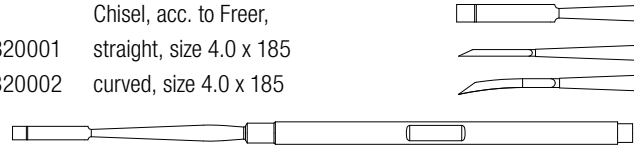


- With guide

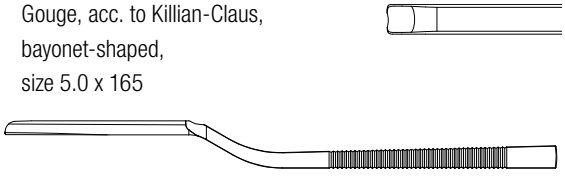
Osteotome, acc. to Ristow,
single guard,
WT412600 left and right, size 5.0 x 200
WT412601 left, size 5.0 x 200
WT412602 right, size 5.0 x 200



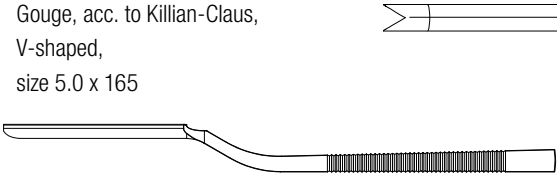
Chisel, acc. to Freer,
WT320001 straight, size 4.0 x 185
WT320002 curved, size 4.0 x 185



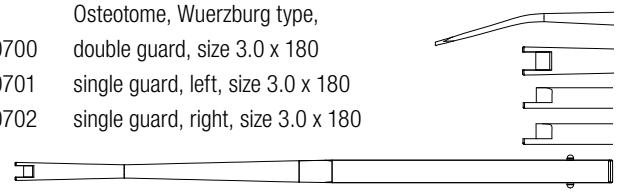
WT321000 Gouge, acc. to Killian-Claus,
bayonet-shaped,
size 5.0 x 165



WT321100 Gouge, acc. to Killian-Claus,
V-shaped,
size 5.0 x 165



Osteotome, Wuerzburg type,
WT410700 double guard, size 3.0 x 180
WT410701 single guard, left, size 3.0 x 180
WT410702 single guard, right, size 3.0 x 180



- Curved

size = width [mm] x length [mm]

Nasal Knives



- With blunt or pointed tip
- Double-cutting models
- Button end models

EXPLORENT

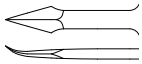
Nasal Knives

WT403000 Knife, acc. to Cottle, round, size 135





WT432000 Knife, acc. to Masing, curved, size 140





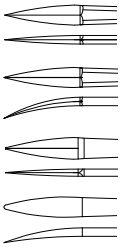
- Rounded tip

WT434000 Knife, acc. to Joseph, button-end, straight, size 150
WT434100 curved, size 150





WT435000 Knife, acc. to Joseph, sharp, straight, size 150
WT435100 sharp, double-edged, curved, size 150
WT435200 blunt, straight, size 150
WT435300 blunt, curved, size 150





- Double-edged

WT436000 Knife, acc. to Fomon, double-edged, blunt, size 155

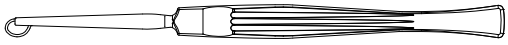




- Upcurved, 6.6 mm width

WT313000 Knife, acc. to Freer, size 150

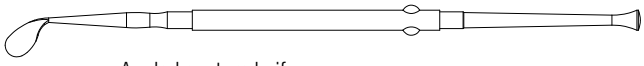




- Mucosa knife

WT314000 Knife, acc. to Freer, curved, size 190



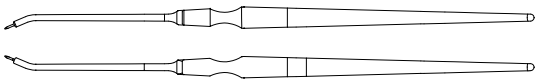


- Angled septum knife

Nasal Knives (cont.)

Knife, acc. to House,
WT313001 curved left, size 160
WT313002 curved right, size 160

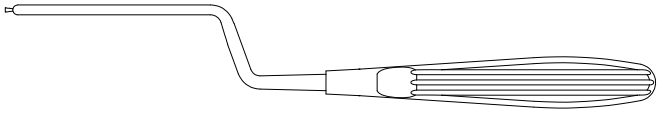




Swivel Knives

Swivel knife, acc. to Ballenger, bayonet shaped,
WT319001 size 3.0 x 195
WT319002 size 4.0 x 195





Scalpels

WT429003 Scalpel handle, no. 3, solid, size 125



WT429004 Scalpel handle, no. 4, solid, size 125

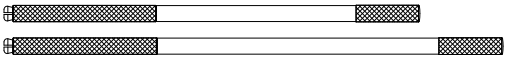


WT429007 Scalpel handle, no. 7, solid, size 125



Micro Scalpels

Scalpel handle, micro, round,
WT429310 size 5.0 x 125
WT429330 size 5.0 x 150



size = total length [mm]
size = width [mm] x total length [mm]

Retractors



- Models with sharp and blunt prongs
- Ebony-finished models
- Double-ended models, with knife-guide

EXPLORENT

Retractors

Hook, acc. to Cottle,
black,

WT415000 angled, size 145

WT415100 curved, size 145



- Tenaculum hook, delicate

WT416715 Hook, acc. to Joseph,
1 prong,
sharp, size 152



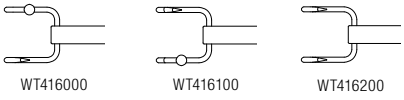


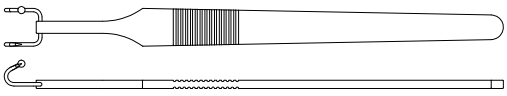
Hook, acc. to Cottle,
2 prongs,

WT416000 sharp/blunt, size 10 x 150

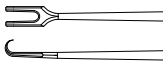
WT416100 blunt/sharp, size 10 x 150

WT416200 sharp, size 10 x 150





WT416400 Hook, acc. to Freer,
2 prongs, sharp,
size 3.0 x 150





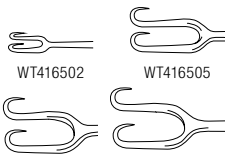
Hook, acc. to Joseph-Cottle,
2 prongs, sharp,

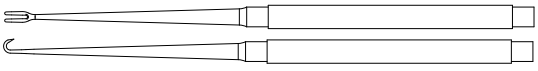
WT416502 size 2.0 x 160

WT416505 size 5.0 x 160

WT416507 size 7.0 x 160

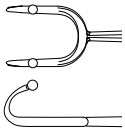
WT416510 size 10 x 160





Retractors (cont.)

WT416600 Retractor, acc. to Fomon,
2 prongs, ball end tips,
size 10 x 165





WT416300 Hook, acc. to Gillies,
1 prong, size 5.0 x 180





WT416312 Hook, acc. to Graefe,
1 prong, sharp,
size 120





WT417000 Hook, acc. to Frazier,
size 120



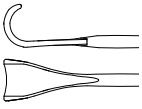


WT417100 Hook, acc. to Cottle,
sharp, size 150





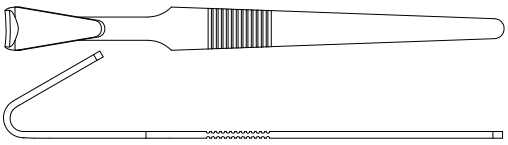
WT419000 Retractor, acc. to Cottle,
short blade, size 11 x 140





WT419500 Retractor, acc. to Cottle,
with lip, size 150



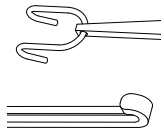


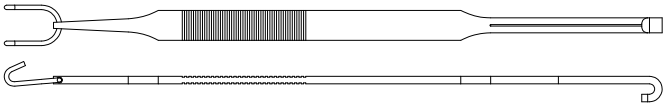
size = total length [mm]
size = width [mm] x total length [mm]

Retractors
(cont.)

Retractors (cont.)

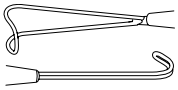
Retractor, acc. to Cottle-Neivert,
double-ended,
WT420000 size 12 x 220
WT420001 size 10 x 190





- Two blunt retractor prongs

WT420500 Retractor, acc. to Neivert,
double-ended,
size 12 x 180



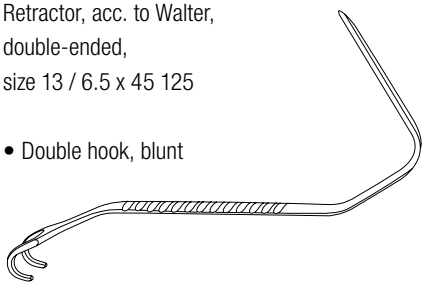


- Wire shape
- Width 12/3 mm

size = width [mm] x total length [mm]

WT420600 Retractor, acc. to Walter,
double-ended,
size 13 / 6.5 x 45 125

- Double hook, blunt

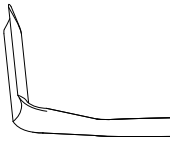


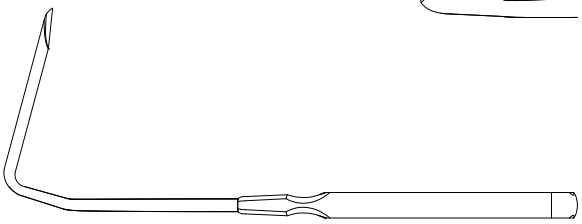
Size

Width	13 mm
Blade	45 x 6.5 mm
Total length	125 mm

Retractors (cont.)

Retractor, acc. to Aufricht,
WT422500 size 60 x 180
WT422600 size 45 x 180

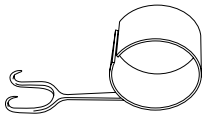




- 8 mm width

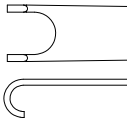
size = blade length [mm] x total length [mm]

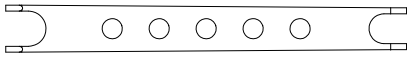
WT422800 Hook, acc. to Cottle,
sharp, size 12 x 55



size = width [mm] x total length [mm]

WT424200 Hook, aac. to Converse,
double-ended,
size 12/14 x 120

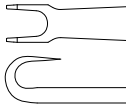




- Blunt/blunt

size = width left/width right [mm] x total length [mm]

Retractor, acc. to Kilner,
WT424300 sharp, size 10 x 85
WT424301 blunt, size 10 x 85
WT424302 sharp, size 13 x 85

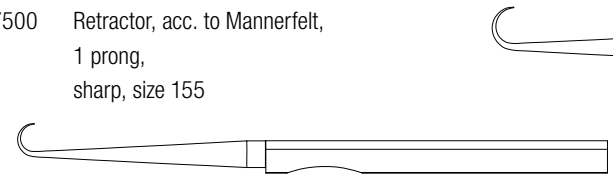




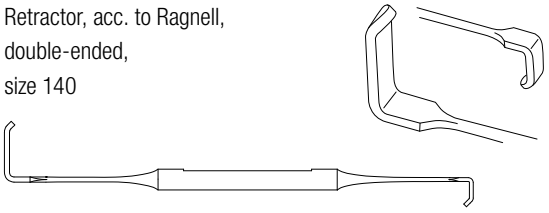
size = total length [mm]
size = width [mm] x total length [mm]

Retractors (cont.)

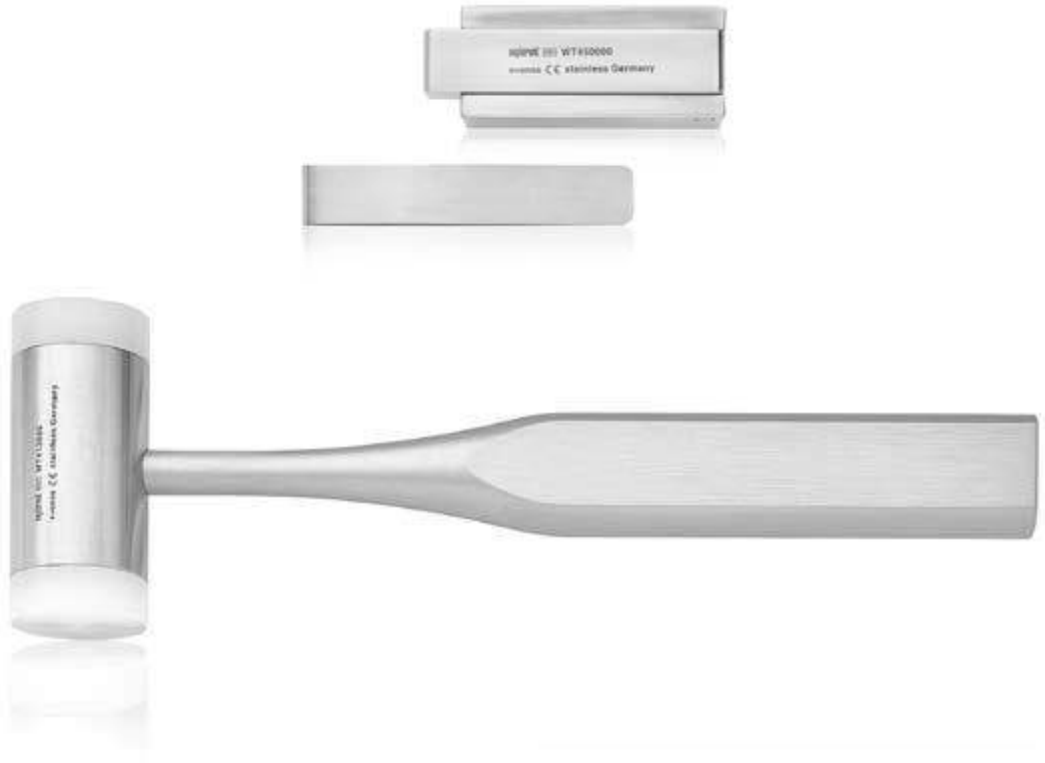
WT417500 Retractor, acc. to Mannerfelt,
1 prong,
sharp, size 155



WT566914 Retractor, acc. to Ragnell,
double-ended,
size 140



size = total length [mm]
size = width [mm] x total length [mm]



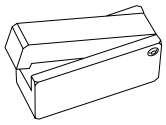
EXPLORENT

- Round and oblong crushers
- Rhinoplasty mallet with replaceable polyamide caps

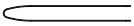
Cartilage Crusher

size = width [mm]

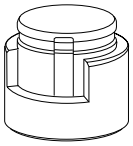
Cartilage crusher, acc. to Cottle,
with clamp,
WT450000 size 28
WT450500 size 50



WT450001 Clamp,
for cartilage crusher WT450000



WT450600 Cartilage crusher, acc. to Tolsdorff,
with clamp, round,
size 40

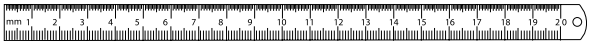


- To press pieces of bone
  up to 4 cm diameter
  venly extended in all directions.

Distance Measuring Tools

size = length [mm]

WT463500 Rule, metal,
size 200, accuracy of 1 mm / 1 inch



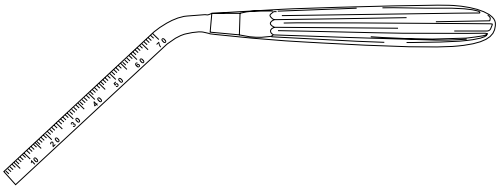
- flexible

WT463516 Rule, metal,
size 160, accuracy of 1 mm / 1 inch



- flexible

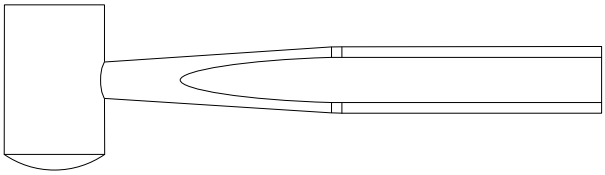
WT463200 Measuring instrument, acc. to Joseph,
scaled, size 170, accuracy of 1 mm / 1 inch



Rhinoplasty Mallets

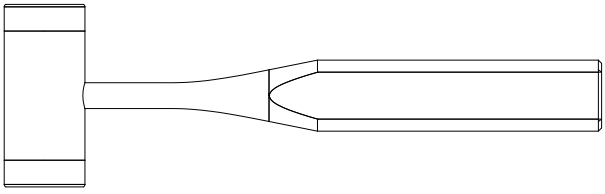
size = length [mm]

WT413000 Mallet, acc. to Cottle,
size 180



- 340 g
- 30 mm diameter
- Round/flat face
- With black handle

WT413500 Mallet, metal,
light handle, size 180



- With replaceable polyamide caps
- 212 g
- 25 mm diameter
- Flat/flat face

WT413501 Spare mallet heads,
polyamide



- 2 pcs.
- For mallet WT413500

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Rhinoplasty Surgery Set

Advanced Rhinoplasty Instruments



Including a selection of high-quality instruments, this set is state-of-the-art for rhinoplasty procedures. These precision instruments are gold-finished and have been carefully designed to supplement the standard instrument set.

- Osteotomes with special steel features and final conditioning guarantee long-lasting sharpness and durability
- Postoperative ecchymosis and edema are significantly reduced
- Scar tissue and hematoma are minimized

EXPLORENT

Osteotomes

size = width [mm] x total length [mm]

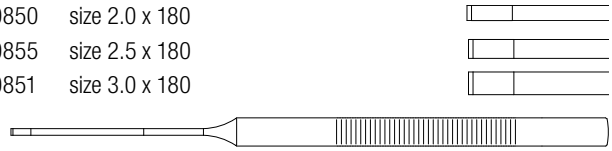
Osteotome, micro,
with guard,

WT000860 size 2.2 x 180
WT000861 size 3.0 x 180



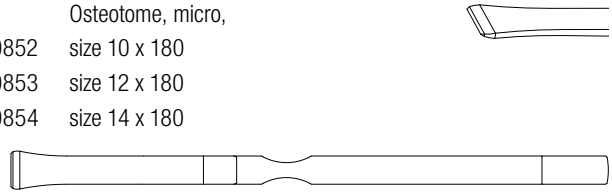
Osteotome, micro,

WT000850 size 2.0 x 180
WT000855 size 2.5 x 180
WT000851 size 3.0 x 180



Osteotome, micro,

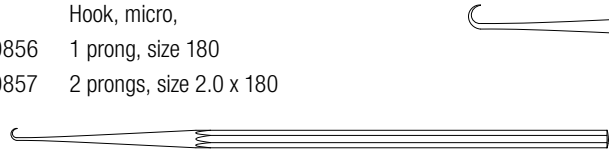
WT000852 size 10 x 180
WT000853 size 12 x 180
WT000854 size 14 x 180



Hooks and Retractors

Hook, micro,

WT000856 1 prong, size 180
WT000857 2 prongs, size 2.0 x 180



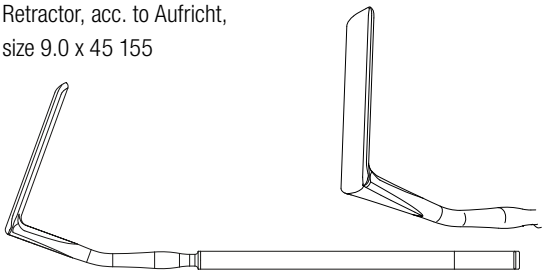
size = width [mm] x total length [mm]

WT000858 Hook, 2 prongs,
size 10 x 120



• Sharp
size = width [mm] x total length [mm]

WT000859 Retractor, acc. to Aufricht,
size 9.0 x 45 155



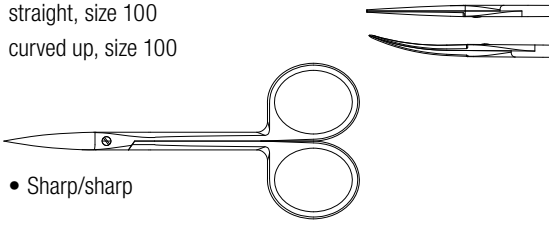
Size

hook width ..... 9.0 mm
hook length ..... 45 mm
total length ..... 155 mm

Rhinoplasty Scissors

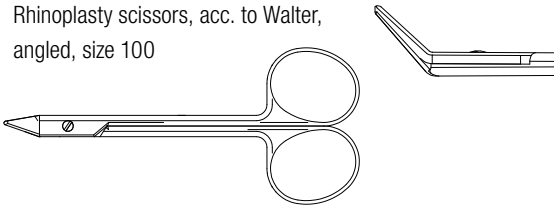
size = total length [mm]

Rhinoplasty scissors,
WT000879 straight, size 100
WT000880 curved up, size 100

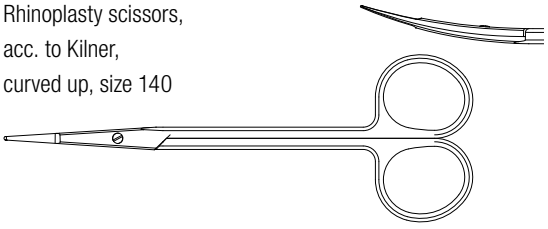


• Sharp/sharp

WT000881 Rhinoplasty scissors, acc. to Walter,
angled, size 100



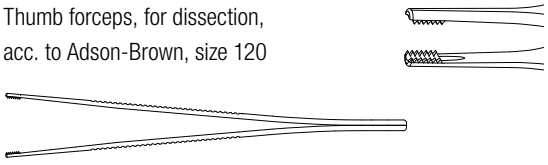
WT000882 Rhinoplasty scissors,
acc. to Kilner,
curved up, size 140



Thumb Forceps

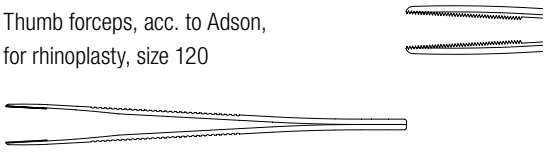
size = total length [mm]

WT000844 Thumb forceps, for dissection,
acc. to Adson-Brown, size 120

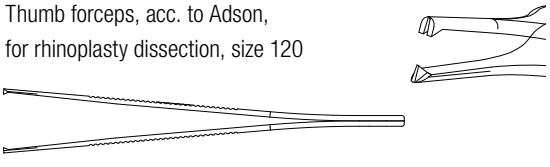


• Side grasping teeth

WT000845 Thumb forceps, acc. to Adson,
for rhinoplasty, size 120



WT000846 Thumb forceps, acc. to Adson,
for rhinoplasty dissection, size 120



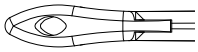
• 1x2 teeth

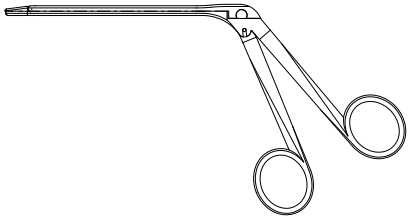
Rhinoplasty Surgery Set

Advanced Rhinoplasty Instruments (cont.)

Nasal Forceps

WT000878 Nasal forceps, acc. to Blakesley, very delicate, size 120

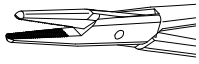


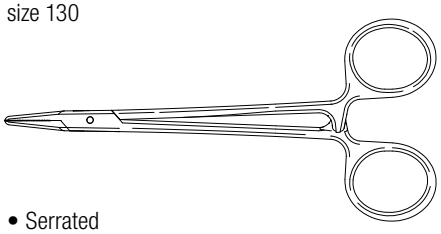


size = working length [mm]

Needle Holder

WT000834 Needle holder, acc. to Halsey, with tungsten carbide, size 130





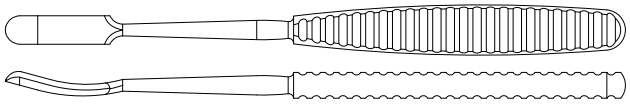
- Serrated

size = total length [mm]

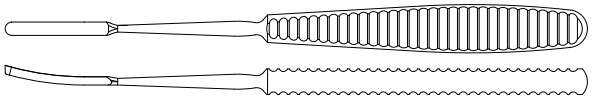
Rasps and Elevator for Rhinoplasty

size = total length [mm]

WT000866 Rasp, acc. to Aufricht, up- and down-cutting, size 185



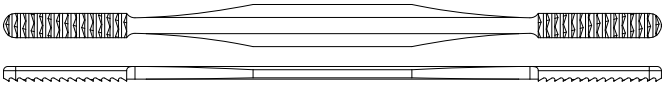
WT000849 Elevator, acc. to Joseph, size 3.0 x 175

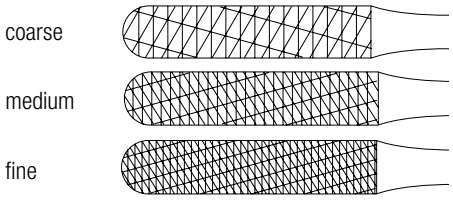


- Slightly curved

Rasp, double-ended, with tungsten carbide,

WT000862 coarse/medium, size 200
WT000863 medium, size 200
WT000864 medium/fine, size 200
WT000865 fine/fine, size 200





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Sinus Surgery

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Explorent Instruments



EXPLORENT INSTRUMENTS

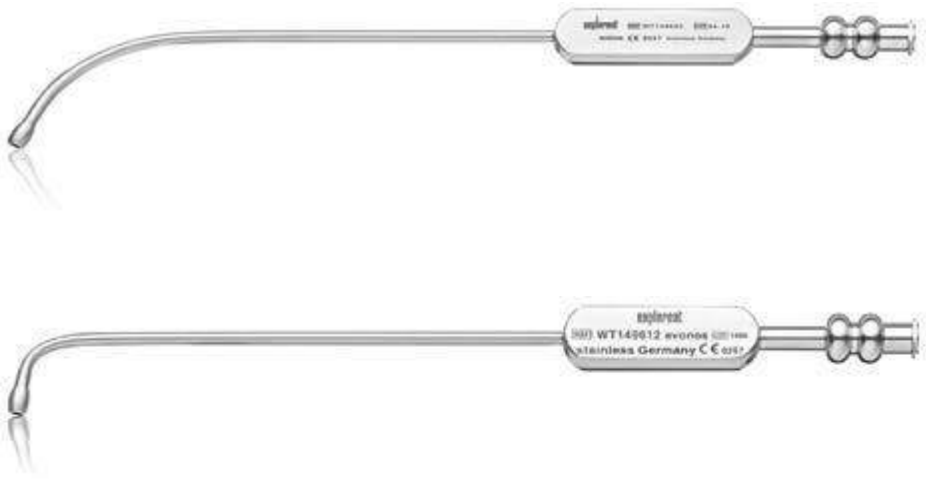
Manufacturer
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

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Antrum Irrigation Cannulas



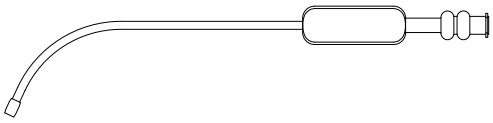
- Long and short curved models
- Malleable versions
- Variety of diameters

EXPLORENT

V. Eicken Antrum Irrigation Cannulas

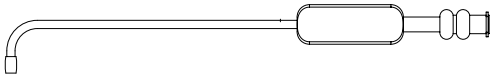
Cannula, acc. to Eicken
long curved,
14.5 cm total length, various outer diameter sizes (mm)

WT149602 Cannula, acc to Eicken, with Luer-Lock,
long curved, size 2.5 x 145
WT149603 Cannula, acc to Eicken, with Luer-Lock,
long curved, size 3 x 145
WT149604 Cannula, acc to Eicken, with Luer-Lock,
long curved, size 4 x 145



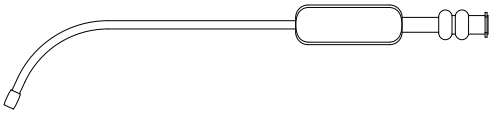
Cannula, acc. to Eicken
short curved,
14.5 cm total length, various outer diameter sizes (mm)

WT149612 Cannula, acc. to Eicken, with Luer-Lock,
short curved, size 2.5 x 145
WT149613 Cannula, acc. to Eicken with Luer-Lock,
short curved, size 3 x 145
WT149614 Cannula, acc. to Eicken with Luer-Lock,
short curved, size 4 x 145

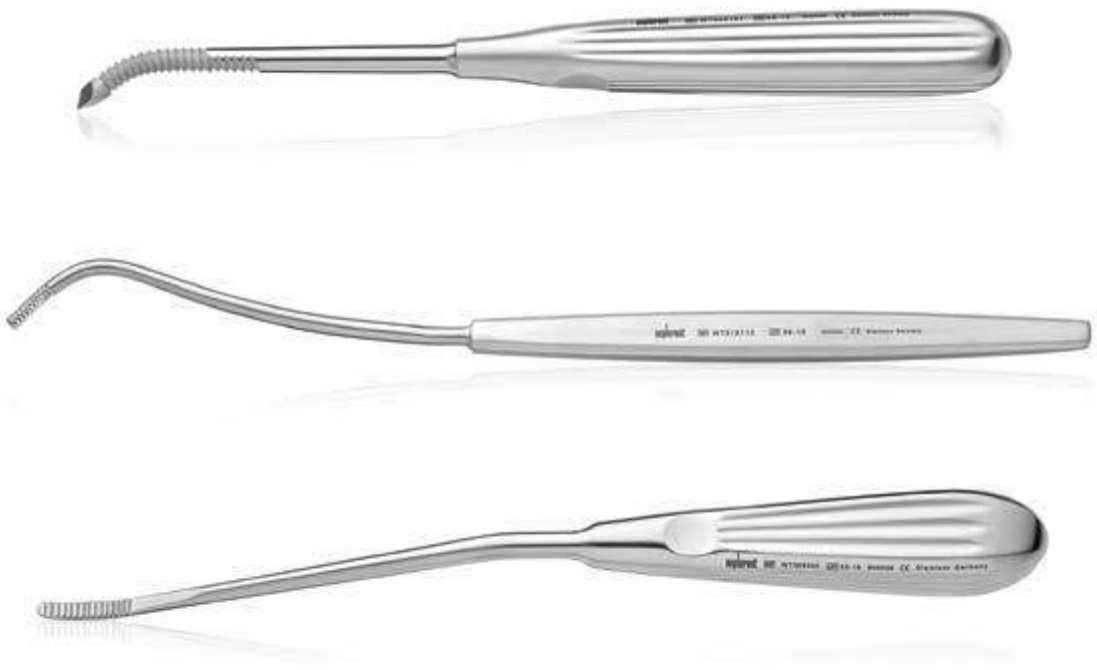


Cannula, acc. to Eicken
long curved, malleable,
14.5 cm total length, various outer diameter sizes (mm)

WT149702 Cannula, acc. to Eicken, with Luer-Lock,
long curved, malleable, size 2.5 x 145
WT149703 Cannula, acc. to Eicken, with Luer-Lock,
long curved, malleable, size 3 x 145
WT149704 Cannula, acc. to Eicken, with Luer-Lock,
long curved, malleable, size 4 x 145



Antrum Rasps

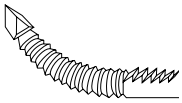


EXPLORENT

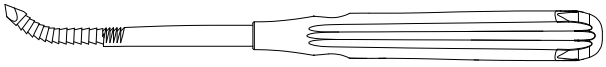
- Models with blunt tip and trocar tip
- Frontal sinus rasps, strong and slender pattern

Antrum and Frontal Sinus Rasps

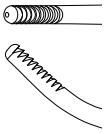
Rasp, vienna type
curved with trocar tip,
18 cm total length, diameter size 6 mm



WT508101 Rasp, Vienna type, with trocar tip, size 6.0 x 180



Rasp, acc. to Wigand
curved, 2.8/ 2.3 mm width, backward cutting,
21 cm total length



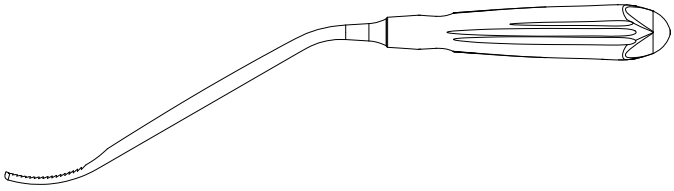
WT518110 Rasp, acc to Wigand, strong
WT518111 Rasp, acc to Wigand, slender



Rasp, acc. to Watson-Williams
blunt, 3.7 mm width, backward cutting,
23 cm total length



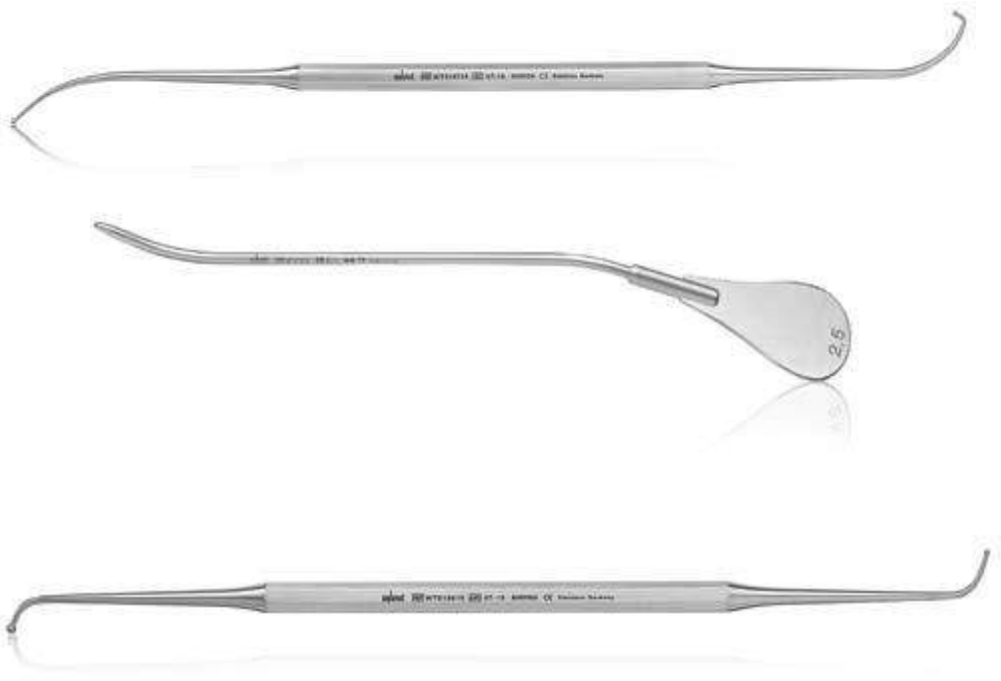
WT508500 Rasp, acc. to Watson-Williams, size 230



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Ostium Seekers, Bougies



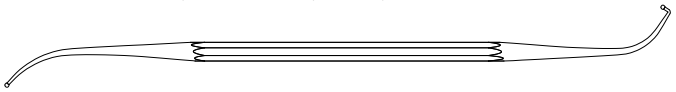
EXPLORENT

- S-shaped models
- Double-ended models

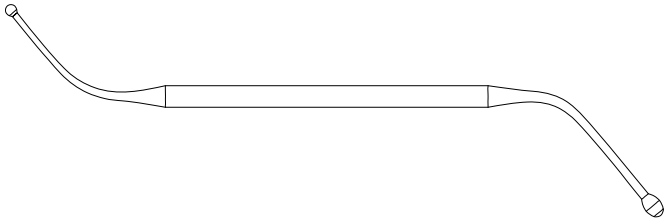
Frontal Sinus Ostium Seeker

Probe
double-ended, curved,
total length 21 cm, ball size 1.3 mm

WT518725 Probe, double-ended, curved, size 210



WT230725 Probe, double-ended



Ritter-Halle Frontal Sinus Bougie

Dilator, acc. to Ritter-Halle
14.5 cm total length, various diameters (mm)

WT507025 Dilator, acc. to Ritter-Halle, size 2.5 x 145
WT507030 Dilator, acc. to Ritter-Halle, size 3.0 x 145
WT507040 Dilator, acc. to Ritter-Halle, size 4.0 x 145
WT507050 Dilator, acc. to Ritter-Halle, size 5.0 x 145



Maxillary Sinus Ostium Seeker

Probe
double ended, ball-shaped ends,
1,2 mm ball size, 2 mm diameter,
19 cm total length

WT518619 Probe, double-ended, ball-shaped ends, size 1.2 x 2.0 190



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Needles, Elevators, Knives



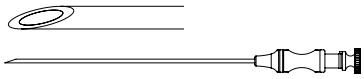
- Antrum trocar needle, with different diameters
- Double-ended elevators
  Micro elevators, curved and angled
  Suction elevator
- Round fontanelle knife for paranasal sinus surgery
- Sickle knives:
  - Straight and bayonet-shaped shaft
  - With blunt and pointed tip
  - Curved to left and curved to right

EXPLORENT

Lichtwitz Antrum Trocar Needles

Trocar, acc. to Lichtwitz
Essentially facilitate duraplasty during endonasal surgery.
10 cm working length, various outer diameter sizes (mm)

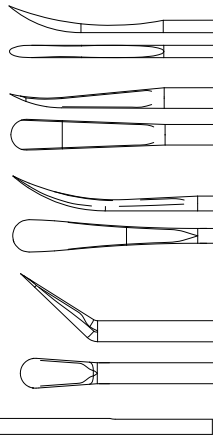
WT149315 Trocar, acc. to Lichtwitz, size 1.5 x 100
WT149318 Trocar, acc. to Lichtwitz, size 1.8 x 100
WT149320 Trocar, acc. to Lichtwitz, size 2.0 x 100

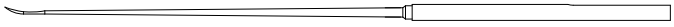


Draf Micro Elevators

Raspatory, acc. to Draf
sharp, 25 cm length, various widths (mm),
15 cm working length

WT339001 Raspatory, acc. to Draf, micro, slightly curved, size 1.0 x 250
WT339002 Raspatory, acc. to Draf, micro, slightly curved, size 3.0 x 250
WT339003 Raspatory, acc. to Draf, micro, strongly curved size 3.0 x 250
WT339004 Raspatory, acc. to Draf, micro, curved size 4.0 x 250



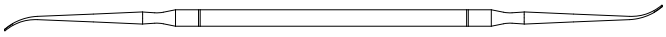


Freer Elevator

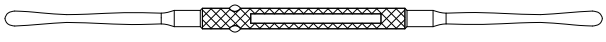
Elevator, acc. to Freer
sharp/blunt, 4.5 mm width,
20 cm total length



WT315000 Elevator, acc. to Freer, double-ended, american type, size 200

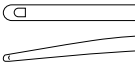


WT230583 Elevator, acc. to Freer, double-ended, size 180

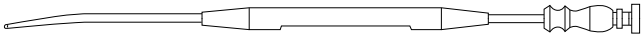


Gorney Elevator

Elevator, acc. to Gorney
19 cm total length, 3 mm tip



WT405800 Elevator, acc. to Gorney, with suction channel size 3.0 x 190

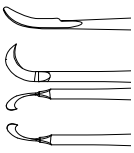


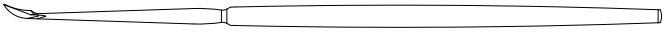
Sickle Knives

Sickle knife
double cutting, various tips,
19 cm total length

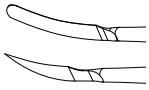


WT518301 Sickle knife, pointed, size 190
WT518302 Sickle knife, blunt, size 190
WT518303 Sickle knife, blunt, curved left, size 190
WT518304 Sickle knife, blunt, curved right, size 190





Sickle knife "Richards"
19 cm total length



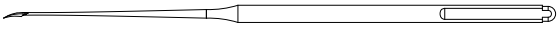
WT230580 Sickle knife "Richards", blunt, size 190
WT230582 Sickle knife "Richards", sharp, size 190



Sickle knife, acc. to Plester
16,5 total length, 5 mm blade



WT253600 Sickle knife, acc. to Plester, straight, size 165



Needles, Elevators, Knives (cont.)

Moriyama Fontanelle Knife

Knife, acc. to Moriyama
round tip, curved,
20 cm total length, 6 mm width



WT326820 Knife, acc. to Moriyama, curved, size 200



Draf Knives (cont.)

Sickle knife, acc. to Draf
19 cm total length, 10 mm blade

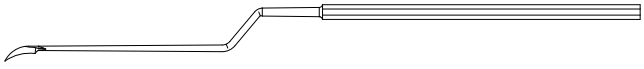


WT339101 Sickle knife, acc. to Draf, straight, size 190

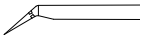


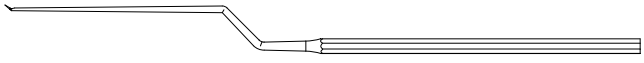
WT339102 Sickle knife, acc. to Draf, bayonet shaped, size 190





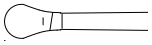
WT339302 Round knife, acc. to Draf, bayonet shaped, size 2.0 x 190



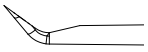


Draf Knives (cont.)

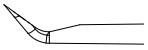
Round knife, acc. to Draf
19 cm length, various diameters (mm)



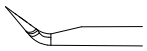
WT339201 Round knife, acc. to Draf, angled, straight handle, size 1.5 x 190



WT339202 Round knife, acc. to Draf, bayonet shaped, size 1.5 x 190



WT339301 Round knife, acc. to Draf, straight handle, size 2.0 x 190



WT339302 Round knife, acc. to Draf, bayonet shaped, size 2.0 x 190



Incision knife, acc. to Draf
19 cm length



WT339401 Incision knife, acc. to Draf, straight, size 190

WT339402 Incision knife, acc. to Draf, bayonet shaped, size 190



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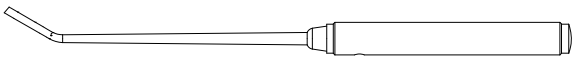
Antrum Curettes, Sinuscopy Trocars



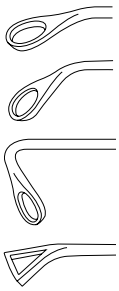
- Antrum, frontal sinus curettes:
  Round, oval and oblong models,
  double-ended, malleable models
- Sinuscopy trocars:
  for use with sinuscopes of 2.7 mm, 3.0 mm or 4.0 mm diameter,
  models with billshaped and oblique beak

EXPLORENT

Coakley Antrum Curettes

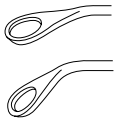


Curette, acc. to Coakley
17 cm total length, 7,5 mm width



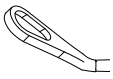
WT503001 Curette, acc. to Coakley, oval, slightly curved, size 7.5 x 170
WT503002 Curette, acc. to Coakley, oval, strong curved, size 7.5 x 170
WT503003 Curette, acc. to Coakley, oval, retrograde curved, size 7.5 x 170
WT503006 Curette, acc. to Coakley, triangular, strong curved, size 7.5 x 170

Curette, acc. to Coakley
17 cm total length, 6 mm width

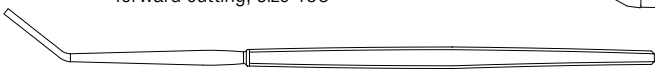


WT503004 Curette, acc. to Coakley, oval, slightly curved, size 6.0 x 170
WT503005 Curette, acc. to Coakley, oval, strong curved, size 6.0 x 170

Curette, acc. to Coakley
19,5 cm total length

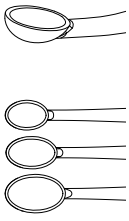


WT230585 Antrum curette, acc. to Coakley, forward cutting, size 195



Antrum Curettes

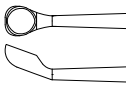
Curette
slightly curved, various oval sizes (mm), 19 cm total length



WT518001 Curette, oval, size 7.0 x 190
WT518002 Curette, oval, size 8.0 x 190
WT518003 Curette, oval, size 9.0 x 190



Curette
19 cm total length, diameter size (mm)

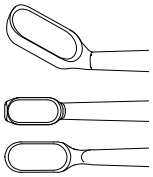


WT518101 Curette, round, size 5.0 x 190

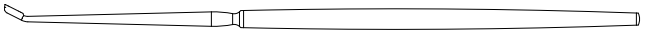


Antrum Curettes (cont.)

Curette
19 cm total length, various oval sizes (mm)



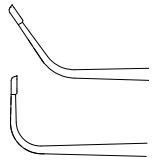
WT518102 Curette, oval, size 6.0 x 3.0 190
WT518103 Curette, oval, size 9.0 x 4.0 190



Curette
oval size 3 mm, 55°/ 90° curved, 19 cm total length



WT518104 Curette, oval, small curved 55, size 3.0 x 190
WT518105 Curette, oval, small curved 90, size 3.0 x 190

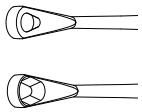




Curette
19 cm total length, diameter size (mm)

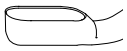


WT518203 Curette, forwand cutting, small, size 6.8 x 190
WT518204 Curette, backward cutting, small, size 6.8 x 190





Curette
10 cm total length, 7.0 mm width



WT230715 Curette, acc. to Bent, curved, oval, size 7.0 x 10





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Antrum Curettes, Sinuscopy Trocars (cont.)

Faulkner Antrum Curette



Curette, acc. to Faulkner
double ended, 21 cm total length,
5.5 and 7.5 mm inner diameter

WT504000 Curette, acc. to Faulkner,
double-ended, size 5.5/7.5 x 210



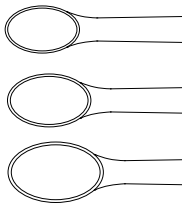
Halle Antrum Curette

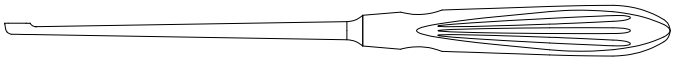
Curette, acc. to Halle
malleable,
21 cm total length,
various oval sizes (length, width, mm)

WT506001 Curette, acc. to Halle, malleable,
size 8.0 x 5.5 210

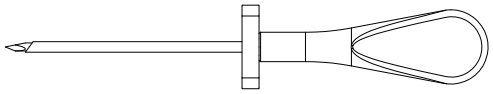
WT506002 Curette, acc. to Halle, malleable,
size 9.0 x 6.0 210

WT506003 Curette, acc. to Halle, malleable,
size 10 x 7.0 210





Sinuscopy Trocars



Trocar
for use with 2.7 mm telescopes,
oblique beak,
7 cm cannula length, 3.4 mm outer diameter

WT518503 Trocar, oblique, for endoscopes,
size 2.7 x 70



Trocar
for use with 3 mm telescopes,
7 cm cannula length, 4 mm outer diameter

WT518504 Trocar, oblique, for endoscopes,
size 3.0 x 70



Trocar
for use with 4 mm telescopes,
5 mm outer diameter, 8 cm cannula length

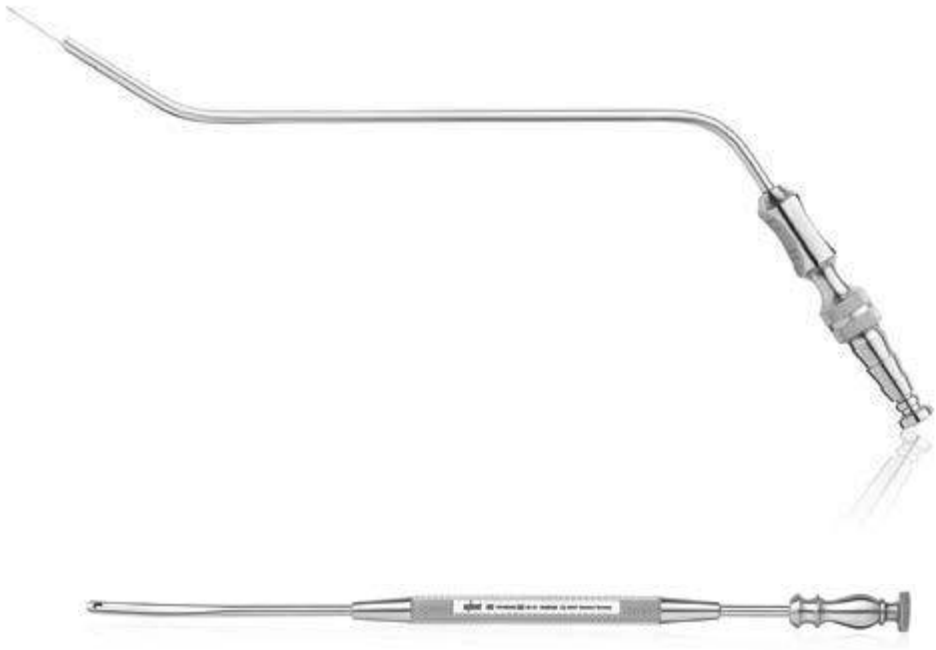
WT518400 Trocar, beak-shaped,
for endoscopes, size 4 x 80



WT518500 Trocar, oblique,
for endoscopes, size 4 x 80



Suction Tubes



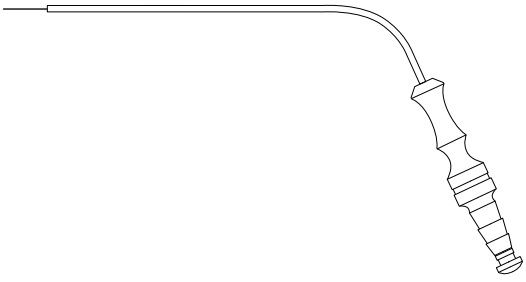
- Angled models with cut-off hole
- Models with ball-ended tip
- Models with closed blunt distal end and lateral holes
- Suction elevator model

EXPLORENT

Frazier Suction Tube

Suction tube, acc. to Frazier
with mandrin, stainless,
9 cm working length, various diameters (mm)

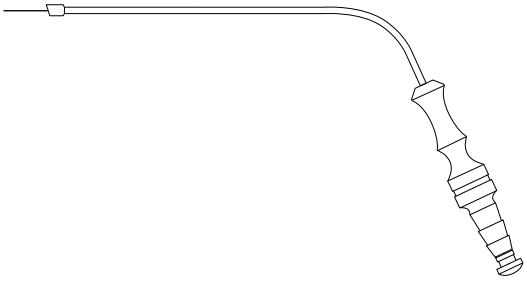
WT210008	Suction tube, acc. to Frazier, with cut-off, size 2.7 x 90
WT210010	Suction tube, acc. to Frazier, with cut-off, size 3.3 x 90
WT210012	Suction tube, acc. to Frazier, with cut-off, size 4.0 x 90
WT210015	Suction tube, acc. to Frazier, with cut-off, size 5.0 x 90



WT210115	Mandrin, for suction tube WT210015, size 0.6 (not shown)

Suction tube, acc. to Frazier
ball-ended,
9 cm working length, various diameter sizes (mm)

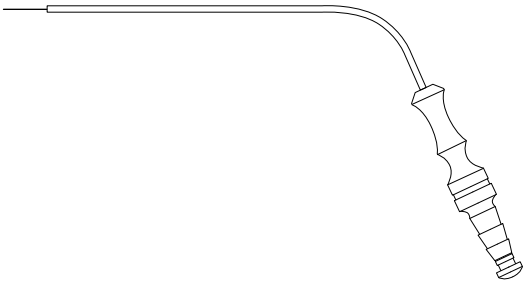
WT210016	Suction tube, acc. to Frazier, ball-ended, with cut off, size 2.0 x 90
WT210018	Suction tube, acc. to Frazier, ball-ended, with cut off, size 2.7 x 90
WT210020	Suction tube, acc. to Frazier, ball-ended, with cut off, size 3.3 x 90
WT210025	Suction tube, acc. to Frazier, ball-ended, with cut off, size 5.0 x 90



Frazier Suction Tube (2)

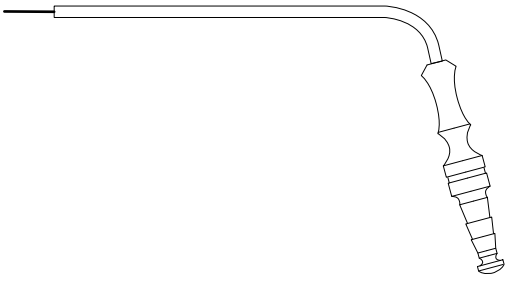
Suction tube, acc. to Frazier
graduated at 5 – 9 cm,
9 cm working length, various diameters (mm)

WT211006	Suction tube, acc. to Frazier, with scaling, with cut-off, size 2.0 x 90
WT211008	Suction tube, acc. to Frazier, with scaling, with cut-off, size 2.7 x 90
WT211009	Suction tube, acc. to Frazier, with scaling, with cut-off, size 3.0 x 90
WT211010	Suction tube, acc. to Frazier, with scaling, with cut-off, size 3.3 x 90
WT211012	Suction tube, acc. to Frazier, with scaling, with cut-off, size 4.0 x 90
WT211015	Suction tube, acc. to Frazier, with scaling, with cut-off, size 5.0 x 90



Suction tube, acc. to Ferguson-Frazier
strongly curved,
10 cm working length, various diameters (mm)

WT211806	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 2.0 x 100
WT211808	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 2.7 x 100
WT211809	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 3.0 x 100
WT211810	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 3.3 x 100
WT211812	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 4.0 x 100
WT211814	Suction tube, acc. to Ferguson-Frazier, with cut-off, strongly curved, size 5.0 x 100



Suction Tubes
(cont.)

Frazier Suction Tube (3)



Suction tube, acc. to Frazier
with cut-off hole, with mandrin, Luer,
closed blunt distal end with holes,
15 cm working length, various diameters (mm)

WT350003	Suction tube, acc. to Frazier, distal tip closed, holes on the side, size 3.0
WT350004	Suction tube, acc. to Frazier, distal tip closed holes on the side, size 4.0



Suction tube, acc. to Frazier
with cut-off hole, with mandrin, Luer,
15 cm working length, various diameters (mm)

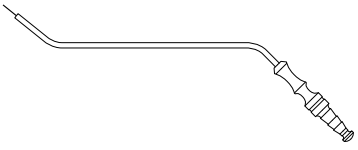
WT350006	Suction tube, acc. to Frazier, with cut-off, size 2.0 x 150
WT350008	Suction tube, acc. to Frazier, with cut-off, size 2.7 x 150
WT350010	Suction tube, acc. to Frazier, with cut-off, size 3.3 x 150
WT350012	Suction tube, acc. to Frazier, with cut-off, size 4.0 x 150
WT350015	Suction tube, acc. to Frazier, with cut-off, size 5.0 x 150



Kahn-Frazier Frontal Sinus Tube

Suction tube, acc. to Kahn-Frazier
25 mm angled tip, slightly curved,
cut-off hole,
12 cm working length, 3.3 mm diameter

WT211610	Suction tube, acc. to Kahn-Frazier, malleable, malleable, with cut-off, size 3.3 x 120

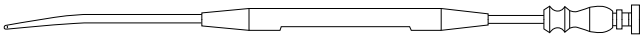


Gorney Suction Elevator



Elevator, acc. to Gorney
with mandrin,
3 mm tip, 19 cm length

WT405800	Elevator, acc. to Gorney, with suction channel, size 3.0 x 190



Retractors and Spatulas



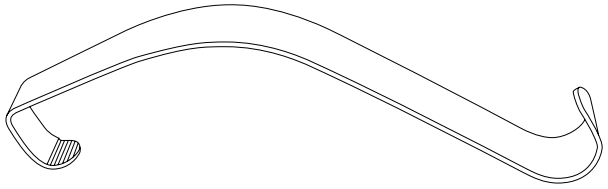
- Orbital retractor, double-ended
- Standard retractor with grid handle
- Flexible spatula

EXPLORENT

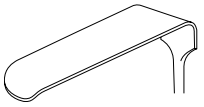
Retractors and Spatulas

Retractor, acc. to Hayek
18 cm total length, tip 14 x 21 mm, serrated

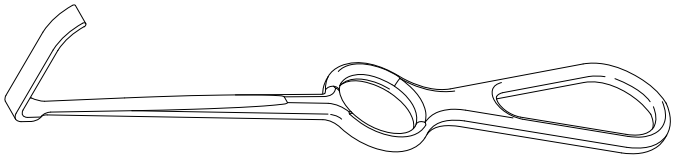
WT500000 Retractor, acc. to Hayek, size 14 x 21 180



Retractor, acc. to Langenbeck
various working lengths (mm),
various diameters (mm),
21 cm total length



WT502501 Retractor, acc. to Langenbeck, size 35 x 7.0 210
WT502502 Retractor, acc. to Langenbeck, size 35 x 10 210
WT502503 Retractor, acc. to Langenbeck, size 35 x 15 210
WT502504 Retractor, acc. to Langenbeck, size 35 x 20 210
WT502505 Retractor, acc. to Langenbeck, size 40 x 11 210

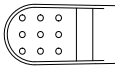


Retractor
orbital, double-ended,
25 cm total length, front/back width (mm)

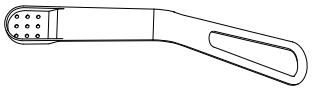
WT507100 Retractor, orbital , size 22/26 250



Spatula, acc. to Tapia
perforated basket,
9 cm total length, various widths (mm)



WT541009 Spatula, acc. to Tapia, with perforated basket, size 20 x 90
WT541012 Spatula, acc. to Tapia, with perforated basket, size 25 x 90



Tongue Depressors

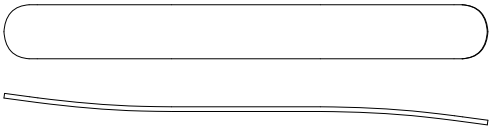
Tongue depressor
flexible,
20 cm total length, various widths (mm)

WT507212 Tongue depressor, flexible, size 12 x 200
WT507217 Tongue depressor, flexible, size 17 x 200



Richards tongue depressor
ribbon type, malleable,
14,5 cm total length, 16 mm width

WT550515 Tongue depressor, acc. to Richards, ribbon type, malleable, size 16 x 145



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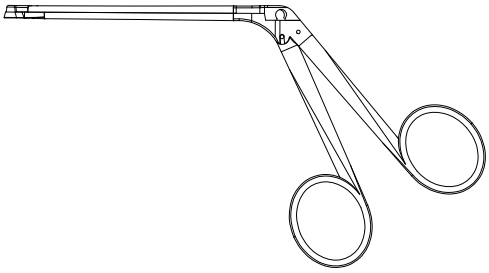
Biopsy Forceps for Nasal Mucosa



- The “guillotine effect” biopsy forceps allow one to take specimens without damaging the epithelium and compressing the lamina propria. The specimen can be taken in an adequate size (approx. 3 mm diameter) and with a sufficient depth.
- Repeated biopsies on the same patient require a method that is quick and easily performed, thereby making the procedure as comfortable as possible for the patient.
- The knife-sharp edge of the cutting cup hits the sharp edge of the conical receptacle without putting tangential pressure onto the specimen.
- With the angled type, even biopsies of hypertrophic turbinates can be taken without difficulty.

EXPLORENT

Fokkens Biopsy Forceps



Punch forceps, acc. to Fokkens
straight, 3 mm cutting width, round,
8 cm working length

WT336000 Punch forceps, acc. to Fokkens,
for biopsies,
cupped jaws, straight, size 3



Punch forceps, acc. to Fokkens
upcurved, 3 mm cutting width, round,
11 cm working length



WT336045 Punch forceps, acc. to Fokkens,
for biopsies,
cupped jaws, curved up, size 3

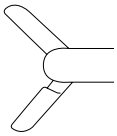
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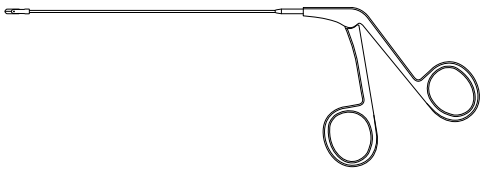
Biopsy and Polyp Grasping Forceps

Biopsy and Grasping Forceps

Grasping forceps
oval cupped, double-action jaws,
15 cm working length, 1.5 mm shaft diameter,
2.5 mm jaws diameter

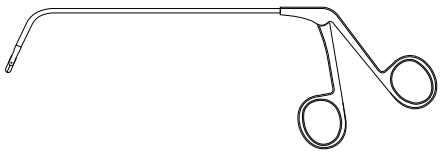


WT515000 Grasping forceps, for biopsies, double-action jaws, straight, size 2.5 x 150



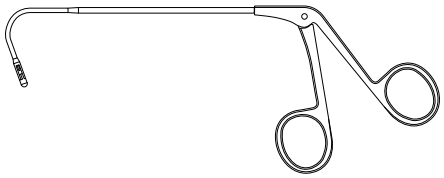
Grasping forceps
oval cupped, double-action jaws,
12 cm working length, 3 mm jaws diameter,
shaft angled down 70°

WT515070 Grasping forceps, for biopsies, oval-cupped, double-action jaws, size 3.0 x 120



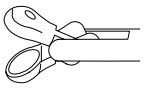
Grasping forceps
oval cupped, double-action jaws,
11 cm working length, 3 mm jaws diameter,
shaft angled down 110°

WT515110 Grasping forceps, for biopsies, oval-cupped, double-action jaws, size 3 x 11



Biopsy and Grasping Forceps (2)

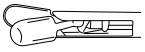
Grasping forceps
malleable shaft end, double-action jaws,
oval cupped, opening vertically,
18 cm working length, 4 mm jaws diameter



WT515005 Grasping forceps, for biopsies, malleable shaft, double-action, size 4.0 x 180

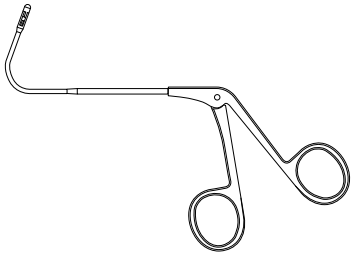


Biopsy forceps
oval cupped, double-action jaws,
18 cm working length, 2.6 mm diameter,
110° upturned



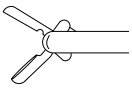
WT335110 Biopsie forceps, oval cups, double-action jaws, horizontal opening, size 180

WT335111 Biopsie forceps, oval cups, double-action jaws, vertical opening, size 180



Biopsy and Grasping Forceps (3)

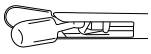
Biopsy forceps,
oval cupped, double-action jaws,
19.5 cm working length, 2.6 mm diameter,
70° upturned



WT335170 Biopsie forceps, oval cups,
double-action jaws,
horizontal opening, size 195

WT335171 Biopsie forceps, oval cups,
double-action jaws,
vertical opening, size 195

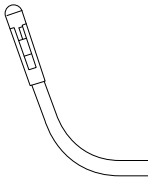
Biopsy forceps
oval cupped, double-action jaws,
22 cm working length, 4 mm diameter,
110° upturned



WT335114 Biopsy forceps, oval cups,
double-action jaws,
horizontal opening, size 220

WT335124 Biopsy forceps, oval cups,
double-action jaws,
vertical opening, size 220

Biopsy forceps
curved 70°, 2.0 mm diameter

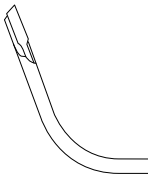


WT230711 Biopsy forceps, double spoon,
curved 70, short,
horizontal opening, size 2.0

WT230712 Biopsy forceps, double spoon,
curved 70, short,
vertical opening, size 2.0

WT230710 Biopsy forceps, double spoon,
curved 70,
horizontal opening, size 2.0

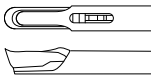
Biopsy forceps
curved 70°, 2.5 mm diameter



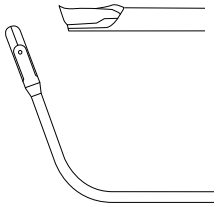
WT230593 Biopsy forceps, through-cutting,
curved 70, short,
vertical opening, size 2.5

Biopsy and Grasping Forceps (4)

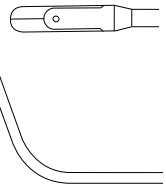
Biopsy forceps
curved 70°, 2.0 mm diameter



WT230577 Biopsy forceps, through-cutting,
curved 70, vertical opening, size 2.0



Biopsy forceps
curved 70°, 17,5 cm working length



WT230575 Biopsy forceps, double spoon,
curved 70, vertical opening, size 175



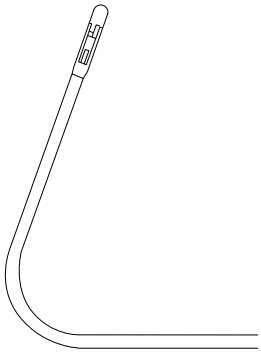
Punch forceps, for biopsies
2.0 mm diameter

WT336300 Punch forceps, for biopsies,
through-cutting, straight, size 2.0

Biopsy forceps
curved 110°

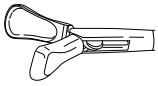


WT230578 Biopsy forceps, double spoon,
curved 110



Binner Polyp Grasping Forceps

Grasping forceps, acc. to Binner, for polyps
pear-shaped, jaws 3 x 1.5 mm,
21 cm working length



WT335300 80° upturned, opening horizontally
WT335304 45° upturned, opening horizontally
WT335301 80° upturned, shaft curved left
WT335302 80° upturned, shaft curved right

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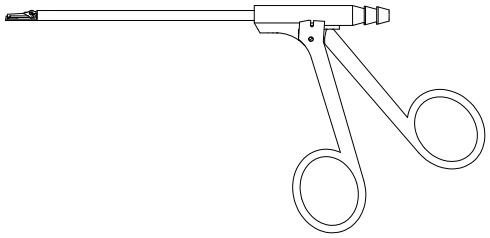
Suction Forceps



- Nasal suction forceps, biopsy suction punches
- Through-cutting models
- With integrated suction channel
- Straight and upturned models

EXPLORENT

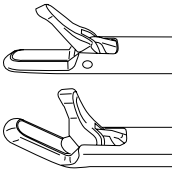
Biopsy Suction Punches



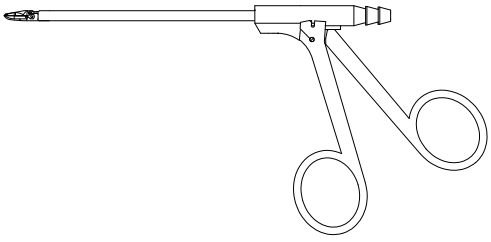
Suction punch forceps
through-cutting, with suction channel,
straight/ 30° upcurved,
10 cm working length, 2 mm cutting width

WT335200 Suction punch forceps, though-cutting, straight, size 2.0 x 100

WT335201 Suction punch forceps, though-cutting, upcurved, size 2.0 x 100



Blakesley Suction Punches



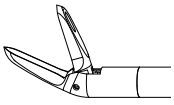
Suction punch, acc. to Blakesley
straight, with suction channel,
4 mm diameter,
10 cm working length, various cutting lengths (mm)



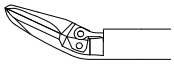
WT336800 Suction punch, acc. to Blakesley, straight, size 2.5 x 100

WT336801 Suction punch, acc. to Blakesley, straight, size 3.5 x 100

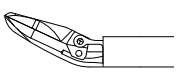
Suction punch, acc. to Blakesley
with suction channel, 30° upcurved,
4 mm diameter,
10 cm working length, various cutting lengths (mm)



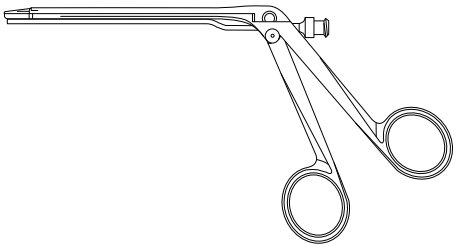
WT336900 Suction punch, acc. to Blakesley, curved upward size 2.5 x 100



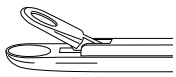
WT336901 Suction punch, acc. to Blakesley, curved upward size 3.5 x 100



Blakesley Suction Forceps



Suction forceps, acc. to Blakesley
for biopsy and grasping,
suction channel,
11 cm working length, various cutting lengths (mm)

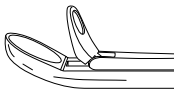


WT337001 Suction forceps, acc. to Blakesley, straight, size 3.5 x 110

WT337002 Suction forceps, acc. to Blakesley, straight, size 3.5 x 110

WT337003 Suction forceps, acc. to Blakesley, straight, size 5.0 x 110

Suction forceps, acc. to Blakesley
for biopsy and grasping,
suction channel, 11 cm working length,
various cutting lengths (mm)
45° upturned

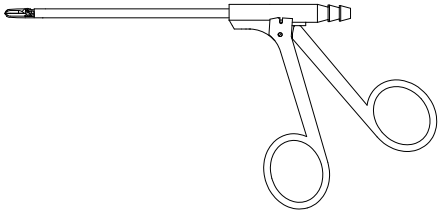


WT337101 Suction forceps, acc. to Blakesley, curved, size 3.5 x 110

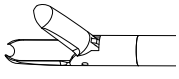
WT337102 Suction forceps, acc. to Blakesley, curved, size 4.0 x 110

WT337103 Suction forceps, acc. to Blakesley, curved, size 5.0 x 110

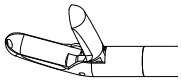
Takahashi Suction Punches



Suction punch, acc. to Takahashi
for biopsy and grasping, with suction channel,
straight/ 30° upcurved,
10 cm working length, 4 mm shaft diameter



WT338001 Suction punch, acc. to Takahashi, straight, size 3.5 x 100



WT338101 Suction punch, acc. to Takahashi, curved up, size 3.5 x 100

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Antrum Grasping Forceps

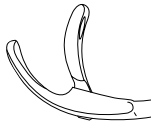


EXPLORENT

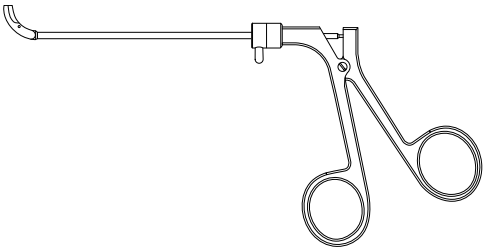
- 360° rotatable models
- Retrograde opening jaws 120°

Antrum Grasping Forceps

Grasping forceps
finger post facilitates rotation,
retrograde opening jaws 120°,
10 cm working length, 360° rotatable



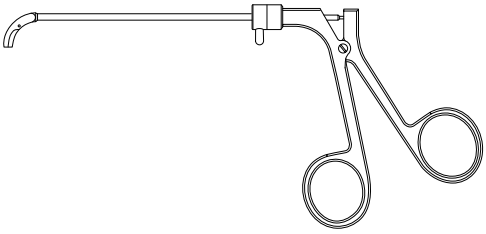
WT515510 Grasping forceps, rotatable, retrograde opening jaws, curved down, size 100



Grasping forceps
for endonasal removal of cysts and polyps,
retrograde opening jaws 120°,
10 cm working length



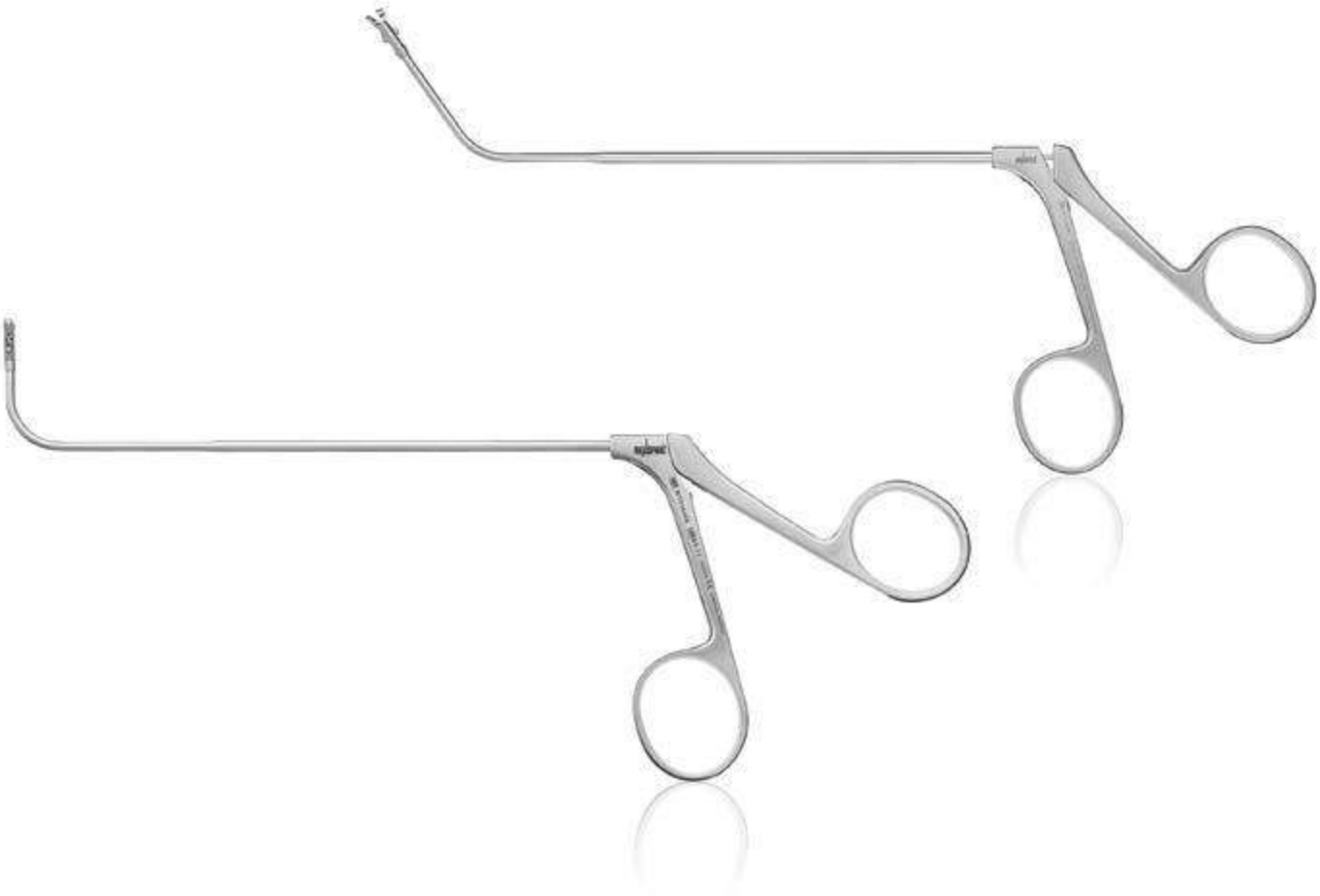
WT515500 Grasping forceps, retrograde opening jaws, curved down, size 100



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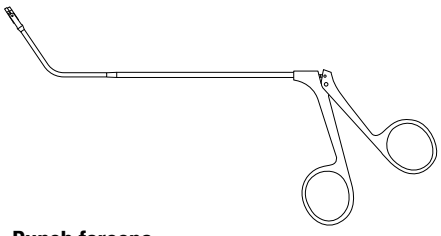
Punch and Giraffe Forceps



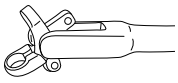
- Frontal sinus punch forceps:
  through-cutting models with round cutting jaws
- Giraffe forceps:
  models with round and oval cupped jaws
- Double-action jaws
- Models with vertical and horizontal opening jaws
- Upturned shaft

EXPLORENT

Frontal Sinus Punch Forceps



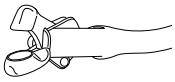
Punch forceps
double-action jaws, cupped,
2 mm cutting diameter,
14.5 cm working length, 55° upturned



WT336201 Punch forceps, with cupped jaws,
through-cutting, curved up 55, size 2.0 x 145

WT336202 Punch forceps, with cupped jaws,
through-cutting, curved up 55, size 145

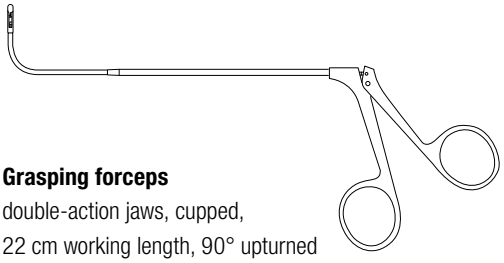
Punch forceps
double-action jaws, 2 mm, cupped,
14.5 cm working length, 90° upturned



WT336203 Punch forceps, with cupped jaws,
through-cutting, curved up 90, size 145

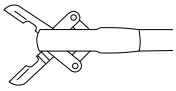
WT336204 Punch forceps, with cupped jaws,
through-cutting, curved up 90, size 145

90° Giraffe Forceps

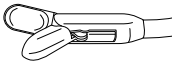


Grasping forceps
double-action jaws, cupped,
22 cm working length, 90° upturned

WT335405 Grasping forceps,
with cupped jaws, vertical opening,
curved 90, size 2 x 220

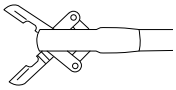


WT335406 Grasping forceps, with cupped jaws,
horizontal opening,
curved 90, size 2 x 220

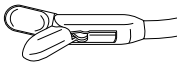


Grasping forceps
double-action jaws, cupped,
22 cm working length, 90° upturned

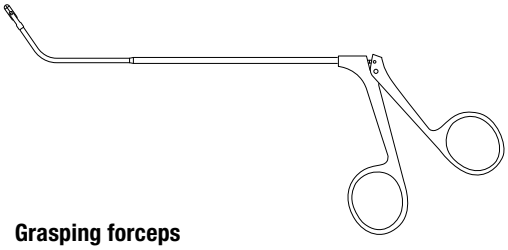
WT335409 Grasping forceps,
with cupped jaws,
vertical opening, curved 90, 4 x 220



WT335410 Grasping forceps,
with cupped jaws,
horizontal opening, curved 90, 4 x 220

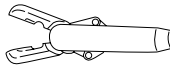


55° Giraffe Forceps

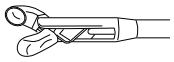


Grasping forceps
double-action jaws, cupped,
23 cm working length, 55° upturned

WT335403 Grasping forceps,
with cupped jaws,
vertical opening, curved 55, size 4 x 230

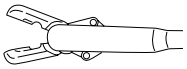


WT335404 Grasping forceps,
with cupped jaws,
horizontal opening, curved 55, size 4 x 230

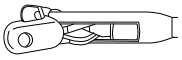


Grasping forceps
double-action jaws, cupped,
23 cm working length, 55° upturned

WT335401 Grasping forceps,
with cupped jaws,
vertical opening, curved 55, size 3 x 230

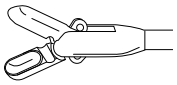


WT335402 Grasping forceps,
with cupped jaws,
horizontal opening, curved 55, size 3 x 230

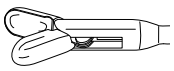


Grasping forceps
double-action jaws, cupped,
23 cm working length, 55° upturned

WT335413 Grasping forceps,
with cupped jaws,
vertical opening, curved 55, size 4 x 230



WT335414 Grasping forceps,
with cupped jaws,
horizontal opening, curved 55, size 4 x 230



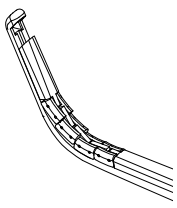
Punch Forceps

Punch forceps, for frontal sinus
12,5 cm working length, various diameters (mm)

WT000884 Punch forceps, for frontal sinus,
small, size 2.0 x 125

WT000885 Punch forceps, for frontal sinus,
standard, size 3.0 x 125

WT000886 Punch forceps, for frontal sinus,
large, size 5.0 x 125



Nasal Forceps

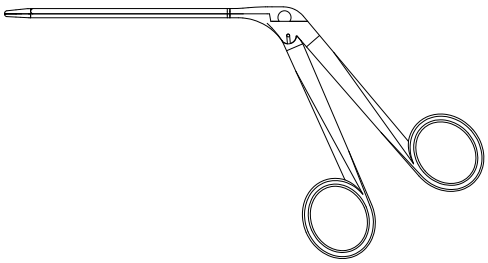


Large variety of models allowing access to all anatomies within the nose and sinus cavities.

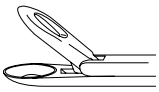
- Straight and upcurved models
- Models with basket
- Models with 360° rotatable shaft

EXPLORENT

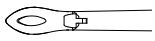
Blakesley Nasal forceps



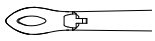
Nasal forceps, acc. to Blakesley
straight, 11.5 cm working length,
various jaws widths (mm)



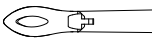
WT330000 Nasal forceps, acc. to Blakesley, straight, size 3.0 x 115



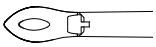
WT330001 Nasal forceps, acc. to Blakesley, straight, size 3.5 x 115



WT330002 Nasal forceps, acc. to Blakesley, straight, size 4.0 x 115

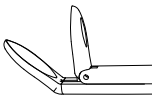


WT330003 Nasal forceps, acc. to Blakesley, straight, size 5.0 x 115

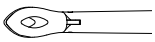


WT330004 Nasal forceps, acc. to Blakesley, straight, size 6.0 x 115

Nasal forceps, acc. to Blakesley
45° upcurved, 11.5 cm working length,
various jaws widths (mm)



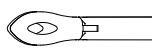
WT330100 Nasal forceps, acc. to Blakesley, curved up 45, size 3.0 x 115



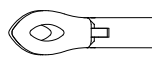
WT330101 Nasal forceps, acc. to Blakesley, curved up 45, size 3.5 x 115



WT330102 Nasal forceps, acc. to Blakesley, curved up 45, size 4.0 x 115

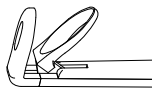


WT330103 Nasal forceps, acc. to Blakesley, curved up 45, size 5.2 x 115

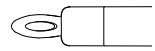


WT330104 Nasal forceps, acc. to Blakesley, curved up 45, size 6.0 x 115

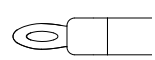
Nasal forceps, acc. to Blakesley
90° upcurved, 10 cm working length,
various jaws sizes (mm)



WT330200 Nasal forceps, acc. to Blakesley curved up 90, size 3.0 x 100



WT330201 Nasal forceps, acc. to Blakesley curved up 90, size 3.5 x 100



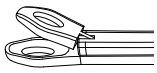
WT330202 Nasal forceps, acc. to Blakesley curved up 90, size 4.0 x 100



WT330203 Nasal forceps, acc. to Blakesley curved up 90, size 5.0 x 100

Blakesley Nasal Forceps (2)

Nasal forceps, acc. to Blakesley
straight, 15 cm working length,
various jaws sizes (mm)



WT331501 Nasal forceps, acc. to Blakesley, straight, size 3.5 x 150

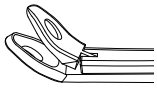


WT331502 Nasal forceps, acc. to Blakesley, straight, size 4.0 x 150



WT331503 Nasal forceps, acc. to Blakesley, straight, size 5.0 x 150

Nasal forceps, acc. to Blakesley
45° upcurved, 15 cm working length,
various jaws sizes (mm)



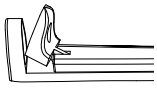
WT331601 Nasal forceps, acc. to Blakesley, 45 curved up, size 3.5 x 150



WT331602 Nasal forceps, acc. to Blakesley, 45 curved up, size 4.0 x 150



Nasal forceps, acc. to Blakesley
90° upcurved, 15 cm working length,
various jaws sizes (mm)



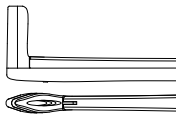
WT331701 Nasal forceps, acc. to Blakesley, 90 curved up, size 3.5 x 150



WT331702 Nasal forceps, acc. to Blakesley, 90 curved up, size 4.0 x 150



Nasal forceps, acc. to Blakesley
upcurved, 17,5 cm working length,
3.6 mm jaws size



WT230708 Nasal forceps, acc. to Blakesley, curved up, size 3.6 x 175

Nasal forceps, acc. to Blakesley
straight, 17 cm working length, various jaws sizes



WT342100 Nasal forceps, acc. to Blakesley, straight, size 0, 170

WT342101 Nasal forceps, acc. to Blakesley, straight, size 1, 170

Nasal forceps, acc. to Blakesley
45° upcurved, 17 cm working length, various jaws sizes



WT342200 Nasal forceps, acc. to Blakesley, 45 curved up, size 0, 170

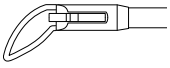
WT342201 Nasal forceps, acc. to Blakesley, 45 curved up, size 1, 170

Nasal Forceps
(cont.)

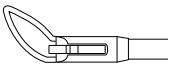
Blakesley Antrum Forceps

Nasal forceps, acc. to Blakesley
9.5 x 4.5 mm, 10 cm working length

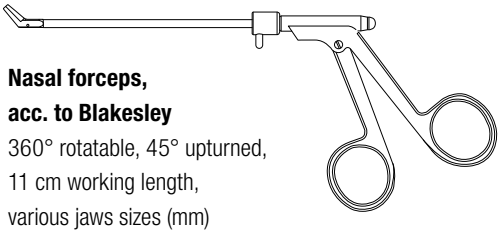
WT330500 Nasal forceps, acc. to Blakesley with tubular shaft, curved to left, size 100



WT330600 Nasal forceps, acc. to Blakesley with tubular shaft, curved to right, size 100



Blakesley Nasal Forceps, rotatable

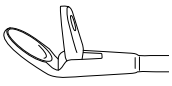


Nasal forceps, acc. to Blakesley
360° rotatable, 45° upturned, 11 cm working length, various jaws sizes (mm)

WT330901 Nasal forceps, acc. to Blakesley, rotatable. 45 curved up, size 3.5 x 110

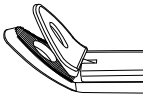
WT330902 Nasal forceps, acc. to Blakesley, rotatable. 45 curved up, size 4.0 x 110

WT330903 Nasal forceps, acc. to Blakesley, rotatable. 45 curved up, size 5.0 x 110

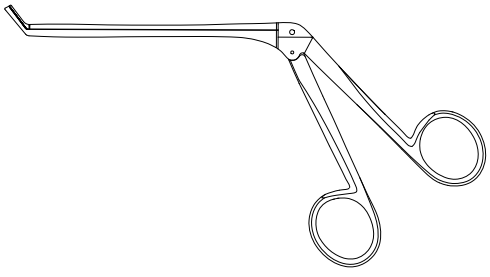


Weil-Blakesley Nasal Forceps

Nasal forceps, acc. to Weil-Blakesley
45° upcurved, 4,8 mm jaws size

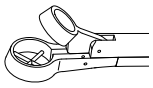


WT230731 Nasal forceps, acc. to Weil-Blakesley, through-cutting, upcurved 45, size 4.8

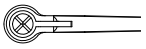


Hartmann Nasal Cutting Forceps

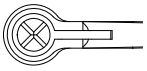
Hartmann nasal cutting forceps,
straight shaft, 11 cm working length, various basket diameters (mm)



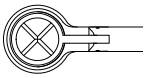
WT329001 Hartmann nasal cutting forceps, with basket, size 5.0 x 110



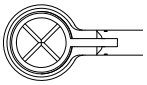
WT329002 Hartmann nasal cutting forceps, with basket, size 8.0 x 110



WT329003 Hartmann nasal cutting forceps, with basket, size 9.0 x 110



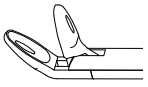
WT329004 Hartmann nasal cutting forceps, with basket, size 10 x 110



Struempel-Voss Nasal Forceps

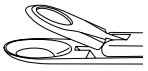
Nasal forceps, acc. to Struempel-Voss
extra delicate, 45° upcurved, 10 cm working length, 2.5 mm jaws size

WT330300 Struempel-Voss nasal forceps, curved up, delicate, size 110

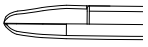


Struempel Forceps

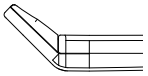
Nasal forceps, acc. to Struempel
oval cup-shaped jaws, 10 cm working length, 2.6 mm width



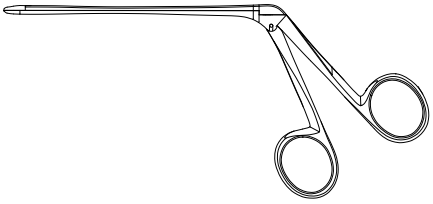
WT341000 Nasal forceps, acc. to Struempel, straight, size 2.6 x 100



WT341045 Nasal forceps, acc. to Struempel, curved up 45, size 2.6 x 100

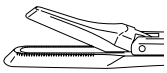


WT341090 Nasal forceps, acc. to Struempel, curved up 90, size 2.6 x 100

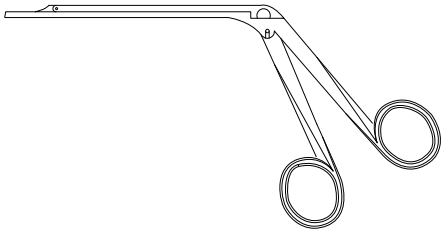


Struycken Nasal Cutting Forceps

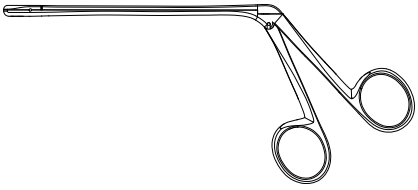
Punch forceps, acc. to Struycken
11 cm working length, cutting width (mm)



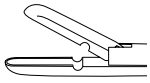
WT327500 Punch forceps, acc. to Struycken, size 1.2 x 110



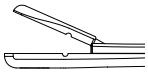
Takahashi Nasal Forceps



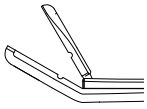
Nasal forceps, acc. to Takahashi
spoon 3 x 10 mm, 5 x 10 mm (large),
various working lengths (mm)



WT327001 Nasal forceps, acc. to Takahashi, small, straight, size 3 x 100



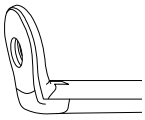
WT327002 Nasal forceps, acc. to Takahashi, curved up, straight, size 3 x 100



WT327003 Nasal forceps, acc. to Takahashi, large, straight, size 115

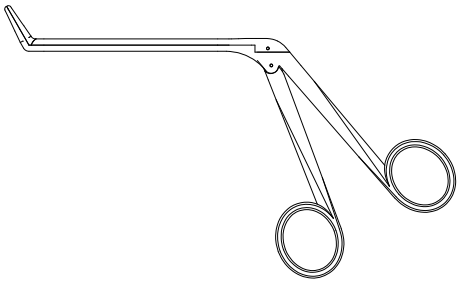
Wigand Polyp Grasping Forceps

Grasping forceps, acc. to Wigand
round shaped, spoon 6 x 14 mm,
11 cm working length, 60° upcurved

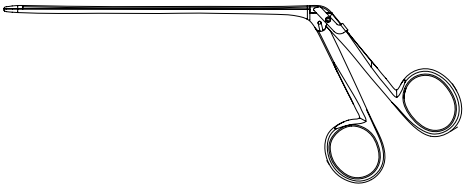


WT330400 Grasping forceps, acc. to Wigand, for polys, round, curved up, size 110

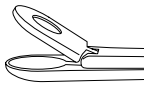


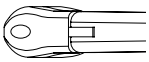


Draf Ethmoid Forceps



Nasal forceps, acc. to Draf
very delicate, 2.4 mm width,
various working lengths (mm), straight



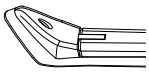


WT338413 Nasal forceps, acc. to Draf, straight, size 2.4 x 130

WT338416 Nasal forceps, acc. to Draf, straight, size 2.4 x 160

WT338419 Nasal forceps, acc. to Draf, straight, size 2.4 x 190

Nasal forceps, acc. to Draf
very delicate, 2.4 mm width,
various working lengths (mm),
60° upcurved

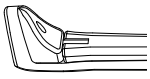


WT338513 Nasal forceps, acc. to Draf, curved up, size 2.4 x 130

WT338516 Nasal forceps, acc. to Draf, curved up, size 2.4 x 160

WT338519 Nasal forceps, acc. to Draf, curved up, size 2.4 x 190

Nasal forceps, acc. to Draf
very delicate, 2.4 mm width,
various working lengths (mm),
90° upcurved



WT338613 Nasal forceps, acc. to Draf, curved up, size 2.4 x 130

WT338616 Nasal forceps, acc. to Draf, curved up, size 2.4 x 160

WT338619 Nasal forceps, acc. to Draf, curved up, size 2.4 x 190

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Sinus Forceps

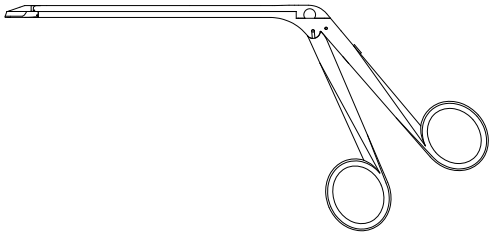
for Microsurgical Operations



- Especially for endonasal endoscopic or microscopic microsurgical operations: Removal of polypoid diseased mucous membranes, membrane remnants, lamellae of bone, septa and nasal polyps
- Special curved and slender instruments with long shafts for easier approach of the ostium and manipulation within the maxillary sinus. Facilitate the surgery of the agger-nasi, the frontal recess and the ostium of the frontal sinus.
- Delicate instruments for exact manipulation at anatomically critical places. Especially suitable for pre- and post-operative day surgery.
- Through-cutting, backbiter and oval cupped jaws models

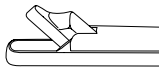
EXPLORENT

Moriyama Forceps

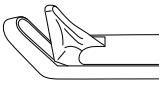


Punch forceps, acc. to Moriyama
through-cutting, delicate,
12,5 cm working length, various cup types
and sizes (mm)

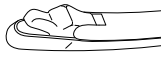
WT326801 Punch forceps, acc. to Moriyama, through cutting, delicate, straight, size 1.5 x 125



WT326802 Punch forceps, acc. to Moriyama, through cutting, delicate, curved up, size 1.5 x 125

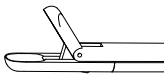


WT326803 Punch forceps, acc. to Moriyama, through cutting, delicate, sheath curved, size 1.5 x 125

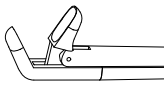


Nasal forceps, acc. to Moriyama
with oval cups,
14 cm working length, various cup types
and sizes (mm)

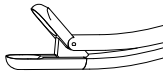
WT326804 Nasal forceps, acc. to Moriyama, with oval cups, straight, size 3.0 x 140



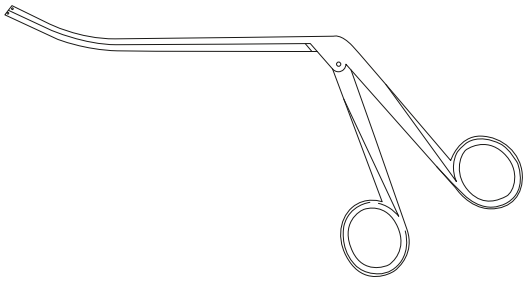
WT326805 Nasal forceps, acc. to Moriyama, with oval cups, curved up, size 3.0 x 140



WT326806 Nasal forceps, acc. to Moriyama, with oval cups, fine, sheath curved up, size 140

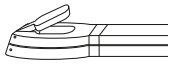


Moriyama Forceps (2)

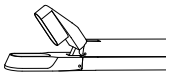


Forceps, acc. to Moriyama
various types, cutting widths (mm)
working lengths (mm)

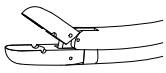
WT326807 Punch forceps, acc. to Moriyama, backward cutting, sheath curved up, size 2.7 x 130



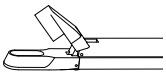
WT326808 Punch forceps, acc. to Moriyama, through cutting, curved up, size 140



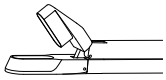
WT326809 Nasal forceps, acc. to Moriyama, with oval cups, curved up, size 140



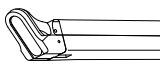
WT326810 Punch forceps, acc. to Moriyama, through cutting, straight, size 105



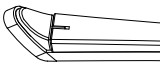
WT326811 Punch forceps, acc. to Moriyama, through cutting, straight, size 3 x 105



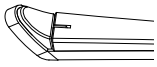
WT326812 Punch forceps, acc. to Moriyama, through cutting, curved up, size 105



WT326813 Punch forceps, acc. to Moriyama, through cutting, curved up, size 2.0 x 100



WT326814 Punch forceps, acc. to Moriyama, through cutting, large, curved up, size 105



WT326815 Punch forceps, acc. to Moriyama, through cutting, straight, size 1.3 x 125

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Through-Cutting Forceps



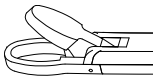
- Sharp, strong curved cutting punches and forceps. Serve to remove or fenestrate bone partitions, excise cysts and polyps.
- Through-cutting models with rigid lower jaw used as a perforator, and mobile upper jaw used as the cutting part.
- Super punch, upper jaw with serrated surface, prevents soft tissue or mucosa from slipping away.
- Through-cutting models, standard type.

EXPLORENT

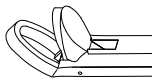
Wigand Through Cutting Forceps

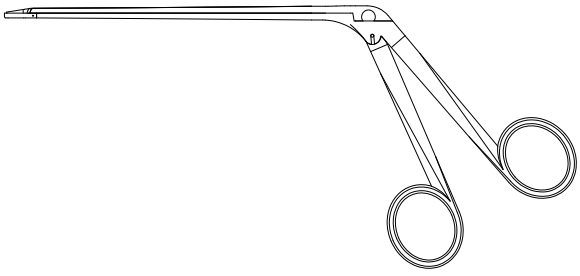
Punch forceps, acc. to Wigand
universal, 14 cm working length,
4.2 mm cutting width

WT334200 Punch forceps,
acc. to Wigand, universal,
straight, size 4.2 x 140

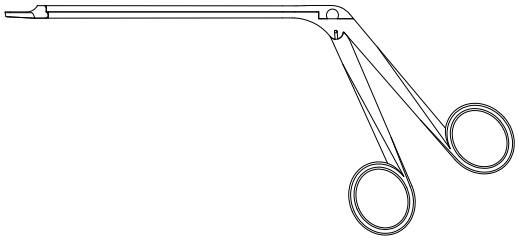


WT334245 Punch forceps,
acc. to Wigand, universal,
curved up 45, size 4.2 x 140



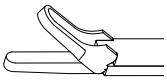


Wigand "You see what you cut" Forceps

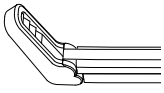


Punch forceps, acc. to Wigand-Herberhold
13 cm working length/ 12.5 cm (WT334445)

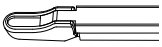
WT334300 Punch forceps,
acc. to Wigand-Herberhold,
forward cutting, straight, size L



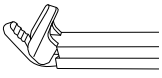
WT334345 Punch forceps,
acc. to Wigand-Herberhold,
forward cutting, curved up, size L



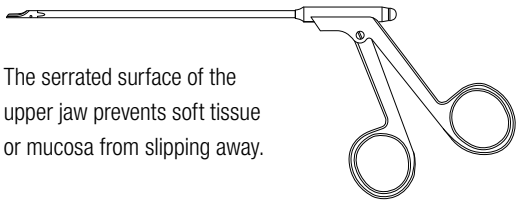
WT334400 Punch forceps,
acc. to Wigand-Herberhold,
forward cutting, straight, size S



WT334445 Punch forceps,
acc. to Wigand-Herberhold,
forward cutting, curved up, size S

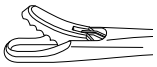


"Super Punch" Forceps

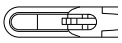


The serrated surface of the
upper jaw prevents soft tissue
or mucosa from slipping away.

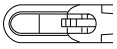
Punch forceps "Super Punch"
through-cutting, serrated upper jaw,
straight, 13 cm working length,
various cutting widths (mm)



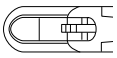
WT336400 Punch forceps "Super Punch", through-cutting,
serrated, straight, size 2.0 x 130



WT336401 Punch forceps "Super Punch", through-cutting,
serrated, straight, size 2.5 x 130



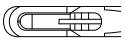
WT336402 Punch forceps "Super Punch", through-cutting,
serrated, straight, size 3.0 x 130



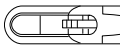
Punch forceps "Super Punch"
through-cutting, serrated upper jaw,
upcurved, 13 cm working length,
various cutting widths (mm)



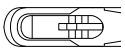
WT336500 Punch forceps "Super Punch", through-cutting,
serrated, curved, size 2.0 x 130



WT336501 Punch forceps "Super Punch", through-cutting,
serrated, curved, size 2.5 x 130



WT336502 Punch forceps "Super Punch", through-cutting,
serrated, curved, size 3.0 x 130

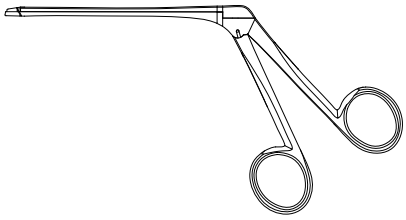


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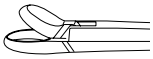
Your Vision, Our Future

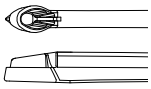
Through-Cutting Forceps (cont.)

Blakesley Through-Cutting Forceps

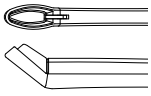


Punch forceps, acc. to Blakesley
straight, working lengths shown in cm and mm (115=11.5 cm, 11=11cm), various cutting widths (mm)





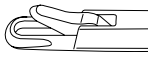
WT335800	Punch forceps, acc. to Blakesley, through-cutting, straight, size 2.0 x 110
WT335801	Punch forceps, acc. to Blakesley, through-cutting, straight, size 2.5 x 100
WT335802	Punch forceps, acc. to Blakesley, through-cutting, straight, size 3 x 11



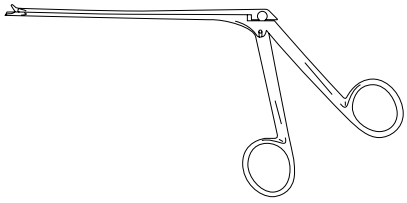
WT335900	Punch forceps, acc. to Blakesley, through-cutting, curved up, size 2 x 11
WT335901	Punch forceps, acc. to Blakesley, through-cutting, curved up 45, size 2.5 x 115
WT335902	Punch forceps, acc. to Blakesley, through-cutting, curved up, size 3 x 11

Draf Punch Forceps

Punch forceps, acc. to Draf
through-cutting, very delicate, oval jaws, 3 mm x 1 mm, 14 cm working length

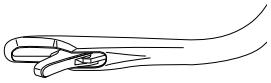


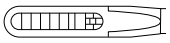
WT338901	Punch forceps, acc. to Draf, through-cutting, straight, size 1.0 x 140



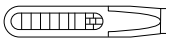
Punch Forceps

Punch forceps
through-cutting, oval, shaft 70° upcurved, 13 cm working length, cutting width 2 x 6 mm

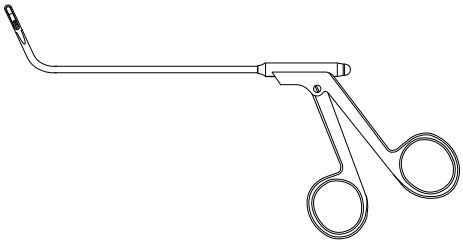




WT336601	Punch forceps, through-cutting, curved up, cutting to the left, size 130

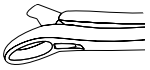


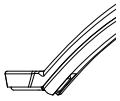
WT336602	Punch forceps, through-cutting, curved up, cutting to the right, size 130



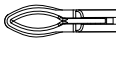
Yoon Forceps

Nasal forceps, acc. to Yoon
through-cutting, horizontal opening, cutting width 2.5 x 5 mm, oval, 13.5 cm working length

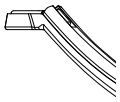


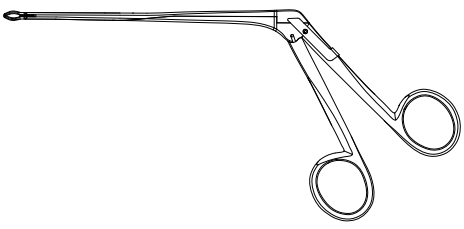


WT336611	Nasal forceps, acc. to Yoon through-cutting, curved to left, size 2.5 x 135

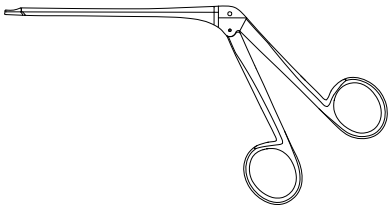


WT336612	Nasal forceps, acc. to Yoon through-cutting, curved to right, size 2.5 x 135

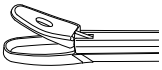




Weil-Blakesley Through-Cutting Forceps

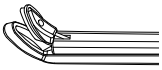


Nasal forceps, acc. to Weil-Blakesley
straight, 11 cm working length



WT336726	Nasal forceps, acc. to Weil-Blakesley, through-cutting, straight, S, size 110
WT336728	Nasal forceps, acc. to Weil-Blakesley, through-cutting, straight, M, size 110
WT336730	Nasal forceps, acc. to Weil-Blakesley, through-cutting, straight, L, size 110

Nasal forceps, acc. to Weil-Blakesley
45° curved, 11 cm working length



WT336727	Nasal forceps, acc. to Weil-Blakesley, through-cutting, 45 curved, S, size 110
WT336729	Nasal forceps, acc. to Weil-Blakesley, through-cutting, 45 curved, M, size 110
WT336731	Nasal forceps, acc. to Weil-Blakesley, through-cutting, 45 curved, L, size 110

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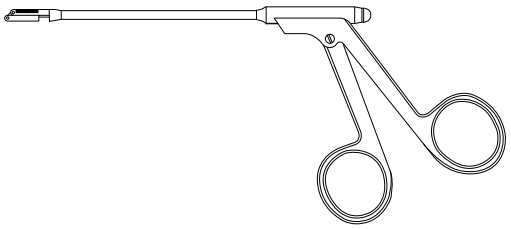
Antrum Punches



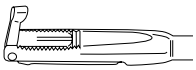
- Sidebiting models and backbiters
- 360° rotatable backbiters, micro backbiter
- Backbiters with integrated suction channel

EXPLORENT

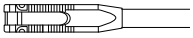
Antrum Backbiters (1)



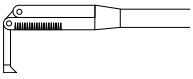
Punch forceps
adult size: 2.5 mm cutting width,
10 cm working length



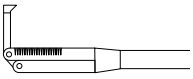
WT335000 Punch forceps, backward upcutting, size 2.5 x 100



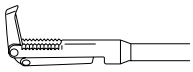
WT335001 Punch forceps, backward cutting, to the left, size 2.5 x 100



WT335002 Punch forceps, backward cutting, to the right, size 2.5 x 100



Punch forceps
pediatric size: 1.5 mm cutting width,
10 cm working length



WT335020 Punch forceps, backward upcutting, size 1.5 x 100



WT335021 Punch forceps, backward cutting, to the left, size 1.5 x 100

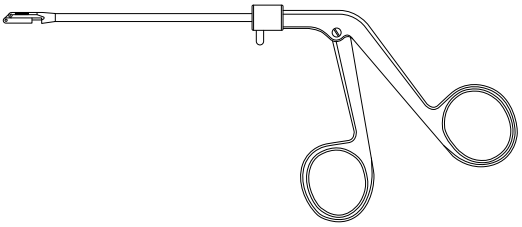


WT335022 Punch forceps, backward cutting, to the right, size 1.5 x 100

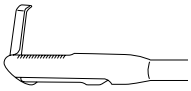


Rotating Backbiters

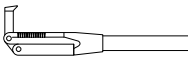
The rotating system allows backward cutting to the left, the right and upwards.



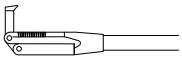
Punch forceps
finger post facilitates 360° rotation,
10 cm working length,
various cutting widths (mm)



WT335015 Punch forceps, rotatable, backward cutting, curved up, size 1.5 x 100



WT335013 Punch forceps, rotatable, backward cutting, curved up, size 2.0 x 100

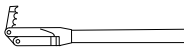


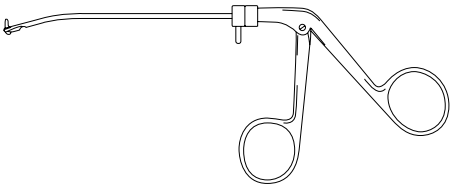
WT335025 Punch forceps, rotatable, backward cutting, curved up, size 2.5 x 100

Punch forceps
finger post facilitates 360° rotation,
shaft curved down,
10 cm working length, 2 mm cutting width



WT335050 Punch forceps, rotatable, backward cutting, size 2.0 x 100





Antrum Punches
(cont.)

Pediatric Antrum Suction Backbiters

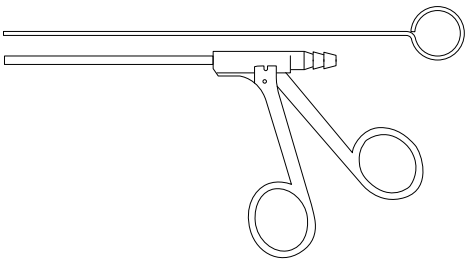


Suction punch forceps
with integrated suction channel,
2 mm cutting width,
10 cm working length, 4 mm shaft diameter

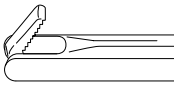
WT334900 Suction punch forceps, backward cutting, straight, size 4.0 x 100

WT334904 Suction punch forceps, backward cutting, upcurved, size 4.0 x 100





Antrum Suction Backbiters for Adults



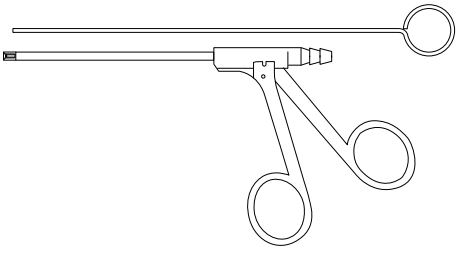
Suction punch forceps
with integrated suction channel,
2.5 mm cutting width,
10 cm working length, 5 mm shaft diameter

WT335100 Suction punch forceps, backward cutting, straight, size 5.0 x 100

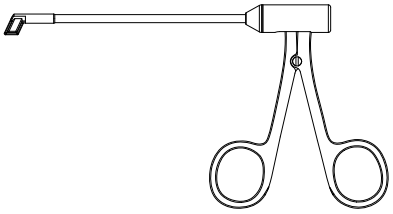


WT335104 Suction punch forceps, backward cutting, curved up, size 5.0 x 100



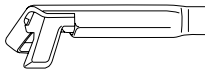


Sidebiting Antrum Punch

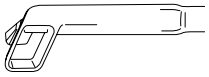


Punch forceps
through-cutting,
13 cm working length, 3 mm cutting width

WT334801 Punch forceps, sideward cutting, downward left, size 3.0 x 130



WT334802 Punch forceps, sideward cutting, downward right, size 3.0 x 130



Punch forceps, acc. to Schwager
(not shown)

WT334803 Punch forceps, acc. to Schwager, curved left
WT334804 Punch forceps, acc. to Schwager, curved right

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Nasal Scissors



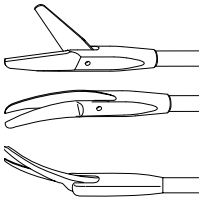
- Nasal scissors, concha and ethmoid scissors, sliding shaft and tubing shaft models
- Serrated blade models
- Smooth and very delicate models

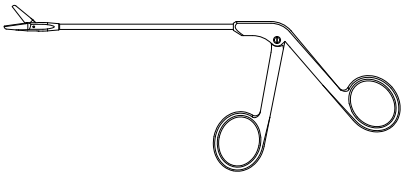
EXPLORENT

Nasal Scissors

Nasal scissors
serrated blades,13 cm working length, various types

WT326200 Nasal scissors, serrated, straight, size 130
WT326201 Nasal scissors, serrated, curved to left, size 130
WT326202 Nasal scissors, serrated, curved to right, size 130



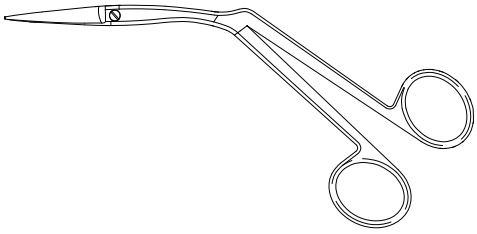


Heymann Nasal Scissors

Nasal scissors, acc. to Heymann
standard model, various working lengths (mm)

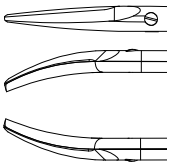
WT326000 Nasal scissors, acc. to Heymann, standard, size 95
WT326100 Nasal scissors, acc. to Heymann, standard, size 90
WT326011 Nasal scissors, acc. to Heymann, standard, size 110

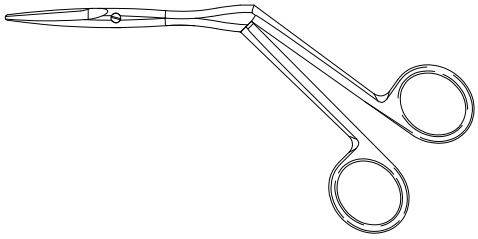




Nasal scissors, acc. to Heymann
smooth blades, 9 cm working length

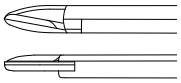
WT326009 Nasal scissors, acc. to Heymann, size 90
WT326101 Nasal scissors, acc. to Heymann, curved to left, size 90
WT326102 Nasal scissors, acc. to Heymann, curved to right, size 90



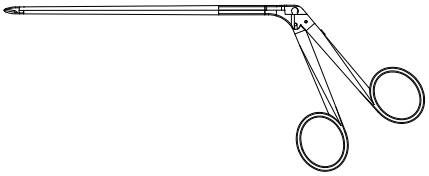


Draf Ethmoid Scissors

Ethmoid scissors, acc. to Draf
very delicate, 5.8 mm blade length, various shaft lengths (mm)



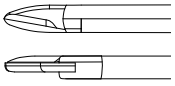
WT338713 Ethmoid scissors, acc. to Draf, straight, size 130
WT338716 Ethmoid scissors, acc. to Draf, straight, size 160
WT338719 Ethmoid scissors, acc. to Draf, straight, size 190

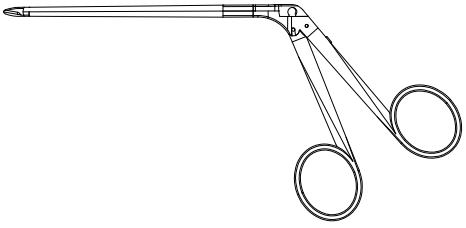


Belucci Scissors

Nasal scissors, acc. to Belucci
straight, 7.7 mm jaws length, 10 cm shaft length

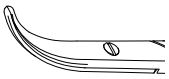
WT342000 Nasal scissors, acc. to Belucci, straight, size 100



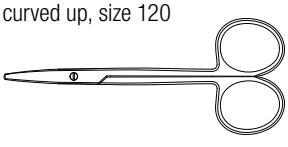


Fomon Scissors

Nasal scissors, acc. to Fomon
12 cm working length



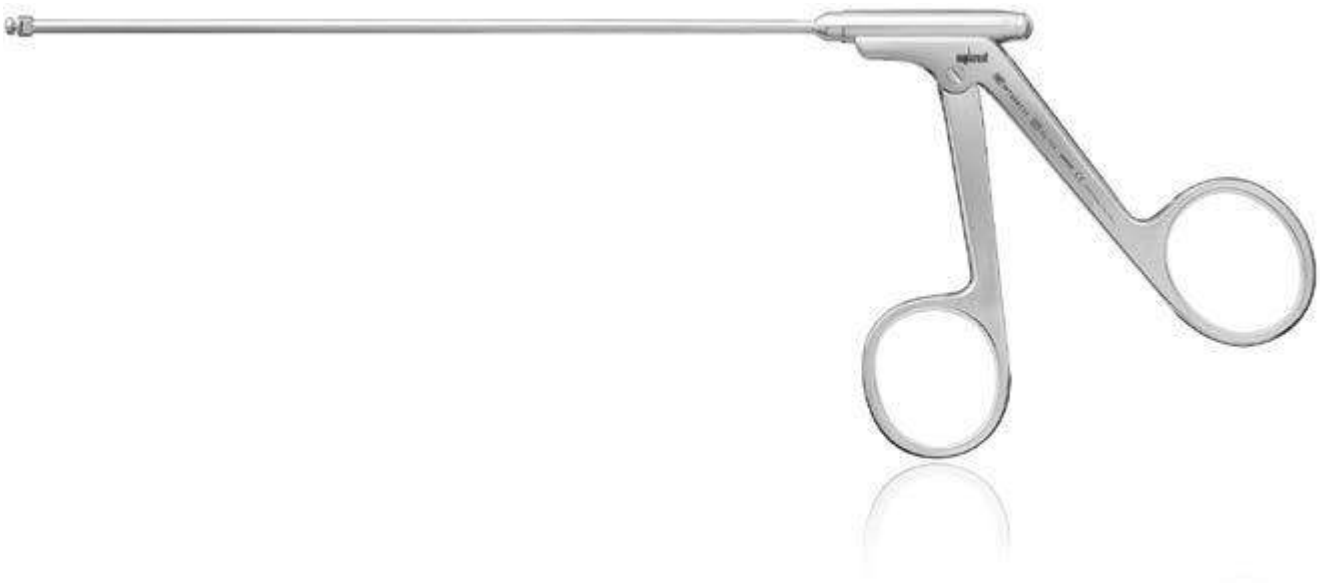
WT438912 Nasal scissors, acc. to Fomon, curved up, size 120



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Circular Cutting Punches

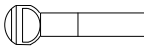


- For enlargement of openings in the sphenoid frontal wall
- Can be used to cut out pieces of the nasal concha, thin bone segments, bony ethmoid septa
- Useful for treatment of choanal atresia
- Full circle of 360° cutting without rotating the instrument; models with integrated suction channel
- By punching exclusively in the sagittal axis, there is a reduced risk of traumatizing the cranium, the carotis and the optic nerve osseous canal
- The rigid inside cutting jaws prevent the removal of tissue or mucosa while cutting

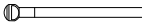
EXPLORENT

Circular Cutting Punches

Punch forceps, circular cutting
cutting in a full circle of 360°,
straight/ 65° upturned,
16 cm working length, various diameters (mm)

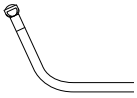


WT334735 Punch forceps, circular cutting, straight, size 3.5 x 160

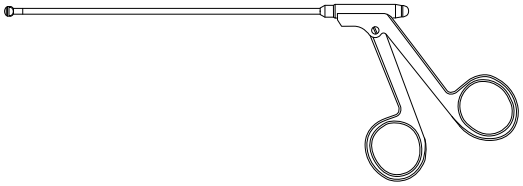


WT334745 Punch forceps, circular cutting, straight, size 4.5 x 160

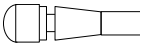
WT334765 Punch forceps, circular cutting, curved up, size 3.5 x 160



WT334775 Punch forceps, circular cutting, curved up, size 4.5 x 160



Punch forceps, circular cutting
cutting in a full circle of 360°,
18 cm working length, various diameters (mm)



WT334935 Punch forceps, circular cutting, straight, size 3.5 x 180

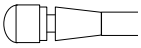


WT334945 Punch forceps, circular cutting, straight, size 4.5 x 180



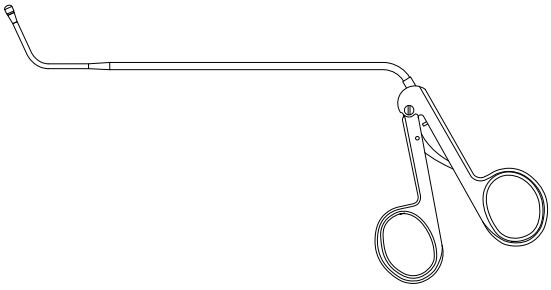
Circular Cutting Punches (cont.)

Punch forceps, circular cutting
cutting in a full circle of 360°,
65° upturned, 17 cm working length, various diameters (mm)



WT334965 Punch forceps, circular cutting, curved up, size 3.5 x 170

WT334975 Punch forceps, circular cutting curved up, size 4.5 x 170

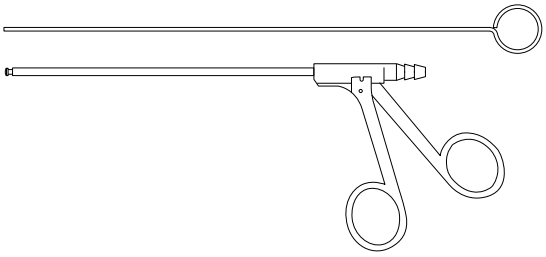


Suction Punch

Suction punch forceps
integrated suction channel,
allows cutting in a full circle of 360° with simultaneous suction, 3.5 mm diameter,
16 cm working length



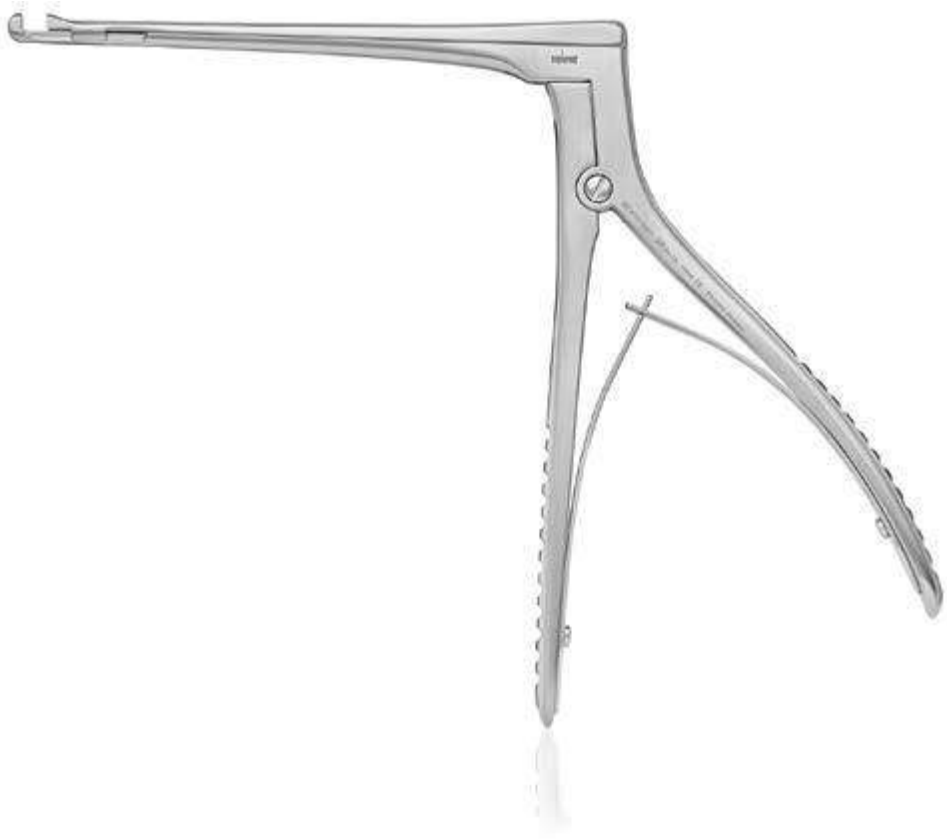
WT334835 Suction punch forceps, circular cutting, straight, size 3.5 x 160



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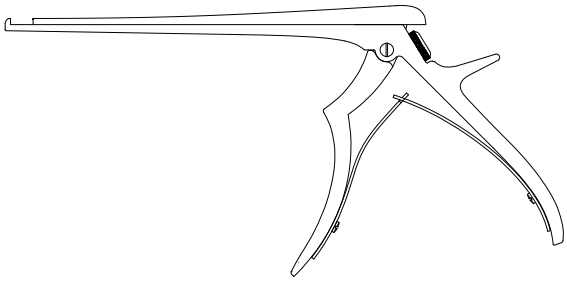
Sinus Punches



- Through-cutting models, backward cutting models with deposit to pick up and collect bone material
- 360° rotatable models, detachable models
- Up- and downbiting models
- Upturned models for frontal sinus

EXPLORENT

Detachable Kerrison Sphenoid Punches



Punch forceps, acc. to Kerrison
detachable for reprocessing,
cutting up 90° or down 90°,
18 cm working length,
various cutting widths (mm)



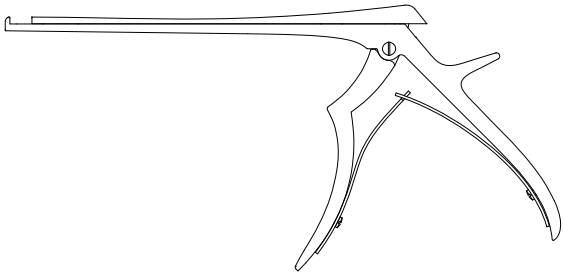
WT512901 Punch forceps, acc. to Kerrison, 90 cutting upward, detachable, size 1.0 x 180
WT512902 Punch forceps, acc. to Kerrison, 90 cutting upward, detachable, size 2.0 x 180
WT512903 Punch forceps, acc. to Kerrison, 90 cutting upward, detachable, size 3.0 x 180
WT512904 Punch forceps, acc. to Kerrison, 90 cutting upward, detachable, size 4.0 x 180
WT512911 Punch forceps, acc. to Kerrison, 90 cutting downward, detachable, size 1.0 x 180
WT512912 Punch forceps, acc. to Kerrison, 90 cutting downward, detachable, size 2.0 x 180
WT512913 Punch forceps, acc. to Kerrison, 90 cutting downward, detachable, size 3.0 x 180
WT512914 Punch forceps, acc. to Kerrison, 90 cutting downward, detachable, size 4.0 x 180

Punch forceps, acc. to Kerrison
detachable for reprocessing,
cutting up 40°,
18 cm working length,
various cutting widths (mm)

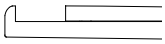


WT512921 Punch forceps, acc. to Kerrison, 40 cutting upward, detachable, size 1.0 x 180
WT512922 Punch forceps, acc. to Kerrison 40 cutting upward, detachable, size 2.0 x 180
WT512923 Punch forceps, acc. to Kerrison 40 cutting upward, detachable, size 3.0 x 180
WT512924 Punch forceps, acc. to Kerrison, 40 cutting upward, detachable, size 4.0 x 180
WT512925 Punch forceps, acc. to Kerrison, 40 cutting upward, detachable, size 5.0 x 180
WT512926 Punch forceps, acc. to Kerrison, 40 cutting upward, detachable, size 6.0 x 180

Kerrison Sphenoid Punches

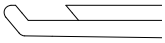


Punch forceps, acc. to Kerrison
cutting up 90° or down 90°,
18 cm working length,
various cutting widths (mm)



WT513201 Punch forceps, acc. to Kerrison, 90 cutting upward, size 1.0 x 180
WT513202 Punch forceps, acc. to Kerrison, 90 cutting upward, size 2.0 x 180
WT513203 Punch forceps, acc. to Kerrison, 90 cutting upward, size 3.0 x 180
WT513302 Punch forceps, acc. to Kerrison, 90 cutting downward, size 2.0 x 180
WT513303 Punch forceps, acc. to Kerrison, 90 cutting downward, size 3.0 x 180

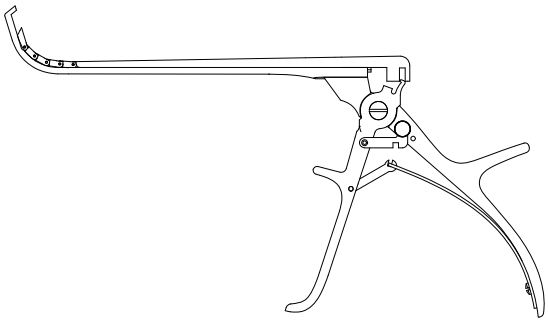
Punch forceps, acc. to Kerrison
cutting up 40°,
18 cm working length,
2.0 mm cutting width



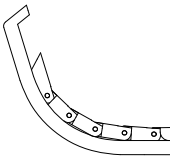
WT513402 Punch forceps, acc. to Kerrison, 40 cutting upward, size 2.0 x 180

Sinus Punches
(cont.)

Frontal Sinus Punch



Punch forceps
shaft 70° upturned,
2.0 or 3.5 mm jaws size,
18 or 17.5 cm working length

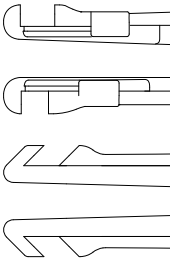


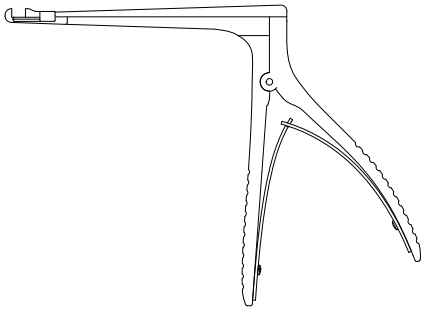
WT512602	Punch forceps, curved up, size 2.0 x 180
WT512603	Punch forceps, curved up 70, size 3.5 x 175

Hajek Sphenoid Punches

Punch forceps, acc. to Hajek
4 mm width,
various working lengths (mm), various types

WT512001	Punch forceps, acc. to Hajek, cutting upward 90, size 4.0 x 120
WT512002	Punch forceps, acc. to Hajek, cutting upward 90, size 4.0 x 140
WT512201	Punch forceps, acc. to Hajek, upcutting backward 90, size 4.0 x 140
WT512202	Punch forceps, acc. to Hajek, downcutting backward 90, size 4.0 x 140

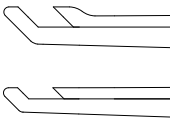


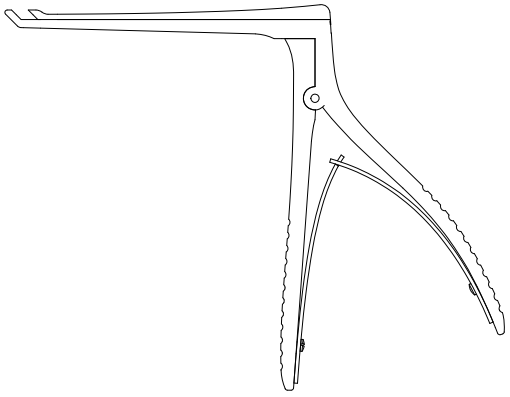


Hajek-Kofler Sphenoid Punches

Punch forceps, acc. to Hajek-Kofler
forward cutting, up 45°,
14 cm working length, various cutting widths (mm)

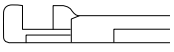
WT512301	Punch forceps, acc. to Hajek-Kofler, upcutting forward, size 4.0 x 140
WT512302	Punch forceps, acc. to Hajek-Kofler, upcutting forward, size 2.0 x 140

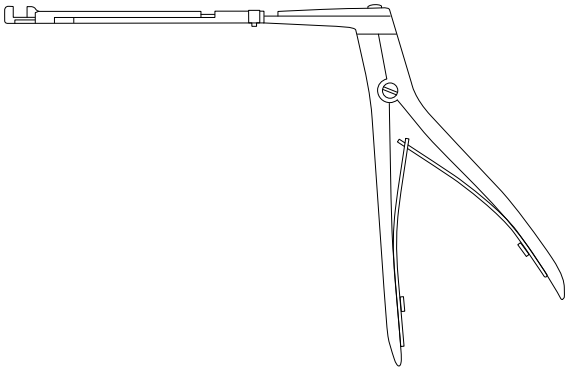




Punch forceps, acc. to Hajek-Kofler
slender, 360° rotatable,
15.5 cm working length

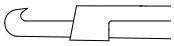
WT513000	Punch forceps, acc. to Hajek-Kofler, rotatable, size 155





Sphenoid Punches

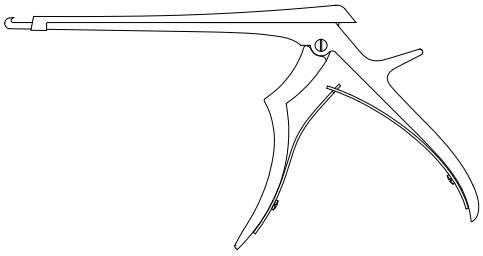
- With deposit to pick up and collect bone material.
- Enables to work continuously.



Punch forceps
with guide wire, through-cutting,
15 cm working length, various cutting widths (mm)

WT512402 Punch forceps, through-cutting,
upward 90, size 2.0 x 150

WT512403 Punch forceps, through-cutting,
size 3.0 x 150



WT512410 Guide wire, for punch forceps

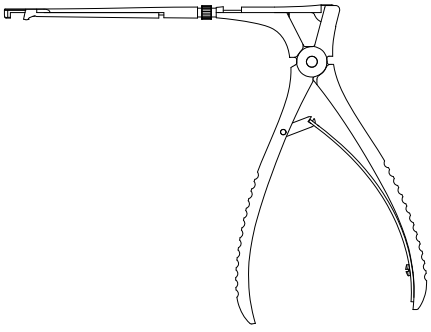


McKenty Sphenoid Punches



Punch forceps, acc. to McKenty
through-cutting, slender,
rotatable 360°, 2 mm cutting width,
14.5 cm working length

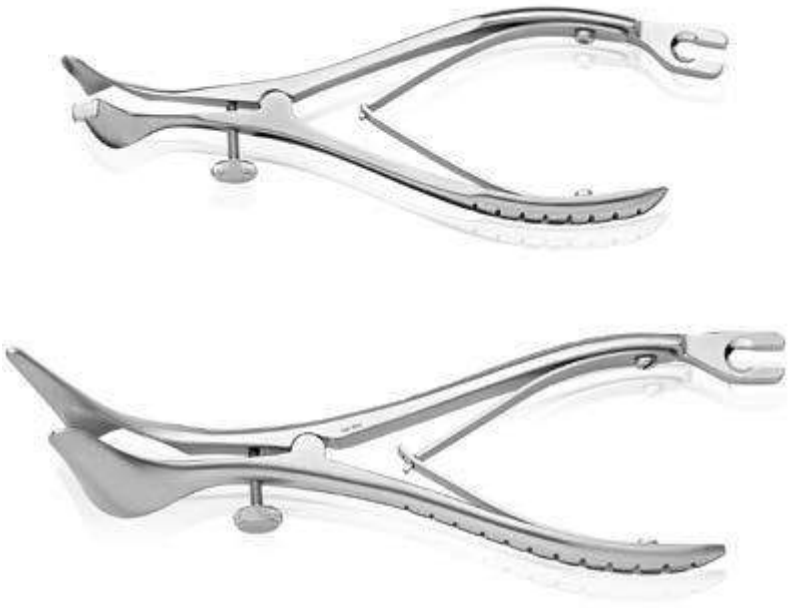
WT513100 Punch forceps, acc. to McKenty, rotatable,
through-cutting, size 2.0 x 14.5



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Nasal and Sinus Specula



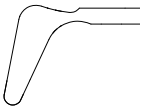
EXPLORENT

- Models with shortened, serrated blade and set-screw
- Models for adults and children

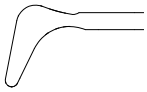
Hartmann Nasal Specula

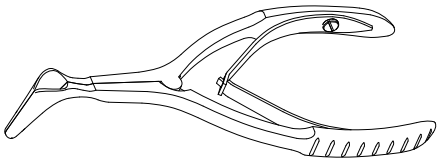
Nasal Speculum, acc. to Hartmann
13.5 cm total lenght for adults,
13.0 cm total lengths for children,
various diameters (mm)

WT143001 Nasal Speculum,
acc. to Hartmann,
for adults, size 33.5 x 135



WT143002 Nasal Speculum,
acc. to Hartmann,
for children, size 27 x 130

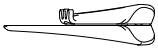




Killian-Struycken Nasal Specula

Nasal speculum, acc. to Killian-Struycken
adaption to articulated arm 218800,
serrated, shortened blade, with set screw,
15 cm total length, various blade sizes (mm)

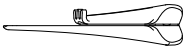
WT497601 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
left blade, size 55, 150



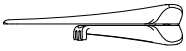
WT497602 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
right blade, size 55, 150



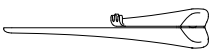
WT497603 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
left blade, size 65, 150



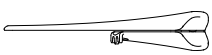
WT497604 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
right blade, size 65, 150

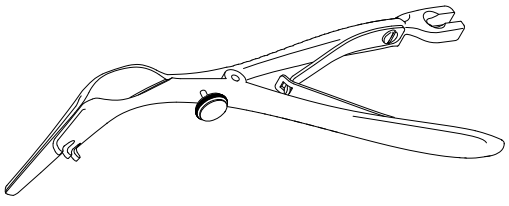


WT497605 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
left blade, size 75, 150



WT497606 Nasal speculum, acc. to Killian-Struycken,
for articulated arm,
right blade, size 75, 150



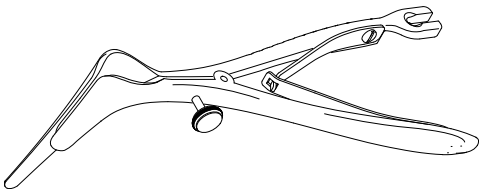


Sinus Specula

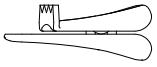
Nasal speculum
adaption to articulated arm 218800,
blades without teeth, with set screw,
15 cm total length, various blade sizes (mm)



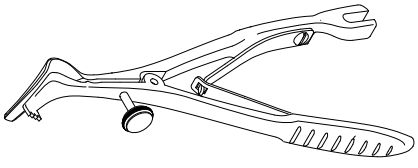
WT497801 Nasal speculum, for articulated arm,
without teeth, left blade, size 55, 35 x 150
WT497802 Nasal speculum, for articulated arm,
without teeth, right blade, size 55, 35 x 150
WT497803 Nasal speculum, for articulated arm,
without teeth, left blade, size 75, 35 x 150
WT497804 Nasal speculum, for articulated arm,
without teeth, right blade, size 75, 35 x 150
WT497805 Nasal speculum, for articulated arm,
without teeth, left blade, size 75, 52 x 150
WT497806 Nasal speculum, for articulated arm,
without teeth, right blade, size 75, 52 x 150



Nasal speculum “Würzburg”
adaption to articulated arm 218800,
serrated, shortened blade,
13 cm total length, various blade sizes (mm)



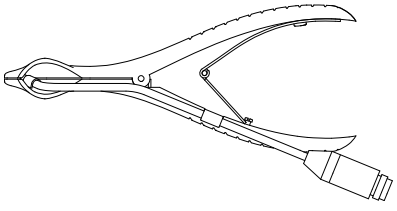
WT498001 Nasal speculum “Würzburg”,
for articulated arm, left blade, size 25, 18 x 130
WT498002 Nasal speculum “Würzburg”,
for articulated arm, right blade, size 25, 18 x 130



Nasal speculum, with light carrier
13,5 cm total length, various blade sizes (mm)



WT497740 Nasal speculum, with light carrier, size 40 x 135
WT497755 Nasal speculum, with light carrier, size 55 x 135
WT497775 Nasal speculum, with light carrier, size 75 x 135
WT497790 Nasal speculum, with light carrier, size 90 x 135



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Flexible Tension Arm System



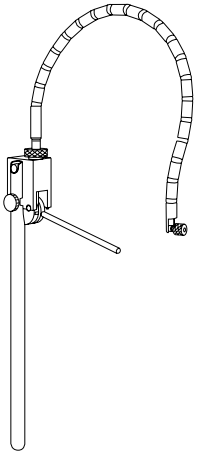
- Complete with holding rod for attachment to operating table
- Optional clamp and adapter

EXPLORENT

Flexible Tension Arm

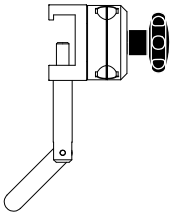
Articulated arm
complete with holding rod
for attachment to operating table

WT218800 Articulated arm, flexible, with holding rod



Clamp socket
attachable to operating table

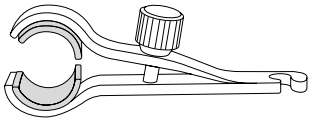
WT218801 Clamp socket, for articulated arm WT218800



Instruments for Flexible Tension Arm

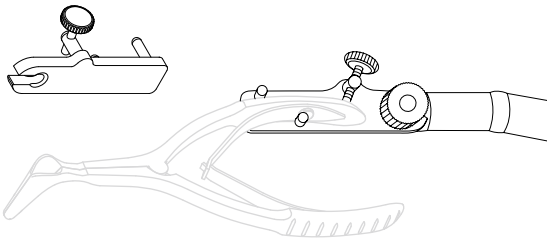
Adapter
for attachement to sinuscope

WT218803 Adapter, endoscope to articulated arm WT218800, size 80

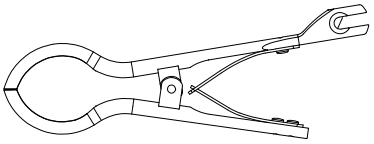


Adapter
for articulated arm WT218800,
for Cottle nasal specula with set screw

WT218804 Adapter, nasal speculum to articulated arm WT218800



WT218802 Adapter, ear speculum to articulated arm WT218800, size 120




RICHARDS
RICHARDS
RICHARDS
RICHARDS

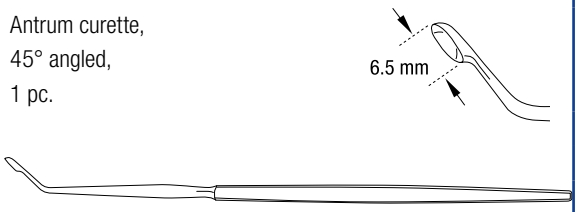
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Curette, Elevator, Knives, Suction

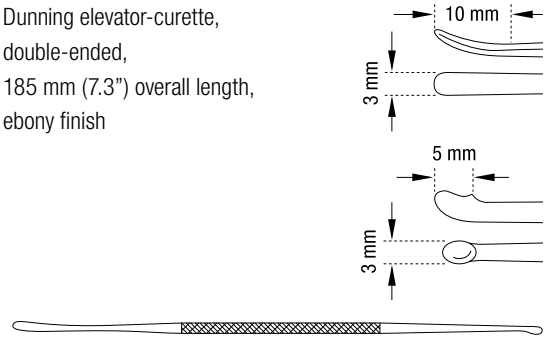
Curette

70230757 Antrum curette,
45° angled,
1 pc.



Elevator

270202 Dunning elevator-curette,
double-ended,
185 mm (7.3") overall length,
ebony finish

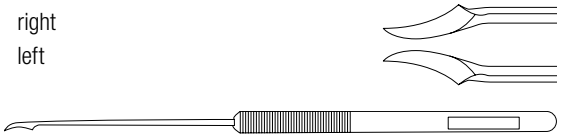


Needle

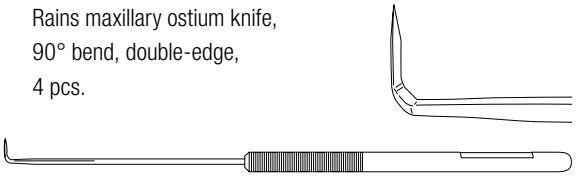
230666 Septal needle (not shown),
with Luer-lock

Reusable Knives

Synechia knife,
curved blade, sharp,
4 pcs.,
70130978 right
70130979 left

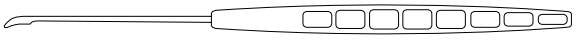


70130981 Rains maxillary ostium knife,
90° bend, double-edge,
4 pcs.



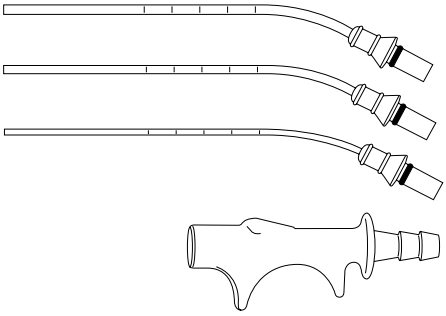
Single Use Knife

130801 Sickle knife,
for sinus endoscopy,
stainless steel,
sterile, single use,
6 pcs.



Fergusson Frazier Suction Kit

130804 Fergusson Frazier suction kit,
sterile, single use,
6 units



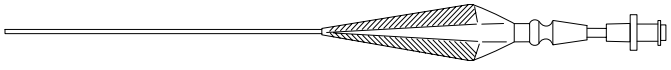
Each unit includes:
6 Fr. (2 mm) suction tube,
9 Fr. (2.8 mm) suction tube,
11 Fr. (3.6 mm) suction tube,
handle with bypass

Post-Op Suction Tube

Suction tube (not shown),
14 gauge,
green finish,
4 pcs.,
70130987 curved left
70130995 frontal

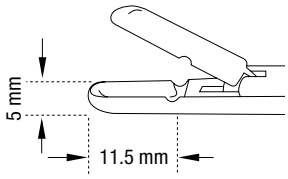
Rains Malleable Irrigation

70131011 Irrigation tube,
stainless steel,
387 mm (15.2") overall length,
sterile, single use,
6 pcs.

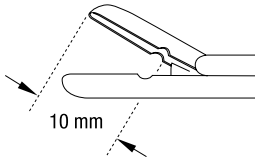


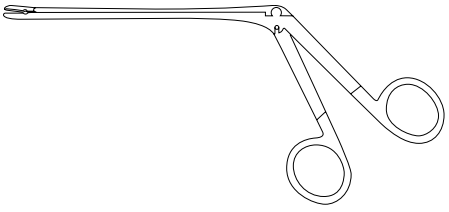
Takahashi Forceps

230676 Takahashi forceps,
100 mm shaft length,
straight, large



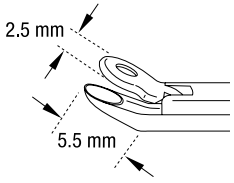
270155 Takahashi nasal forceps,
straight, cupped,
2.5 mm jaws width,
120 mm (4.7") shaft length,
ebony finish

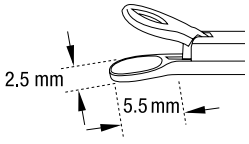




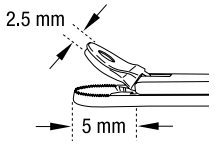
Weil Blakesley Forceps

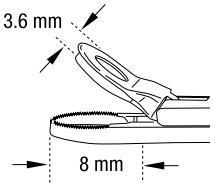
Weil Blakesly forceps,
2.5 mm jaws width,
230732 curved right 30°
230733 curved left 30°

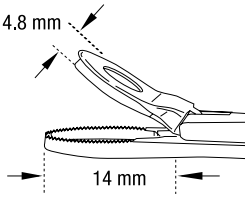




Forceps,
through-cutting,
straight,
105 mm (4.1") shaft length,
230726 2.5 mm jaws width, pediatric
230728 3.6 mm jaws width
230730 4.8 mm jaws width







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Pharynx, Larynx

FK-WO TORS Laryngo-Pharyngoscope Retractor 341

Chest Supports, Suspension Apparatus 349

Mouth Gags and Tongue Depressors 351

Mouth Gags 357

Nasopharyngeal Forceps 359

Biopsy Forceps 361

Adenoid Forceps 363

Adenoid Curettes 365

Adenotomes 369

Retractors 371

Epipharynx Instrument Set 373

Tongue Depressors 377

Scalpels and Knives for Tonsillectomy 379

Tonsil Dissection 381

Tonsil Forceps 383

Scissors 387

Tonsil Snares 389

Salivary Duct Instruments 391

Lacrimal Duct Instruments Basic Set 393

Laryngeal Mirrors 397

Laryngeal Forceps, Tracheal Dilators 399

Manufacturer (FK-WO TORS) (page 343-348)
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

Manufacturer (EXPLORENT) (page 349-400)
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

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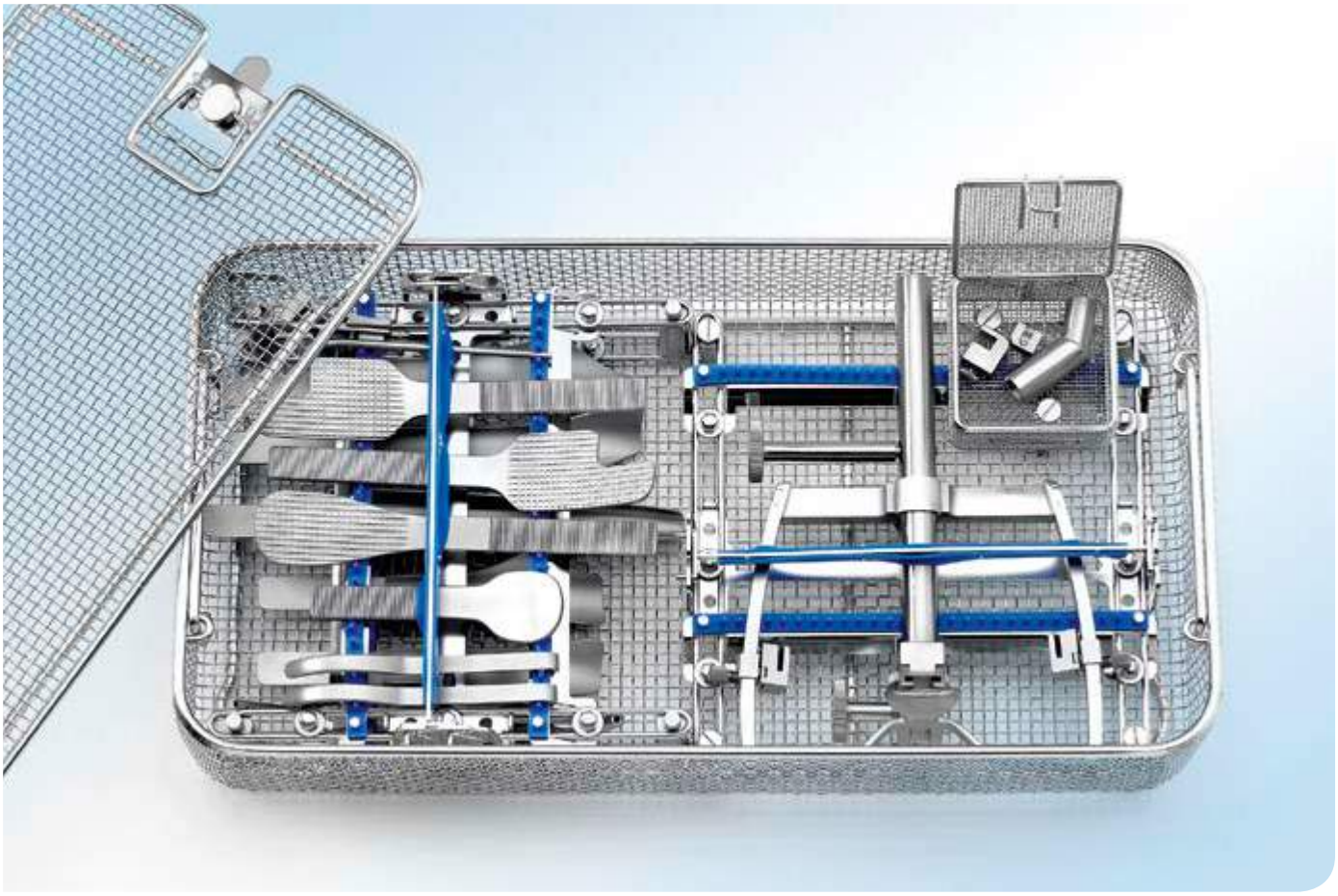
FK-WO TORS

Laryngo-Pharyngoscope Retractor



Design

- Non-tubular design
- Frame construction with wide aperture
- Large variety of blades
- Adjustable angles of the blades moving upwards and downwards
- Attachment of assisting tools
- Connection for flexible tension arm



Exposure of operating fields for applications

- Transoral robotic surgery (TORS):
  Oropharynx, larynx and hypopharynx, oral cavity, base of tongue, supraglottic larynx and piriform sinuses
- Laser surgery: Oropharynx, hypopharynx, larynx
- Micro-laryngeal surgery: Oropharynx, hypopharynx, larynx, upper esophagus, Zenker diverticulum

FK-WO TORS

Laryngo-Pharyngoscope Retractor (cont.)

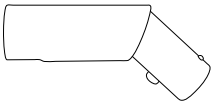
FK-WO TORS Set

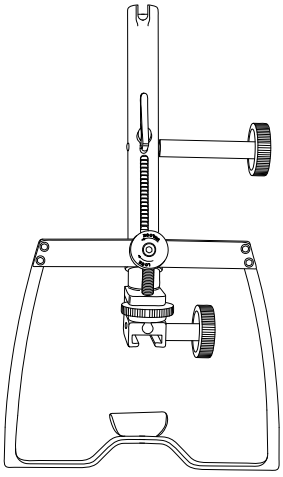
WT645000 Laryngo-pharyngoscope “FK-WO TORS”, set, with instrument basket

Delivery includes:
basic frame WT645001, adapters WT640003/-21, WT645010, TORS blades WT645030/-31/-32/-33, tongue blades WT645013/-16/-17, laryngeal blade WT645019, mandible blade WT645020, light clip WT645006, cheek retractor WT645011, suction tube WT645025, container WT806450

FK-WO TORS Set Components (1)

WT645001 Laryngo pharyngoscope “FK-WO TORS”, basic frame, with adapter for chest support

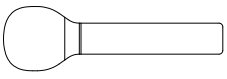




WT645019 Retractor blade, “FK-WO TORS”, for larynx retraction, concave, curved, 17 cm



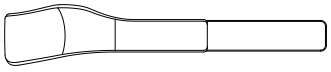
WT645020 Retractor blade, “FK-WO TORS”, for mandible retraction



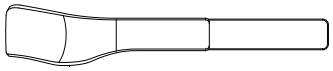
FK-WO TORS Set Components (2)

TORS blade
acc. to Weinstein-O’Malley

WT645030 TORS blade “FK-WO TORS”, acc. to Weinstein-O’Malley, S, left



WT645031 TORS blade “FK-WO TORS”, acc. to Weinstein-O’Malley, S, right



WT645032 TORS blade “FK-WO TORS”, acc. to Weinstein-O’Malley, L, left

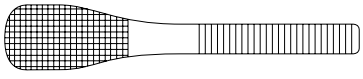


WT645033 TORS blade “FK-WO TORS”, acc. to Weinstein-O’Malley, L, right

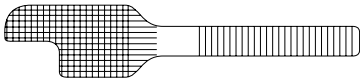


Tongue blade

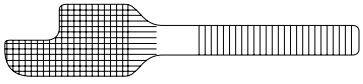
WT645013 Retractor blade, “FK-WO TORS”, for tongue retraction, curved



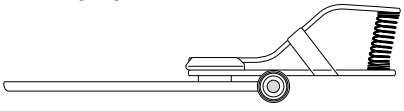
WT645016 Retractor blade, “FK-WO TORS”, for tongue retraction, curved, cut-out right



WT645017 Retractor blade, “FK-WO TORS”, for tongue retraction, curved, cut-out left



WT645006 Light clip “FK-WO TORS”, lateral light-guide connector

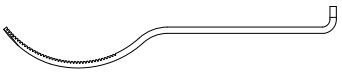


FK-WO TORS Set Components (3)

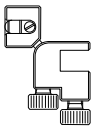
WT645010 Adapter, for retractor blade
for cheek retraction,
2 pcs.



WT645011 Retractor blade
"FK-WO Tors",
for cheek retraction, curved, 2 pcs.



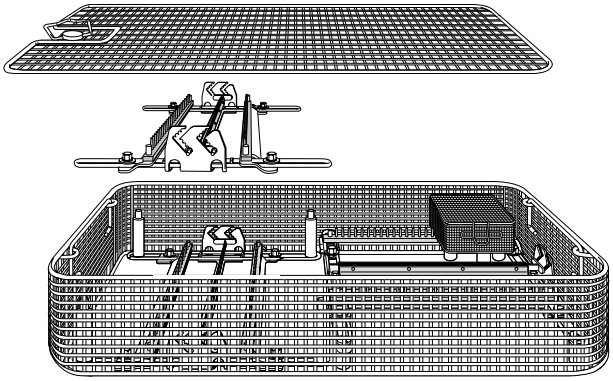
WT640021 Adapter, 4 mm instrument
to FK-WO TORS



WT645025 Suction tube
"FK-WO TORS",
4 mm, angled



WT806450 Instrument basket, 480 x 450 x 100 mm,
with lid, for FK-WO TORS

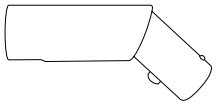


Accessories

WT645050 Retractor blade "FK-WO TORS",
for diverticuloscopy, 22 cm



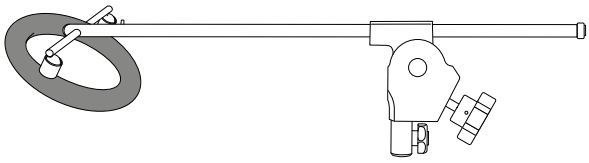
WT640003 Spare adapter, FK-WO TORS to
chest support



Chest Supports

Laryngoscope holder and chest support
with rod for adults, with rod fixation screw,
for use with the laryngoscopes, 34 cm rod length,
9.5 cm diameter of ring

WT630400 Chest support, 340 mm support rod,
95 mm ring



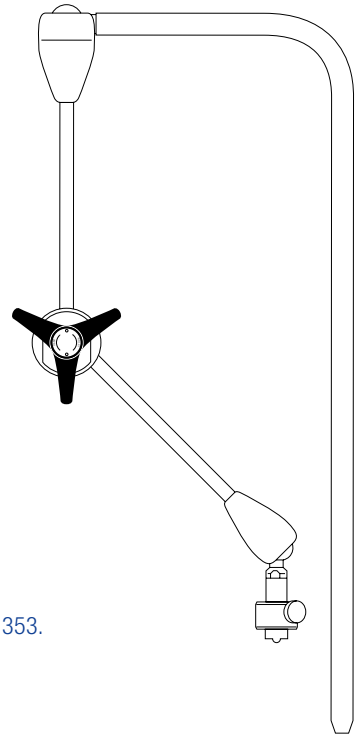
WT630500 Support rod, 240 mm, 95 mm ring

- for children



Flexible Tension Arm System

WT218700 Articulated arm, L shaped stand,
470 x 170 mm

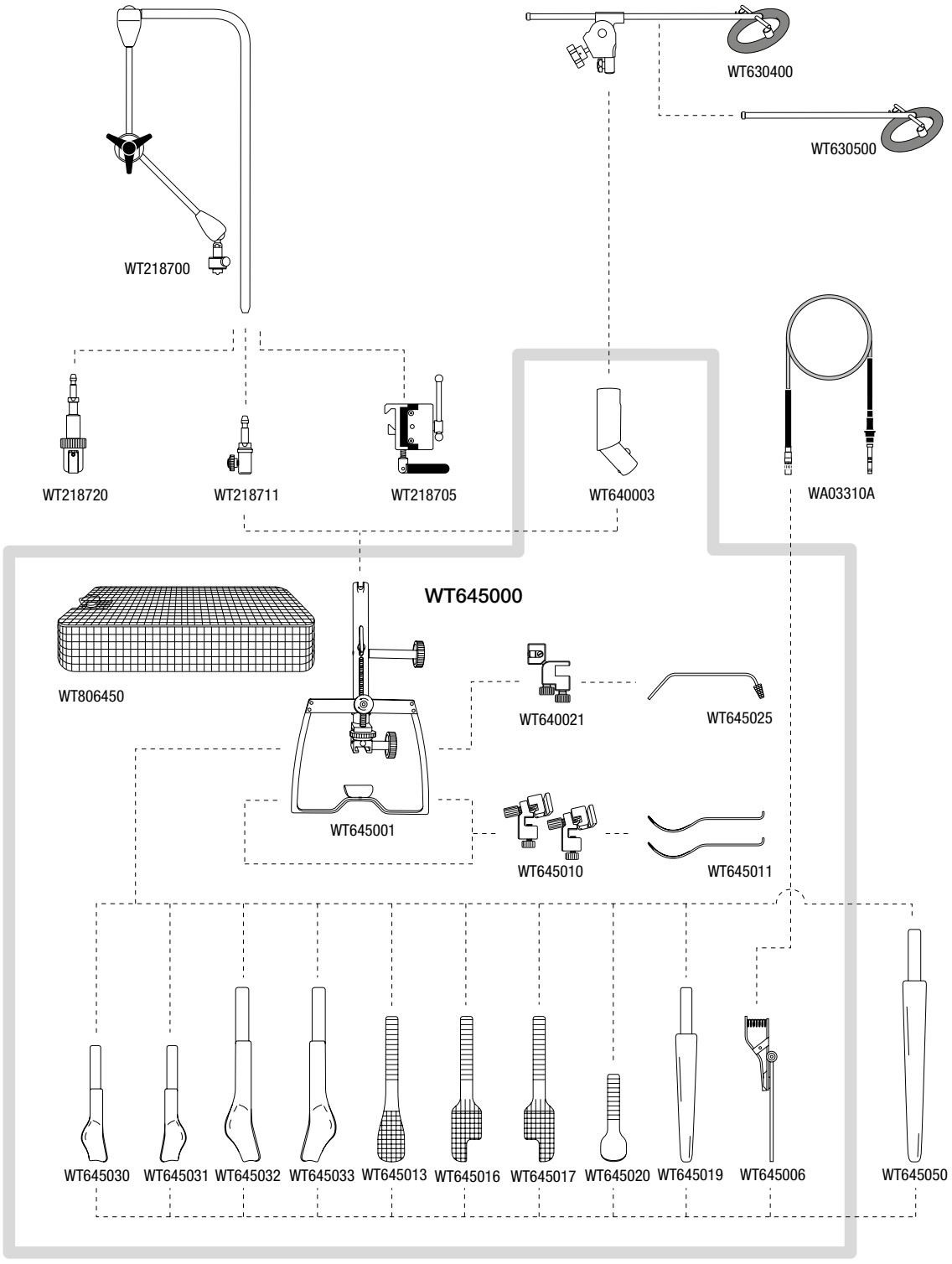


For details, see page 353.

FK-WO TORS

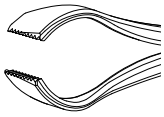
Laryngo-Pharyngoscope Retractor (cont.)

System Chart

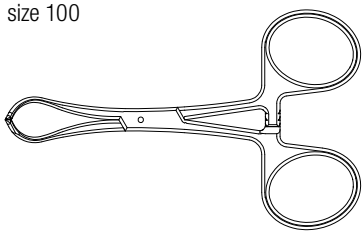


Recommended Instruments

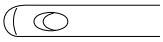
Towel forceps
non penetrating, 10 cm total length



WT550081 Towel forceps, non-perforating,
size 100



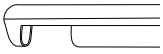
Suction tube “Velvet Eye”
velvet eye, 4mm diameter,
22 cm working length



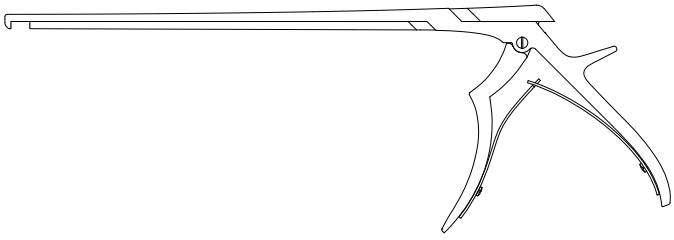
WT841020 Suction tube “Velvet Eye”,
tip closed, with 2 lateral holes, size 220



Punch forceps, acc. to Kerrison
90° down bite, 5mm width,
working length 23 cm

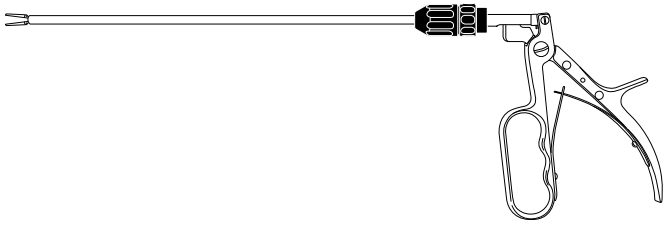


WT513523 Punch forceps, acc. to Kerrison,
90 cutting downward, size 2.0 x 230



Clip applier
working length 23 cm, 5 mm

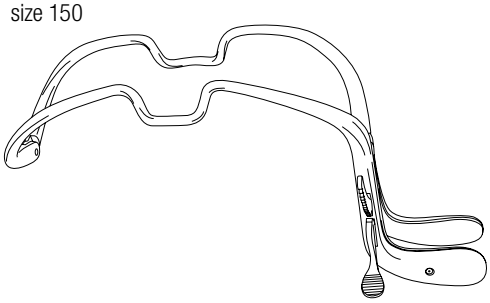
WT640550 Clip applier, for medium clips,
rotatable, size 230



Recommended Instruments (cont.)

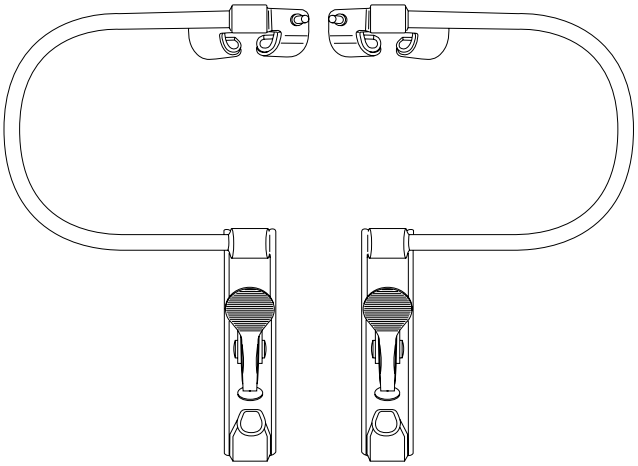
Mouth gag, acc. to Jennings
standard pattern, 15 cm working length

WT523015 Mouth gag, acc. to Jennings,
size 150



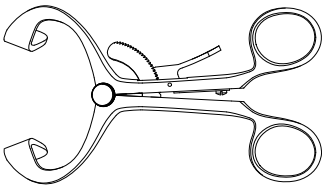
Mouth gag
17 cm total length

WT528350 Mouth gag, right
WT528351 Mouth gag, left



Mouth gag, acc. to Sluder Jansen
55 mm opening, 13.5 cm total length

WT528360 Mouth gag, acc. to Sluder Jansen, size 55



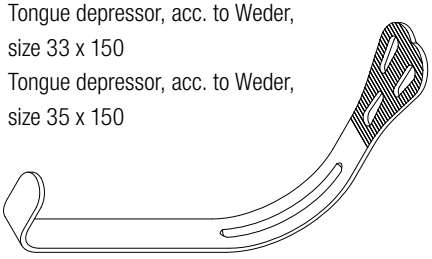
FK-WO TORS

Laryngo-Pharyngoscope Retractor (cont.)

Recommended Instruments (cont.)

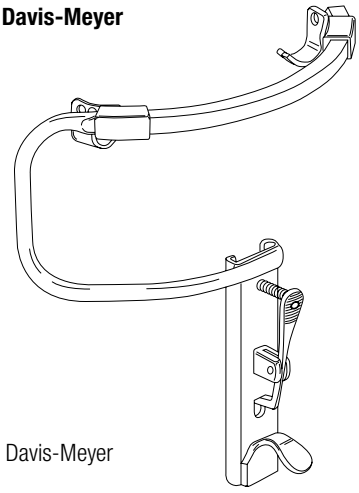
Tongue depressor, acc. to Weder
15 cm total length, various sizes (mm)

WT151601 Tongue depressor, acc. to Weder, size 33 x 150
WT151602 Tongue depressor, acc. to Weder, size 35 x 150



Mouth gag, acc. to Davis-Meyer

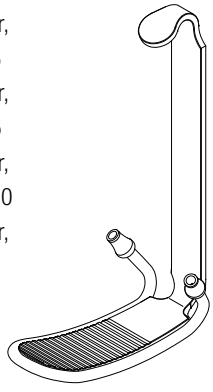
WT528400 Mouth gag, acc. to Davis-Meyer, frame only, right



WT528411 Spare hook, for teeth, set, for mouth gag acc. to Davis-Meyer

Tongue depressor, acc. to Davis-Meyer
various sizes (mm)

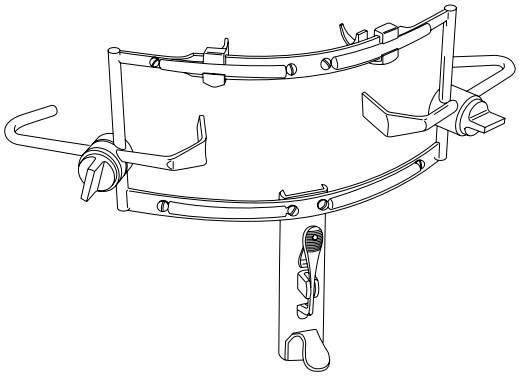
WT528404 Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 32.5 x 85
WT528405 Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 33.5 x 95
WT528406 Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 33.5 x 100
WT528407 Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 34 x 105



Recommended Instruments (cont.)

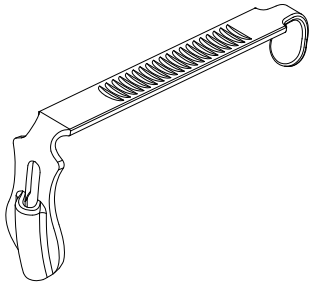
Mouth gag, acc. to Dingmann
frame 15 x 7.5 cm

WT527600 Mouth gag, acc. to Dingmann, frame only



Tongue depressor, acc. to Dingmann
various sizes (mm)

WT527601 Tongue depressor, acc. to Dingmann, size 26 x 65
WT527602 Tongue depressor, acc. to Dingmann, size 29 x 70
WT527603 Tongue depressor, acc. to Dingmann, size 32 x 82

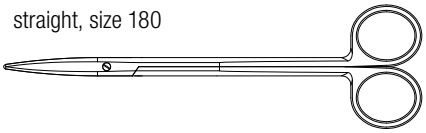


Recommended Instruments (cont.)

Dissection scissors, acc. to Metzenbaum
straight, 18 cm total length



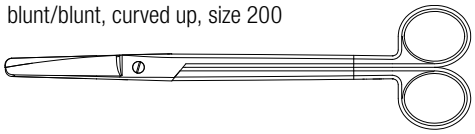
WT541818 Dissection scissors,
acc. to Metzenbaum,
straight, size 180



Scissors, acc. to Sims
curved, blunt/blunt,
20 cm total length

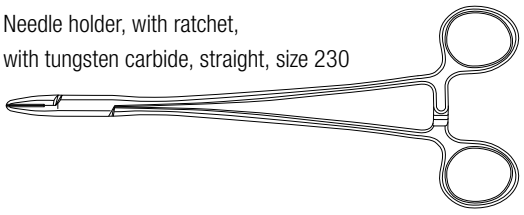


WT541860 Scissors, acc. to Sims,
blunt/blunt, curved up, size 200

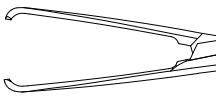


Needle holder
with tungsten carbide inserts, 23 cm total length

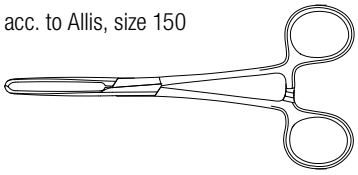
WT640440 Needle holder, with ratchet,
with tungsten carbide, straight, size 230



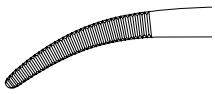
Grasping forceps, acc. to Allis
15 cm total length



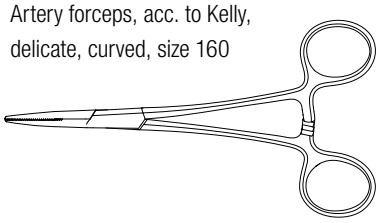
WT187015 Grasping forceps,
acc. to Allis, size 150



Artery forceps, acc. to Kelly
delicate, curved, serrated jaws,
16 cm total length

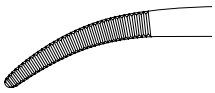


WT186316 Artery forceps, acc. to Kelly,
delicate, curved, size 160

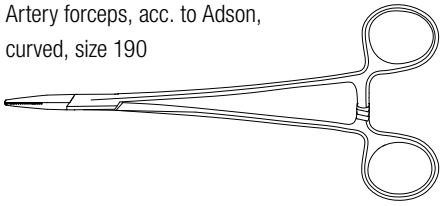


Recommended Instruments (cont.)

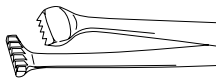
Artery forceps, acc. to Adson
curved, serrated jaws,
19 cm total length



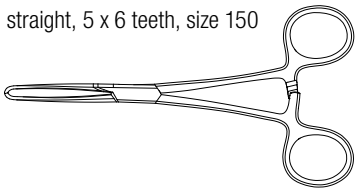
WT186518 Artery forceps, acc. to Adson,
curved, size 190



Grasping forceps, acc. to Allis
straight, 5 x 6 teeth,
15 cm total length



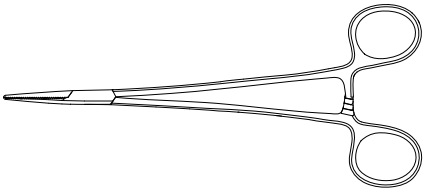
WT186815 Grasping forceps, acc. to Allis,
straight, 5 x 6 teeth, size 150



Artery forceps
serrated, 18 cm total length



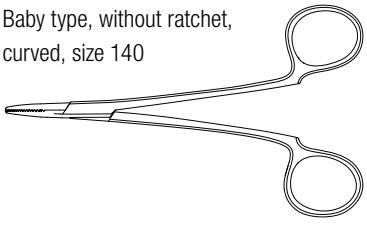
WT565018 Artery forceps, serrated, straight, size 180
WT565218 Artery forceps, serrated, 1x2 teeth, straight, size 180
WT565318 Artery forceps, serrated, curved, size 180
WT565518 Artery forceps, 1x2 teeth, curved, size 180



Artery forceps, acc. to Mixter
14 cm total length



WT186714 Artery forceps, acc. to Mixter,
Baby type, without ratchet,
curved, size 140



OLYMPUS

Your Vision, Our Future

Chest Supports, Suspension Apparatus





- Height-adjustable chest supports
- Models for children and adults
- Bipod for mouth gag suspension
- Chain with ring for mouth gag suspension

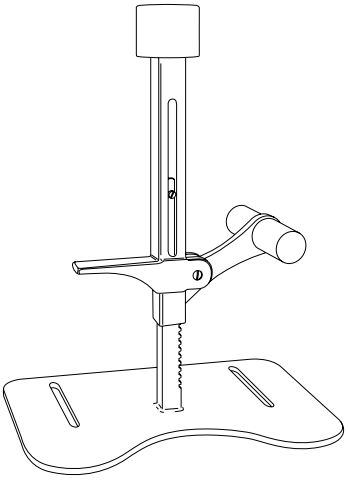
EXPLORENT

Chest Supports

Chest support, acc. to Negus
with band WT529001,
various rod length (cm)

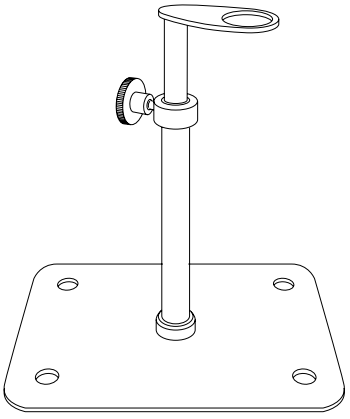
WT529000 Chest support, acc. to Negus, with band, for adults, size 140

WT529100 Chest support, acc. to Negus, with band, for children, size 85



Chest support, Wuerzburg type
rod length 10 cm

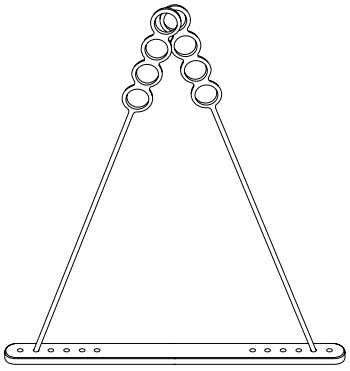
WT529200 Chest support, Wuerzburg type



Suspension Apparatus

Suspension apparatus, bipod, acc. to Draffin
for tongue depressor, WT525001 – WT528407
and mouth gags WT525000 – WT528400

WT524820 Suspension apparatus, bipod, acc. to Draffin, for mouth gags and blades



OLYMPUS

Your Vision, Our Future

Mouth Gags and Tongue Depressors



- Left and right open frame models
- Frames with support for toothless patients
- Tongue depressors with central channel, lateral outlet or anaesthetic tube

EXPLORENT

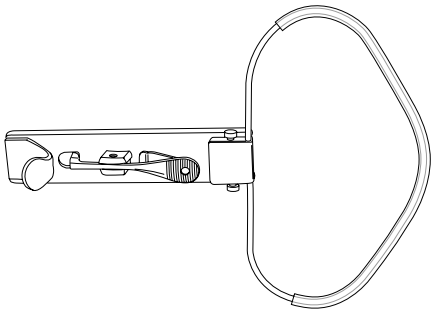
Mouth gag, acc. to McIvor

Mouth gag, acc. to McIvor (not shown)
set
Delivery includes:
Frame WT525000, tongue depressors WT525001, WT525002, WT525003

WT525010 Mouth gag, acc. to McIvor, set with blades WT525001-03

Mouth gag, acc. to McIvor
frame, 15 cm total length
for tongue depressors WT525001 – WT528605

WT525000 Mouth gag, acc. to McIvor, frame only



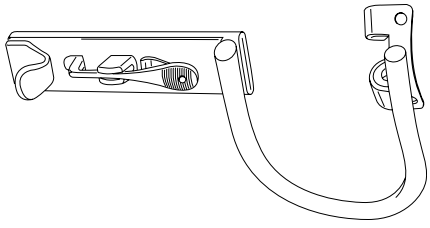
Mouth gag, acc. to Davis-Boyle

Mouth gag, acc. to Davis-Boyle
for tongue depressors WT525001 – WT528605

WT526000 Mouth gag, acc. to Davis-Boyle, opening left, without blade

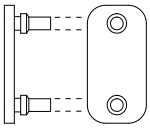
WT526200 Mouth gag, acc. to Davis-Boyle, opening right, without blade

WT526300 Mouth gag, acc. to Davis-Boyle, frame only, for children, left



Bite liner
removable, for WT526000 – WT526300 (not shown)

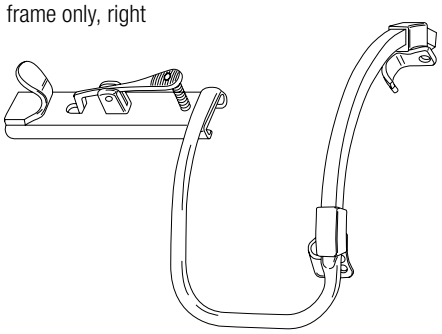
WT526010 Bite liner, silicone, for mouth gag, blue, exchangeable, in pairs



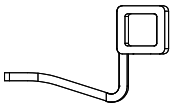
Mouth gag, acc. to Davis-Meyer

Mouth gag, acc. to Davis-Meyer
right frame, 15 cm total length,
for tongue depressors WT525001 – WT528503

WT528400 Mouth gag, acc. to Davis-Meyer, frame only, right



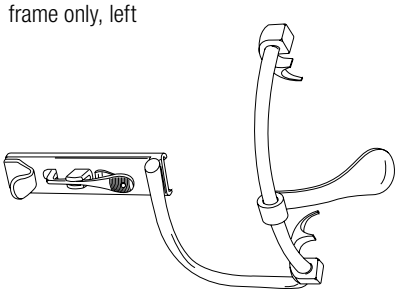
WT528411 Spare hook, for teeth, set, for mouth gag acc. to Davis-Meyer



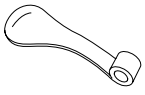
Mouth gag, acc. to Kilner-Doughty

Mouth gag, acc. to Kilner-Doughty
left frame, 15 cm total length,
for tongue depressors WT525001 – WT528605

WT527000 Mouth gag, acc. to Kilner-Doughty, frame only, left



WT527010 Spare support for palate, for mouth gag acc. to Kilner-Doughty
- for toothless patients



WT527020 Spare hook, for teeth, for mouth gag, acc. to Kilner-Doughty

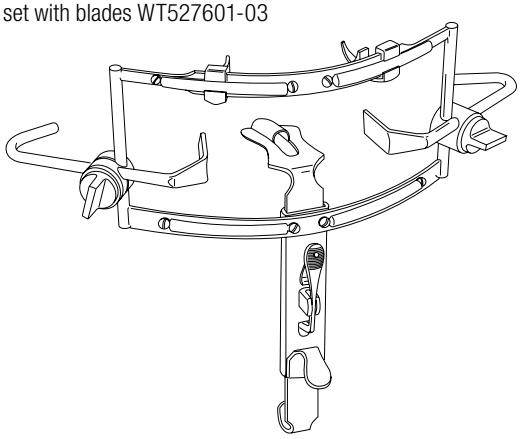


Mouth Gags and Tongue Depressors (cont.)

Mouth gag, acc. to Dingmann

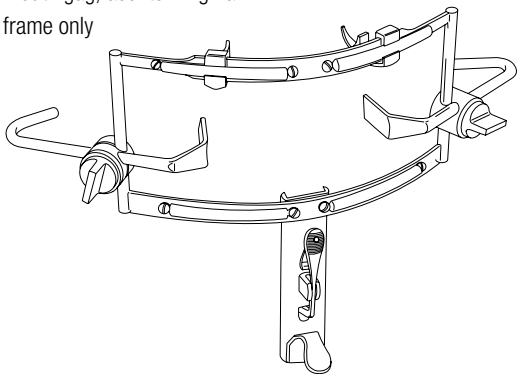
Mouth gag, acc. to Dingmann
set
Delivery includes:
WT527600 frame (with accessories),
WT527601 tongue depressor size 1 = 26 x 62 mm,
WT527602 tongue depressor size 2 = 29 x 65 mm,
WT527603 tongue depressor size 3 = 32 x 75 mm

WT527610 Mouth gag, acc. to Dingmann,
set with blades WT527601-03



Mouth gag, acc. to Dingmann
frame only
Delivery includes:
Frame with two suture holders (spiral springs), two tooth hooks, two cheekholders, two screw joints

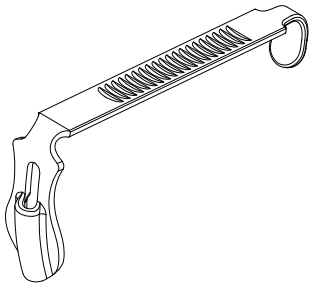
WT527600 Mouth gag, acc. to Dingmann
frame only



Mouth gag, acc. to Dingmann (cont.)

Tongue depressor, acc. to Dingmann
in various sizes (mm)

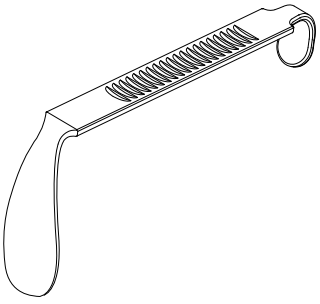
WT527601 Tongue depressor, acc. to Dingmann, size 26 x 65
WT527602 Tongue depressor, acc. to Dingmann, size 29 x 70
WT527603 Tongue depressor, acc. to Dingmann, size 32 x 82



Tongue depressor, acc. to McIvor

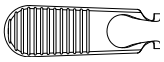
Tongue depressor, acc. to McIvor
smooth,
for frame WT525000,
in various sizes (mm)

WT525001 Tongue depressor, acc. to McIvor, smooth, size 23 x 70
WT525002 Tongue depressor, acc. to McIvor, smooth, size 25 x 91
WT525003 Tongue depressor, acc. to McIvor, smooth, size 26 x 103

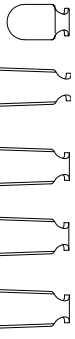


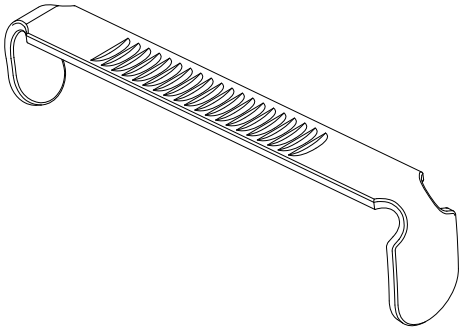
Tongue depressor, acc. to Davis-Boyle

Tongue depressor, acc. to Davis-Boyle
smooth blades,
13.5 cm total length,
in various sizes (mm)

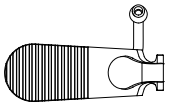


WT526001	Tongue depressor, acc. to Davis-Boyle, smooth, size 24 x 35
WT526002	Tongue depressor, acc. to Davis-Boyle, smooth, size 23 x 70
WT526003	Tongue depressor, acc. to Davis-Boyle, smooth, size 24 x 85
WT526004	Tongue depressor, acc. to Davis-Boyle, smooth, size 25 x 96
WT526005	Tongue depressor, acc. to Davis-Boyle, smooth, size 26 x 109

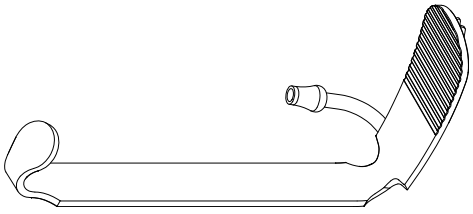




Tongue depressor, acc. to Davis-Boyle
with anaesthetic tube,
in various sizes (mm)

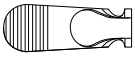


WT526102	Tongue depressor, acc. to Davis-Boyle, with anaesthesia tube, size 23 x 65
WT526103	Tongue depressor, acc. to Davis-Boyle, with anaesthesia tube, size 24 x 80
WT526104	Tongue depressor, acc. to Davis-Boyle, with anaesthesia tube, size 25 x 93
WT526105	Tongue depressor, acc. to Davis-Boyle, with anaesthesia tube, size 26 x 108

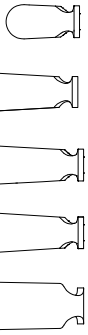


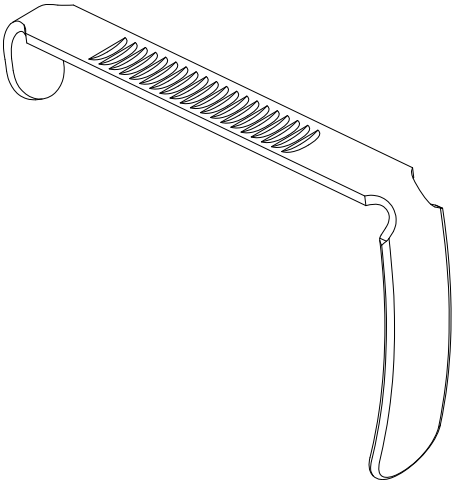
Tongue depressor, acc. to Davis-Boyle (cont.)

Tongue depressor, acc. to Davis-Boyle
for children, smooth blades,
only for mouth gag WT526300,
in various sizes (mm)



WT526301	Tongue depressor, acc. to Davis-Boyle, for children, smooth, size 17 x 32
WT526302	Tongue depressor, acc. to Davis-Boyle, for children, smooth, size 19 x 48
WT526303	Tongue depressor, acc. to Davis-Boyle, for children, smooth, size 20 x 60
WT526304	Tongue depressor, acc. to Davis-Boyle, for children, smooth, size 22 x 72
WT526305	Tongue depressor, acc. to Davis-Boyle, for children, smooth, size 22 x 80

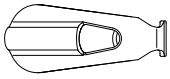




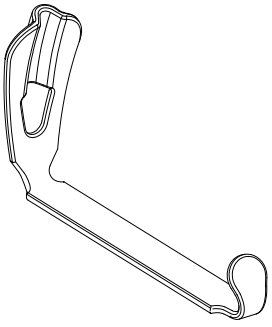
Mouth Gags and Tongue Depressors (cont.)

Tongue depressor, acc. to Russel-Davis

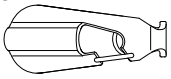
Tongue depressor, acc. to Russel-Davis
with central channel,
in various sizes (mm)



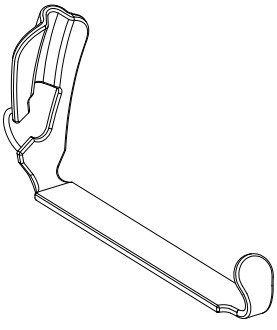
WT527001	Tongue depressor, acc. to Russel-Davis, with central channel, size 30 x 70
WT527002	Tongue depressor, acc. to Russel-Davis, with central channel, size 34 x 80
WT527003	Tongue depressor, acc. to Russel-Davis, with central channel, size 39 x 85
WT527004	Tongue depressor, acc. to Russel-Davis, with central channel, size 42 x 98
WT527005	Tongue depressor, acc. to Russel-Davis, with central channel, size 47 x 107



Tongue depressor, acc. to Russel-Davis
with central channel and lateral outlet,
in various sizes (mm)

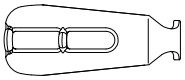


WT528601	Tongue depressor, acc. to Russel-Davis, size 30 x 65
WT528602	Tongue depressor, acc. to Russel-Davis, size 34 x 75
WT528603	Tongue depressor, acc. to Russel-Davis, size 39 x 80
WT528604	Tongue depressor, acc. to Russel-Davis, size 42 x 94
WT528605	Tongue depressor, acc. to Russel-Davis, size 47 x 104

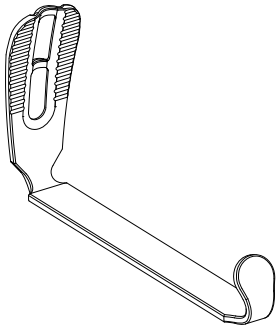


Tongue depressor, acc. to Würzburg

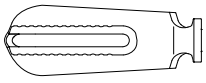
Tongue depressor, acc. to Würzburg
in various sizes (mm)



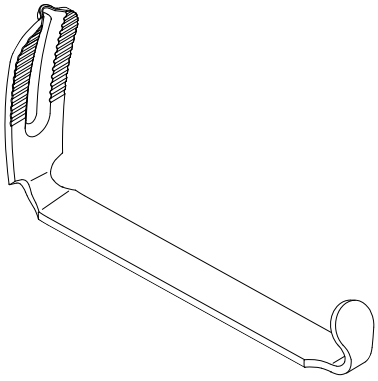
WT528001	Tongue depressor, acc. to Würzburg, size 28 x 70
WT528002	Tongue depressor, acc. to Würzburg, size 32 x 78
WT528003	Tongue depressor, acc. to Würzburg, size 34 x 85
WT528004	Tongue depressor, acc. to Würzburg, size 37 x 100
WT528005	Tongue depressor, acc. to Würzburg, size 38 x 106



Tongue depressor, acc. to Doughty
in various sizes (mm)

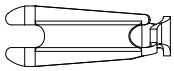


WT528701	Tongue depressor, acc. to Doughty, with slot for intubation tube, size 65
WT528702	Tongue depressor, acc. to Doughty, with slot for intubation tube, size 75
WT528703	Tongue depressor, acc. to Doughty, with slot for intubation tube, size 90

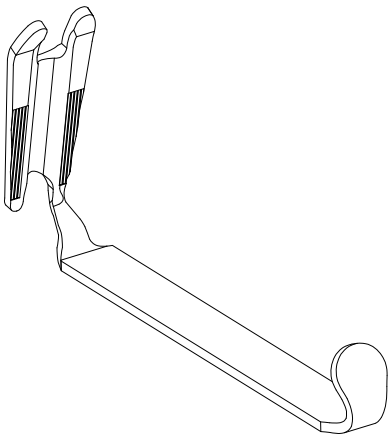


Tongue depressor, acc. to Ring

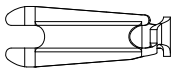
Tongue depressor, acc. to Ring
left side,
in various sizes (mm)



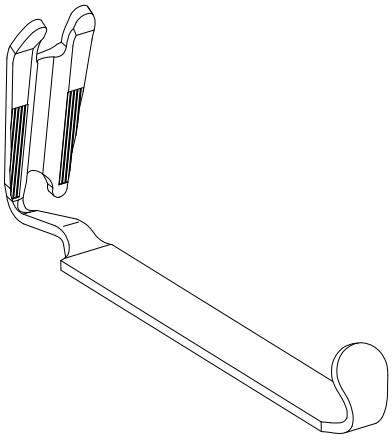
WT528202	Tongue depressor, acc. to Ring, left, size 24 x 65
WT528203	Tongue depressor, acc. to Ring, left, size 28 x 75
WT528204	Tongue depressor, acc. to Ring, left, size 34 x 91
WT528205	Tongue depressor, acc. to Ring, left, size 37 x 102



Tongue depressor, acc. to Ring
right side,
in various sizes (mm)

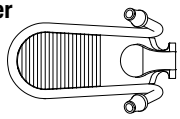


WT528302	Tongue depressor, acc. to Ring, right, size 24 x 65
WT528303	Tongue depressor, acc. to Ring, right, size 28 x 78
WT528304	Tongue depressor, acc. to Ring, right, size 34 x 91
WT528305	Tongue depressor, acc. to Ring, right, size 37 x 102

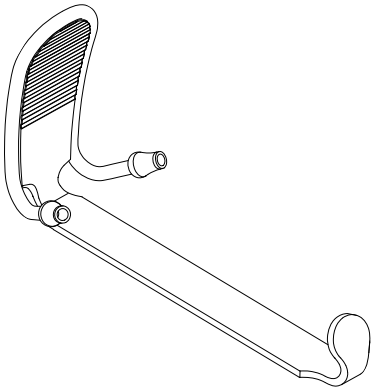


Tongue depressor, acc. to Davis-Meyer

Tongue depressor, acc. to Davis-Meyer
with anaesthetic tubes on both sides,
in various sizes (mm)

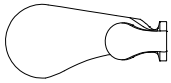


WT528401	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 29 x 70
WT528402	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 30.5 x 75
WT528403	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 31.5 x 80
WT528404	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 32.5 x 85
WT528405	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 33.5 x 95
WT528406	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 33.5 x 100
WT528407	Tongue depressor, acc. to Davis-Meyer, with anaesthesia tubes, size 34 x 105

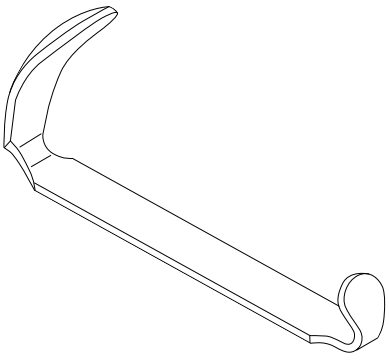


Tongue depressor, acc. to Herberhold

Tongue depressor, acc. to Herberhold
in various sizes (mm)



WT528501	Tongue depressor, acc. to Herberhold, size 29 x 63
WT528502	Tongue depressor, acc. to Herberhold, size 33 x 73
WT528503	Tongue depressor, acc. to Herberhold, size 38 x 80
WT528504	Tongue depressor, acc. to Herberhold, size 42 x 95



Mouth Gags



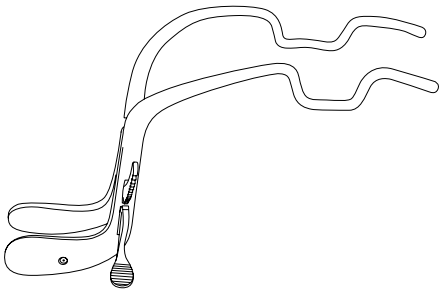
EXPLORENT

- Self-retaining mouth gags, standard and open types

Mouth gag, acc. to Seemann-Seiffert

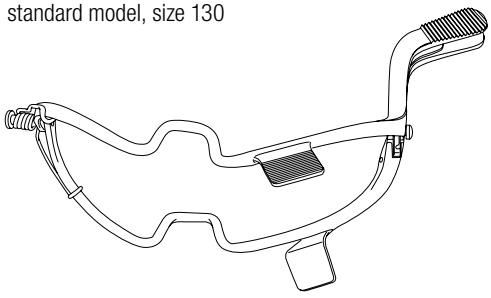
Mouth gag, acc. to Seemann-Seiffert
self retaining,
in various sizes (mm)

WT522009 Mouth gag, acc. to Seemann-Seiffert, size 90
WT522011 Mouth gag, acc. to Seemann-Seiffert, size 110
WT522013 Mouth gag, acc. to Seemann-Seiffert, size 130



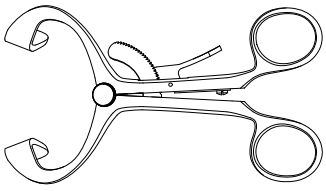
Mouth gag, acc. to Seemann-Seiffert
standard model,
in various sizes (mm)

WT524011 Mouth gag, acc. to Seemann-Seiffert, standard model, size 110
WT524013 Mouth gag, acc. to Seemann-Seiffert, standard model, size 130



Mouth gag, acc. to Sluder Jansen
size 55 mm

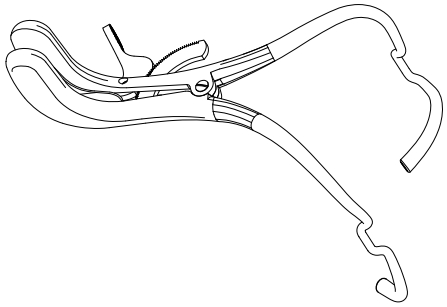
WT528360 Mouth gag, acc. to Sluder Jansen, size 55



Mouth gag, acc. to Jennings

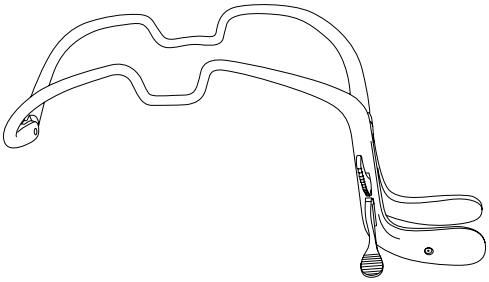
Mouth gag, acc. to Jennings
open type,
in various sizes (mm)

WT520009 Mouth gag, acc. to Jennings, open model, size 95
WT520011 Mouth gag, acc. to Jennings, open model, size 110
WT520013 Mouth gag, acc. to Jennings, open model, size 130



Mouth gag, acc. to Jennings
standard type,
in various sizes (mm)

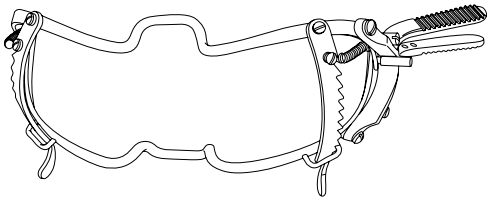
WT523009 Mouth gag, acc. to Jennings, size 90
WT523011 Mouth gag, acc. to Jennings, size 110
WT523013 Mouth gag, acc. to Jennings, size 130
WT523015 Mouth gag, acc. to Jennings, size 150



Mouth gag, acc. to Whitehead

Mouth gag, acc. to Whitehead
in various sizes (mm)

WT521009 Mouth gag, acc. to Whitehead, size 90
WT521011 Mouth gag, acc. to Whitehead, size 110
WT521013 Mouth gag, acc. to Whitehead, size 130



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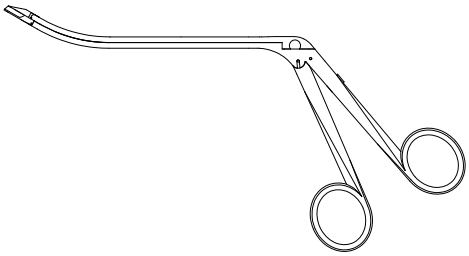
Nasopharyngeal Forceps



- Through-cutting, cupped jaws models
- Shaft and jaws upcurved models
- Ring-shaped jaws conchotome
- Delicate models

EXPLORENT

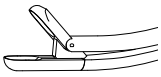
Forceps, acc. to Moriyama





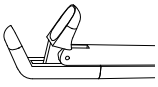
Punch forceps, acc. to Moriyama
fig. 3, shaft upcurved, delicate,
1.5 mm cutting width,
12.5 cm working length

WT326803 Punch forceps, acc. to Moriyama,
through-cutting, sheath curved up,
size 1.5 x 125



Nasal forceps, acc. to Moriyama
fig. 6, oval cups,
shaft upcurved, delicate, oval jaws,
14 cm working length,
2.9 mm jaw width

WT326806 Nasal forceps, acc. to Moriyama
with oval cups, fine, sheath curved up,
size 140



Punch forceps, acc. to Moriyama
fig. 15, shaft and jaws upcurved,
delicate, 1.3 mm cutting width,
12.5 cm working length

WT326815 Punch forceps, acc. to Moriyama,
through-cutting, straight,
size 1.3 x 125

Biopsy Forceps

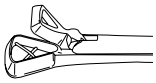


EXPLORENT

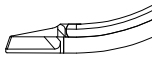
- Triangular and round basket models
- Upcurved and straight shaft models

Grasping forceps

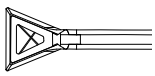
Grasping forceps, acc. to Ronis
triangular basket, upturned shaft,
13 cm working length,
various sizes (mm)

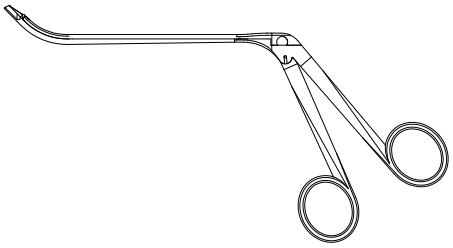


WT502201 Grasping forceps, acc. to Ronis,
for biopsies, curved up, size 7.0 x 130

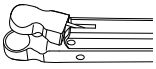


WT502202 Grasping forceps, acc. to Ronis,
for biopsies, curved up, size 8.0 x 130

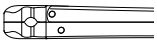


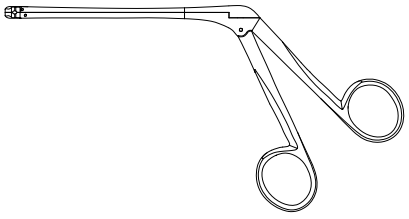


Grasping forceps, acc. to Hildyard
12 cm working length



WT336101 Grasping forceps, acc. to Hildyard,
for biopsies, with cupped jaws, size 120

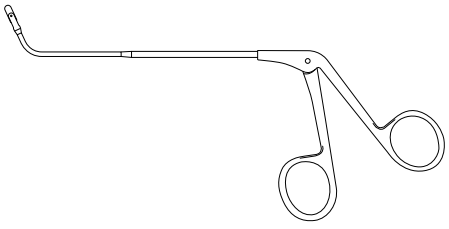




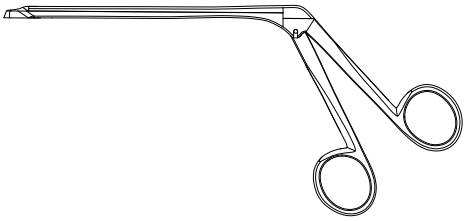
Biopsy forceps
12 cm working length



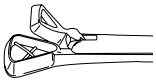
WT335181 Biopsy forceps, cupped jaws,
vertical opening, curved up, size 120



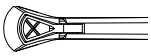
Punch forceps



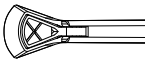
Punch forceps, acc. to Meltzer
triangular jaw, straight shaft,
14 cm working length,
various sizes (mm)



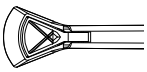
WT502300 Punch forceps, acc. to Meltzer,
with triangular basket, size 6.0 x 140



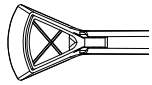
WT502301 Punch forceps, acc. to Meltzer,
with triangular basket, size 7.0 x 140



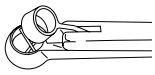
WT502302 Punch forceps, acc. to Meltzer,
with triangular basket, size 8.0 x 140



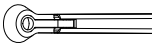
WT502303 Punch forceps, acc. to Meltzer,
with triangular basket, size 10.0 x 140



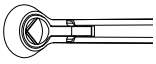
Punch forceps, acc. to Meltzer
straight,
14 cm working length,
various sizes (mm)



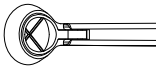
WT502310 Punch forceps, acc. to Meltzer,
with round basket, size 5.0 x 140



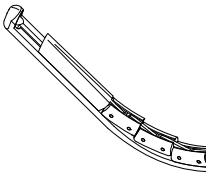
WT502311 Punch forceps, acc. to Meltzer,
with round basket, size 7.0 x 140



WT502312 Punch forceps, acc. to Meltzer,
with round basket, size 8.0 x 140

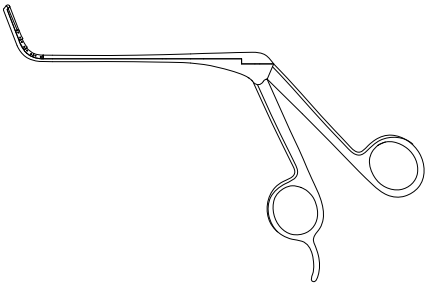


Punch forceps, acc. to Bachert
various sizes (mm)



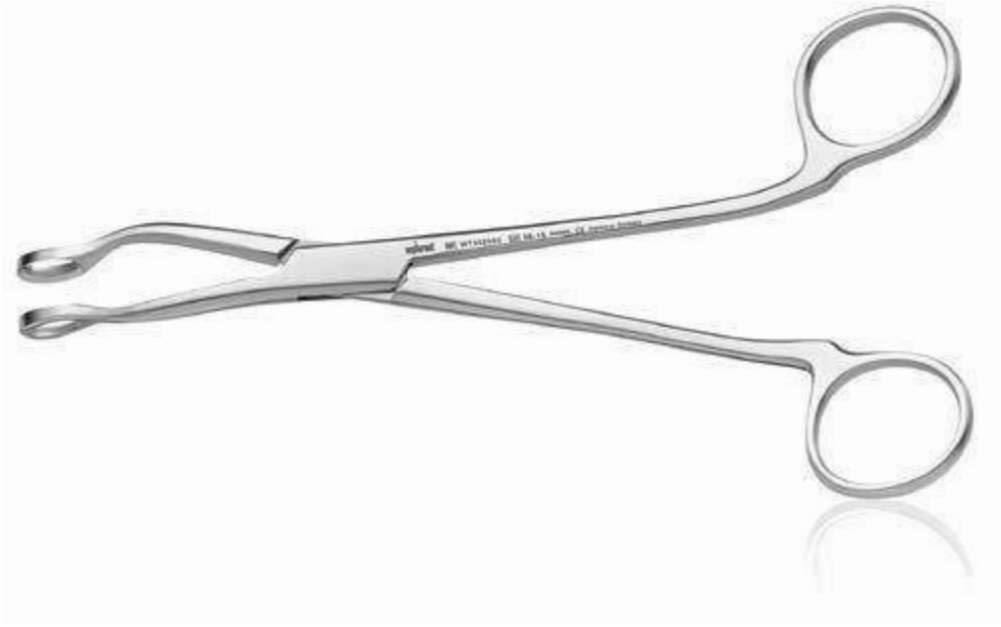
WT512612 Punch forceps, acc. to Bachert,
small, curved up, size 2.0

WT512615 Punch forceps, acc. to Bachert,
large, curved up, size 5.0



Adenoid Forceps



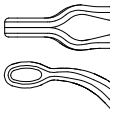


- Sharp jaws forceps
- Special-shaped

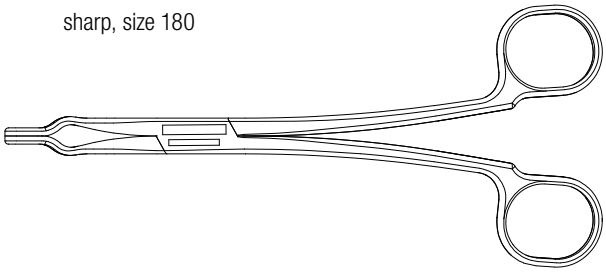
EXPLORENT

Pharyngeal forceps

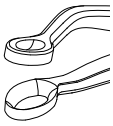
Pharyngeal forceps, acc. to Juracz
slender type, sharp, 18 cm total length



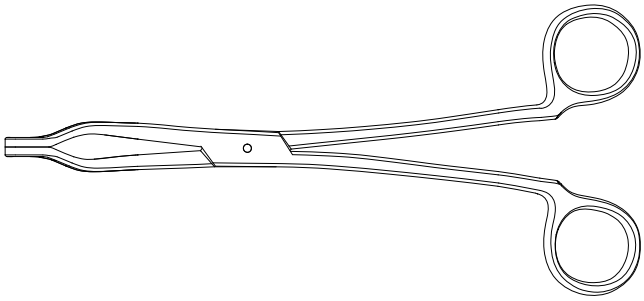
WT501900 Pharyngeal forceps, acc. to Juracz, sharp, size 180



Adenoid forceps, acc. to St Claire-Thomson
sharp, 19 cm total length



WT502000 Adenoid forceps, acc. to St Claire-Thomson, sharp, size 190



OLYMPUS

Your Vision, Our Future

Adenoid Curettes



EXPLORENT

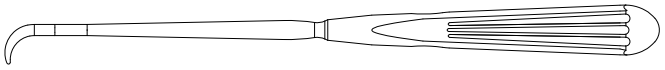
- Models for infants, children and adults
- Models with and without basket

Adenoid curette, acc. to Beckmann

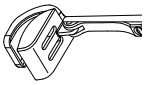
Adenoid curette, acc. to Beckmann
straight, 22 cm total length,
various sizes (mm)



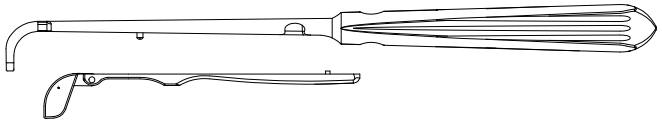
WT540000	Adenoid curette, acc. to Beckmann, straight, size 10.5 x 220	
WT540001	Adenoid curette, acc. to Beckmann, straight, size 12.5 x 220	
WT540002	Adenoid curette, acc. to Beckmann, straight, size 14 x 220	
WT540003	Adenoid curette, acc. to Beckmann, straight, size 16 x 220	
WT540004	Adenoid curette, acc. to Beckmann, straight, size 17.5 x 220	
WT540005	Adenoid curette, acc. to Beckmann, straight, size 20.5 x 220	



Adenoid knife, acc. to Beckmann
straight, 22 cm total length,
with detachable basket,
(with two sharp pins inside the basket),
various sizes (mm)



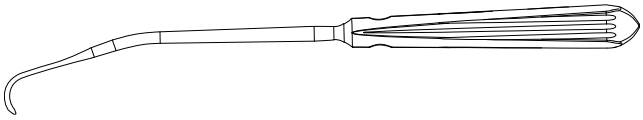
WT540100	Adenoid knife, acc. to Beckmann, with basket, size 9.0 x 220	
WT540101	Adenoid knife, acc. to Beckmann, with basket, size 10 x 220	
WT540102	Adenoid knife, acc. to Beckmann, with basket, size 11 x 220	
WT540103	Adenoid knife, acc. to Beckmann, with basket, size 12 x 220	
WT540104	Adenoid knife, acc. to Beckmann, with basket, size 13 x 220	
WT540105	Adenoid knife, acc. to Beckmann, with basket, size 15 x 220	



Adenoid curette, acc. to Negus

Adenoid curette, acc. to Negus
reverse curved, 21 cm total length
various sizes (mm)

WT540200	Adenoid curette, acc. to Negus, reverse curved, size 10.5 x 210	
WT540201	Adenoid curette, acc. to Negus, reverse curved, size 12.5 x 210	
WT540202	Adenoid curette, acc. to Negus, reverse curved, size 14 x 210	
WT540203	Adenoid curette, acc. to Negus, reverse curved, size 16 x 210	
WT540204	Adenoid curette, acc. to Negus, reverse curved, size 17.5 x 210	
WT540205	Adenoid curette, acc. to Negus, reverse curved, size 20 x 210	

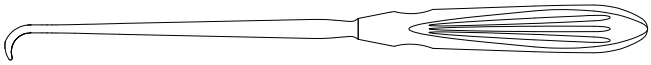


Adenoid curette, acc. to Barnhill

Adenoid curette, acc. to Barnhill
21.5 cm total length,
various sizes (mm)



WT540400	Adenoid curette, acc. to Barnhill, size 11 x 215	
WT540401	Adenoid curette, acc. to Barnhill, size 12 x 215	
WT540402	Adenoid curette, acc. to Barnhill, size 15 x 215	
WT540403	Adenoid curette, acc. to Barnhill, size 17 x 215	
WT540404	Adenoid curette, acc. to Barnhill, size 20 x 215	

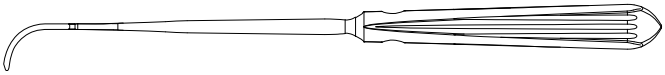


Adenoid curette, acc. to Jones

Adenoid curette, acc. to Jones
22.5 cm total length, narrow tip,
various sizes (mm)



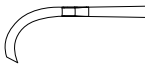
WT540701	Adenoid curette, acc. to Jones, for infants, straight, size 4.0 x 225	
WT540702	Adenoid curette, acc. to Jones, for children, straight, size 6.0 x 225	
WT540703	Adenoid curette, acc. to Jones, for adults, curved, size 8.0 x 225	



Adenoid Curettes
(cont.)

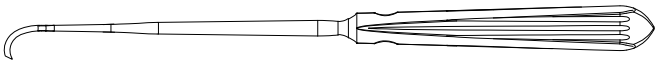
Adenoid curette, acc. to Vogel

Adenoid curette, acc. to Vogel
21.5 cm total length, infant size, 7 mm



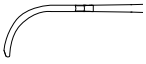
WT540800 Adenoid curette, acc. to Vogel, for infants, curved, size 7.0 x 215





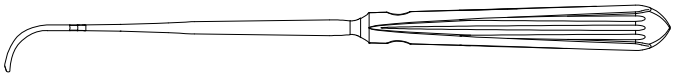
Adenoid curette, acc. to Middleton

Adenoid curette, acc. to Middleton
22.5 cm total length,
long narrow tip, size 7 mm



WT540850 Adenoid curette, acc. to Middleton, size 7.0 x 225



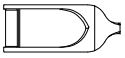


Adenoid curette, acc. to Stubbs

Adenoid curette, acc. to Stubbs
22 cm total length, shaft angled,
available in various sizes (mm)



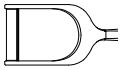
WT540900 Adenoid curette, acc. to Stubbs, curved, size 11 x 225



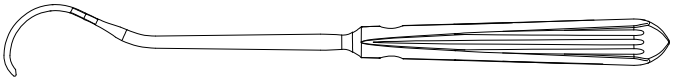
WT540901 Adenoid curette, acc. to Stubbs, curved, size 14 x 225



WT540902 Adenoid curette, acc. to Stubbs, curved, size 16 x 225



WT540903 Adenoid curette, acc. to Stubbs, curved, size 18 x 225



Adenotomes

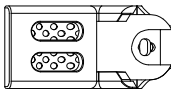


EXPLORENT

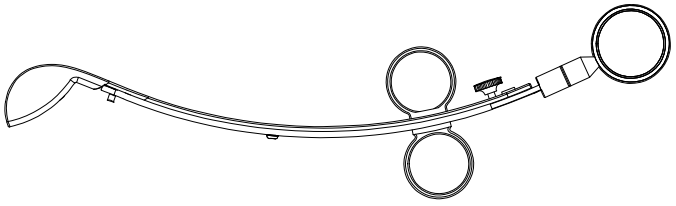
- Simplified model, easily detachable

Adenotome, acc. to La Force

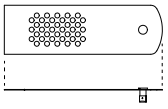
Adenotome, acc. to La Force
simplified model, easy detachable,
various sizes (mm), 23 cm total length



WT540501	Adenotome, acc. to La Force, simplified model, size 14 x 230
WT540502	Adenotome, acc. to La Force, simplified model, size 11.5 x 230
WT540503	Adenotome, acc. to La Force, simplified model, size 8.5 x 230



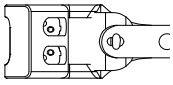
Blade
spare for adenotomes,
various widths (mm)



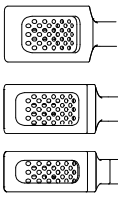
WT540511	Blade, for Adenotomes WT540501 and WT540601
WT540512	Blade, for Adenotomes WT540502 and WT540602
WT540513	Blade, for Adenotomes WT540503 and WT540603

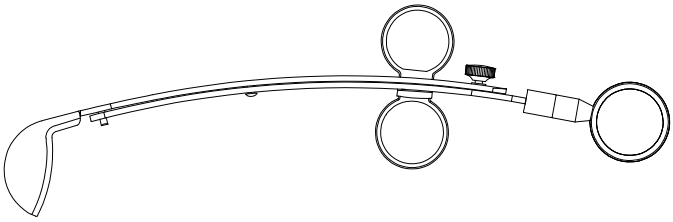
Adenotome, acc. to Shambough

Adenotome, acc. to Shambough
various sizes (mm), 23 cm total length



WT540601	Adenotome, acc. to Shambough, simplified model, size 18 x 230
WT540602	Adenotome, acc. to Shambough, simplified model, size 16 x 230
WT540603	Adenotome, acc. to Shambough, simplified model, size 12 x 230







- Hook for arch palate
- Retractors for pillar and uvula
- Retractors for thymus and trachea
- Single- and double-ended models with blunt and sharp prongs

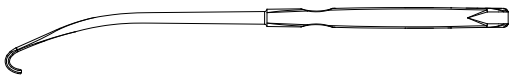
EXPLORENT

Adenotomy Retractors

Retractor, acc. to Nager
upcurved, width 15 mm, 21 cm total length



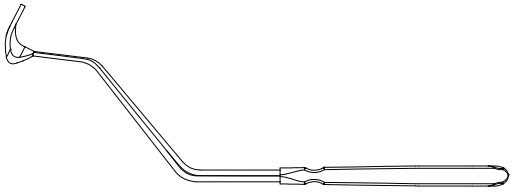
WT543000 Retractor, acc. to Nager, for soft palate, size 15 x 210



Retractor, acc. to Hofer
width max. 25 mm, 23 cm total length



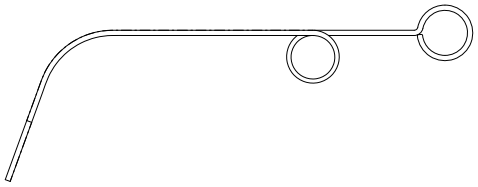
WT543500 Retractor, acc. to Hofer, for soft palate, size 25 x 230



Cotton Applicators

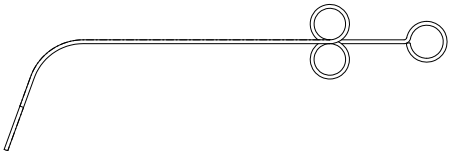
Cotton applicator, acc. to Fein
23.5 cm total length, 2.5 mm diameter

WT156000 Cotton applicator, acc. to Fein, size 260



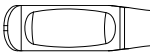
Cotton applicator, acc. to Pelteson
30 cm total length, 2.5 mm diameter

WT156100 Cotton applicator, acc. to Pelteson, size 235

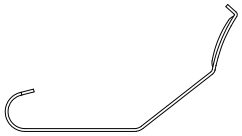


Uvula retractors

Retractor, acc. to Love
15 cm total length, various diameters (mm)



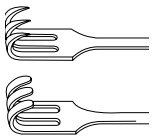
WT543618 Retractor, acc. to Love, for uvula, size 18 x 150
WT543620 Retractor, acc. to Love, for uvula, size 20 x 150



Neck Dissection Retractors

Hook, acc. to Senn-Miller
16 cm total length

WT564000 Hook, acc. to Senn-Miller, sharp, size 160
WT564100 Hook, acc. to Senn-Miller, 3 prongs, sharp, size 160

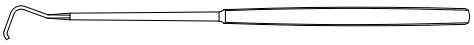




Retractor, acc. to Schoenborn
21 cm total length

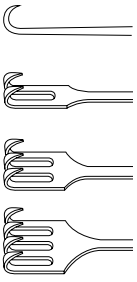


WT566900 Retractor, acc. to Schoenborn, for thyroid glands, size 210



Tracheal hook
16 cm total length

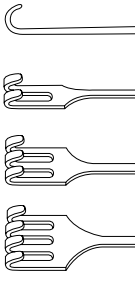
WT567001 Tracheal hook, 1 prong, sharp, size 160
WT567002 Tracheal hook, 2 prongs, sharp, size 160
WT567003 Tracheal hook, 3 prongs, sharp, size 160
WT567004 Tracheal hook, 4 prongs, sharp, size 160





Tracheal hook
16 cm total length

WT568001 Tracheal hook, 1 prong, blunt, size 160
WT568002 Tracheal hook, 2 prongs, blunt, size 160
WT568003 Tracheal hook, 3 prongs, blunt, size 160
WT568004 Tracheal hook, 4 prongs, blunt, size 160





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Epipharynx Instrument Set

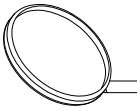


EXPLORENT

- Set for precise adenoidectomy under vision

Mirrors

Laryngeal mirror
stainless steel, autoclavable,
with fixed handle,
19 cm total length, various diameter sizes (mm)

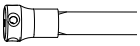


WT153906 Mirror, with handle, size 22
WT153907 Mirror, with handle, size 24

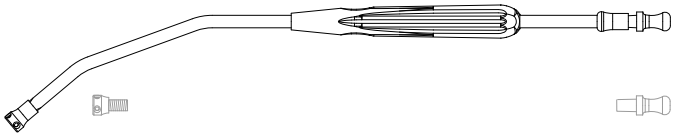


Suction Tubes and Curettes

Suction tube, acc. to Yankauer
27 cm total length, detachable tip,
19.5 cm working length, 6 mm outer diameter,
4.5 mm inner diameter

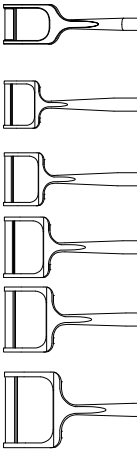


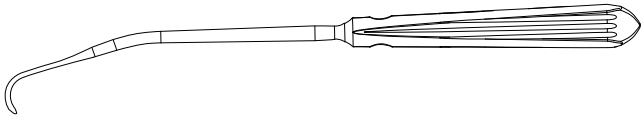
WT534000 Suction tube, acc. to Yankauer, detachable tip, size 270



Adenoid curette, acc. to Negus
21 cm total length, reverse curved,
various sizes (mm)

WT540200 Adenoid curette, acc. to Negus, reverse curved, size 10.5 x 210
WT540201 Adenoid curette, acc. to Negus, reverse curved, size 12.5 x 210
WT540202 Adenoid curette, acc. to Negus, reverse curved, size 14 x 210
WT540203 Adenoid curette, acc. to Negus, reverse curved, size 16 x 210
WT540204 Adenoid curette, acc. to Negus, reverse curved, size 17.5 x 210
WT540205 Adenoid curette, acc. to Negus, reverse curved, size 20 x 210

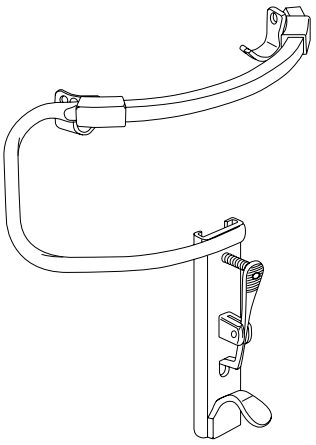




Mouth gag, acc. to Davis-Meyer

Mouth gag, acc. to Davis-Meyer
right frame, for tongue depressors
WT525001–WT528503, 15 cm total length

WT528400 Mouth gag, acc. to Davis-Meyer, frame only, right



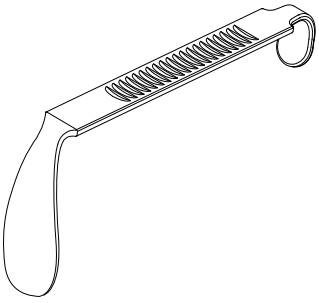
Epipharynx Instrument Set (cont.)

Tongue depressor, acc. to McIvor

Tongue depressor, acc. to McIvor
smooth, for frame 525000,
various widths (mm) and lengths (mm)

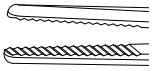


WT525001	Tongue depressor, acc. to McIvor, smooth, size 23 x 70
WT525002	Tongue depressor, acc. to McIvor, smooth, size 25 x 91
WT525003	Tongue depressor, acc. to McIvor, smooth, size 26 x 103



Forceps

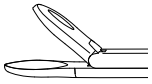
Thumb forceps
serrated, delicate, 14.5 cm total length



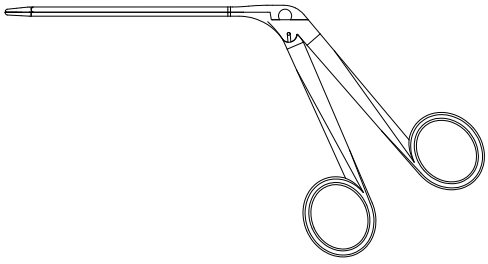
WT209001 Thumb forceps, narrow, straight, size 145



Nasal forceps, acc. to Blakesley,
straight, 11.5 cm working length,
size 2, 4.0 mm jaws width



WT330002 Nasal forceps, acc. to Blakesley, straight, size 4.0 x 115



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Tongue Depressors



- Models with flat light handle and solid handle
- Models for children and adults
- Straight, s-shaped and angled models

EXPLORENT

Tongue depressor, acc. to Brünings

Tongue depressor, acc. to Brünings
double-ended, width 18/14 mm,
stainless steel, 19 cm total length

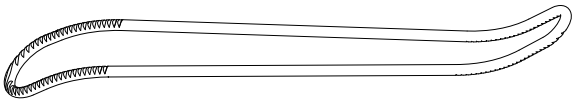
WT151000 Tongue depressor, acc. to Brünings, size 18 x 14 190



Tongue depressor, acc. to Frenzel

Tongue depressor, acc. to Frenzel
double-ended, width 12/23 mm,
stainless steel, 17 cm total length

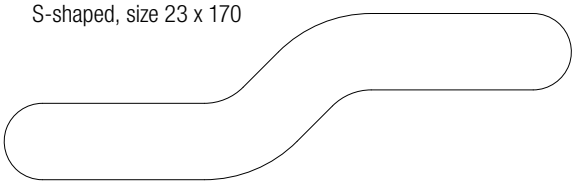
WT151100 Tongue depressor, acc. to Frenzel, size 12 x 23 170



Tongue depressor, Explorent type

Tongue depressor, Explorent type
double-ended, width 23 mm,
stainless steel, 17 cm total length

WT152000 Tongue depressor, Explorent type,
S-shaped, size 23 x 170

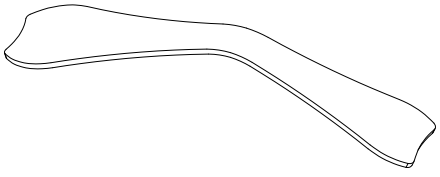


Tongue depressor, acc. to Doyen

Tongue depressor, acc. to Doyen
double-ended, stainless steel,
total length (mm), widths 24 mm and 30 mm

WT152100 Tongue depressor, acc. to Doyen,
for children, size 24 x 30 130

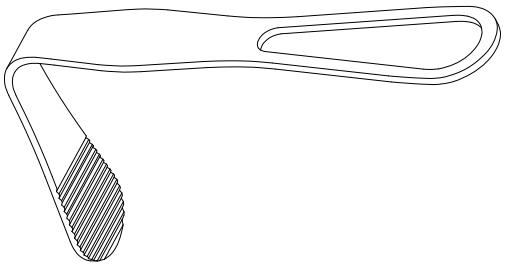
WT152200 Tongue depressor, acc. to Doyen,
for adults, size 30 x 34 160



Tongue depressor, acc. to Hartmann

Tongue depressor, acc. to Hartmann
width 25 mm, stainless steel, 15 cm blade length

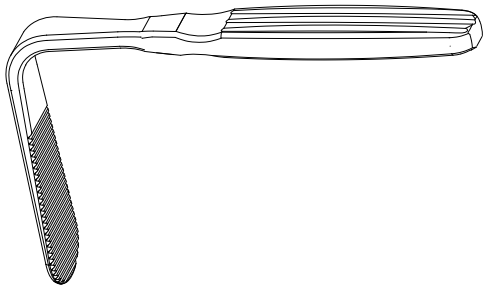
WT152500 Tongue depressor, acc. to Hartmann, size 25 x 150



Tongue depressor, acc. to Tobold

Tongue depressor, acc. to Tobold
width 25 mm, stainless steel, solid, 14.5 cm total length,
8.8 cm blade length

WT152600 Tongue depressor, acc. to Tobold, size 25 x 145



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Scalpels and Knives

for Tonsillectomy



- Scalpels:
  with long handles, sterile scalpel blades
- Tonsil knives:
  with curved blades, knife and dissector model

EXPLORENT

Scalpels

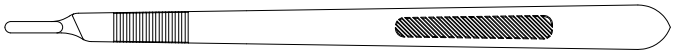
Scalpel handle
No. 7, 16.5 cm total length

WT429007 Scalpel handle, no. 7, solid, long, size 165



Scalpel handle
No. 3 L, 21.5 cm total length

WT429103 Scalpel handle, no. 3L, solid, straight, size 215



Tonsil Knives

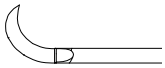
Tonsil knife, acc. to Abraham
slightly curved tip, 21 cm total length



WT548000 Tonsil knife, acc. to Abraham, size 210



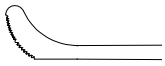
Tonsil knife, acc. to Bruenings
strongly curved tip, 23 cm total length



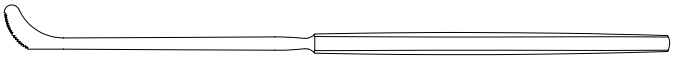
WT549000 Tonsil knife, acc. to Bruenings, size 230



Tonsil knife, acc. to Colver (Fisher)
22.5 cm total length, serrated blade

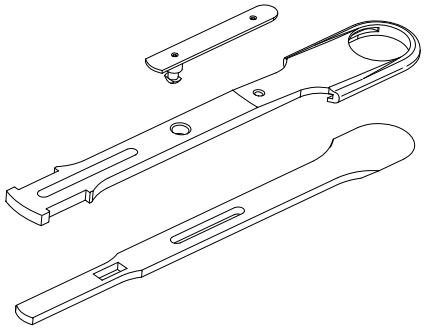


WT549100 Tonsil knife, acc. to Colver (Fisher), size 225

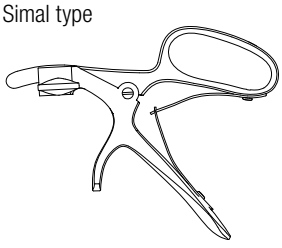


Knife, acc. to Sluder-Ballenger

WT531100 Knife, acc. to Sluder-Ballenger, Simal type, size 0
WT531101 Knife, acc. to Sluder-Ballenger, Simal type, size 1
WT531102 Knife, acc. to Sluder-Ballenger, Simal type, size 2
WT531103 Knife, acc. to Sluder-Ballenger, Simal type, size 3

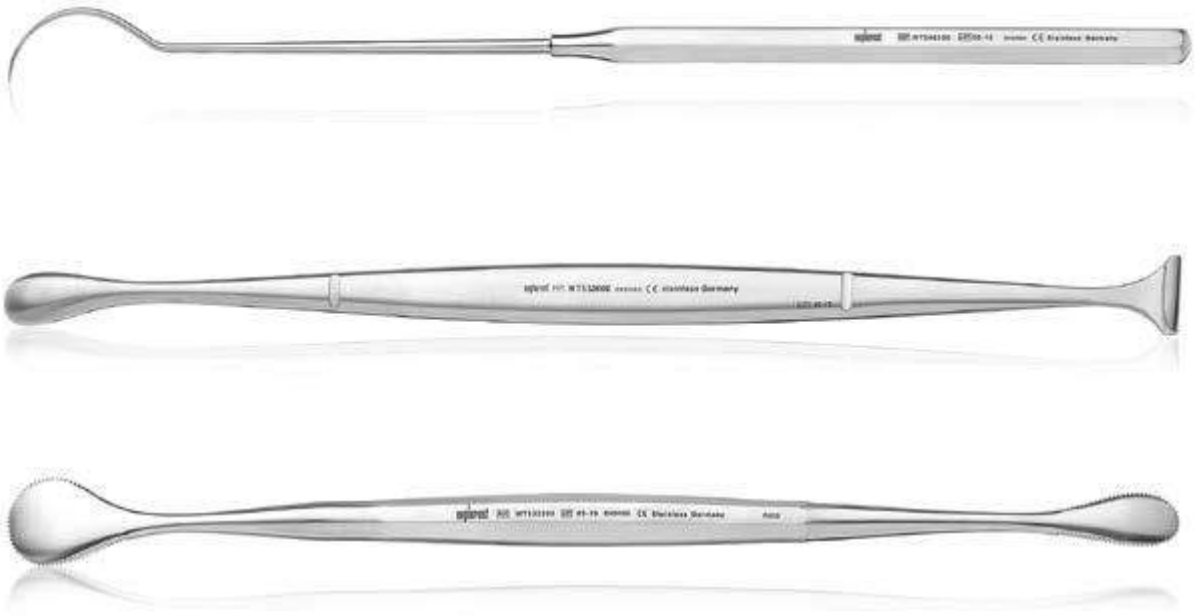


WT531000 Handle, acc. to Sluder Ballenger, Simal type



WT531110 Spare screw, for handle acc. to Sluder (not shown)

Tonsil Dissection

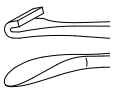


- Double-ended with dissector and separator/retractor
- Models with serrated dissector-blades
- Models with suction dissector
- Curved tonsil needle
- Fork-shaped and blunt knot tier

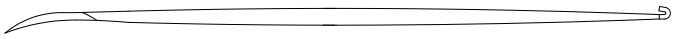
EXPLORENT

Tonsil Dissectors

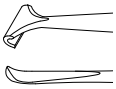
Tonsil dissector and retractor, acc. to Hurd
width 14/10 mm, 23 cm total length



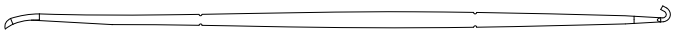
WT533000 Tonsil dissector and retractor, acc. to Hurd, size 14/10 x 230



Tonsil dissector and retractor, acc. to Hurd
width 6.0 mm, 22.5 cm total length



WT533001 Tonsil dissector and retractor, acc. to Hurd, size 6.0 x 225



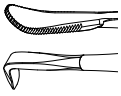
Elevator, accoding to Hurd
tonsil elevator
with fenestrated hook, 23 cm,
width 11.5/14.5 mm



WT533100 Elevator, accoding to Hurd, double-ended, with hook, size 11.5/14.5 x 230



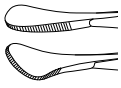
Elevator, acc. to Henke
tonsil dissector and separator,
23 cm total length, small, 12 mm width



WT532001 Elevator, acc. to Henke, small, size 12 x 230



Raspatory, acc. to Henke
tonsil dissector, double-ended,
24 cm total length, width 12 mm/18 mm



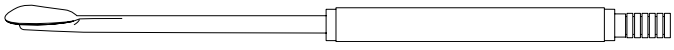
WT532200 Raspatory, acc. to Henke, double-ended, size 12/18 x 240



Elevator, acc. to Stierlen
24 cm total length, width 13.5 mm

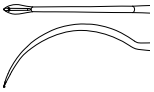


WT532501 Elevator, acc. to Stierlen, with suction channel

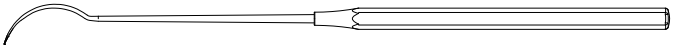


Tonsil needle, acc. to Nager

Tonsil needle, acc. to Nager
24 cm total length, curved



WT546500 Tonsil needle, acc. to Nager, for suture, size 240



Knot pusher

Knot pusher
fork shaped, blunt, 20.5 cm total length

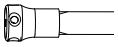


WT547100 Knot pusher, blunt, size 205

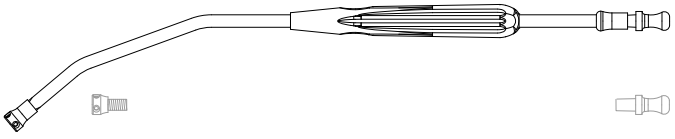


Suction Tube

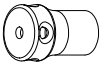
Suction tube, acc. to Yankauer
with tip and Luer connector,
19.5 cm working length, detachable tip,
6 mm outer diameter, 4.5 mm inner diameter,
27 cm total length



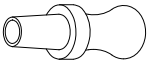
WT534000 Suction tube, acc. to Yankauer, detachable tip, size 270



WT534001 Suction connector, for suction tube WT534000



WT534002 Spare connector, for suction tube acc. to Yankauer



Tonsil Forceps

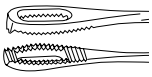


- Straight and curved with slender and very delicate jaws
- Tweezer type models

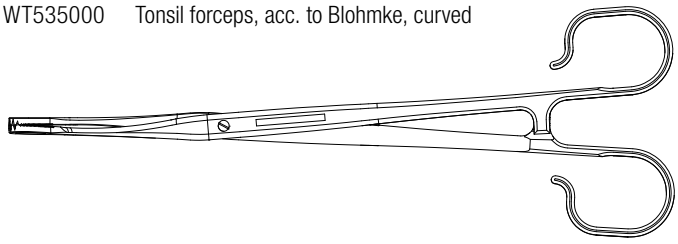
EXPLORENT

Tonsil Forceps with Ratchet

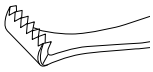
Tonsil forceps, acc. to Blohmke
curved, 21 cm total length



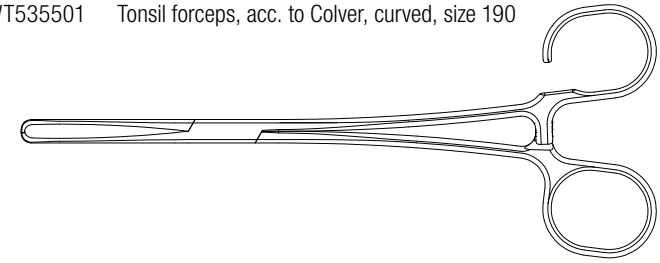
WT535000 Tonsil forceps, acc. to Blohmke, curved



Tonsil forceps, acc. to Colver
19 cm total length



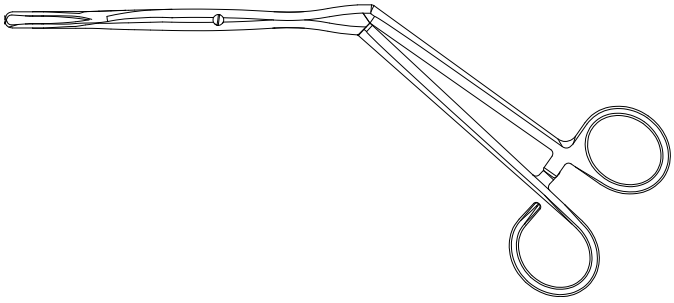
WT535500 Tonsil forceps, acc. to Colver, straight, size 190
WT535501 Tonsil forceps, acc. to Colver, curved, size 190



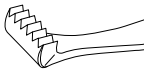
Tonsil forceps, acc. to Tivnen
3 x 3 teeth, 8 mm width, 21 cm total length



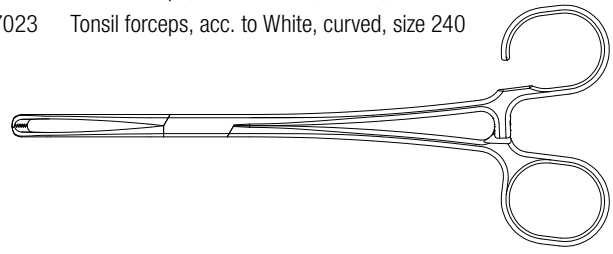
WT536100 Tonsil forceps, acc. to Tivnen, size 210



Tonsil forceps, acc. to White
various sizes (cm), curved,
7 mm, serrated tips



WT537018 Tonsil forceps, acc. to White, curved, size 180
WT537023 Tonsil forceps, acc. to White, curved, size 240

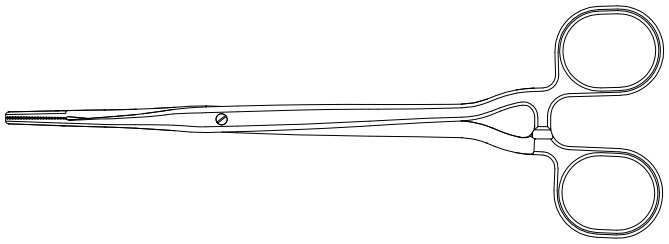


Tonsil Forceps with Ratchet (cont.)

Dressing forceps
curved, with ratchet, 20 cm total length



WT549500 Dressing forceps, with ratchet, curved up, size 200

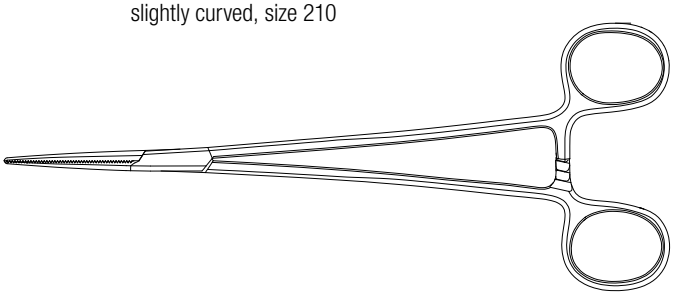


Tonsil forceps, acc. to Heiss
slender, straight, length 21 cm total length

WT550000 Tonsil forceps, acc. to Heiss, straight, size 210

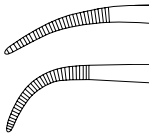
WT550100 Tonsil forceps, acc. to Heiss, slightly curved, size 210

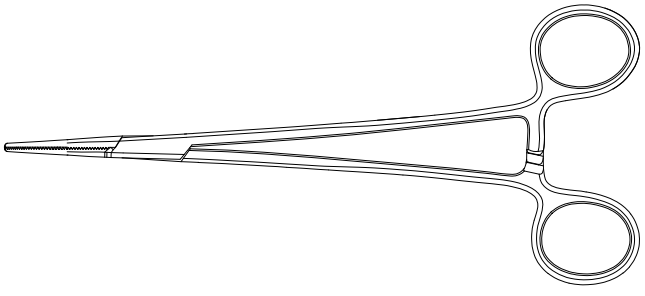




Tonsil forceps, acc. to Schnidt
slender, 19 cm total length

WT551000 Tonsil forceps, acc. to Schnidt, slightly curved, size 190
WT551100 Tonsil forceps, acc. to Schnidt, strong curved, size 190



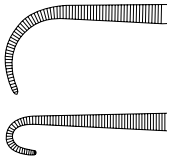


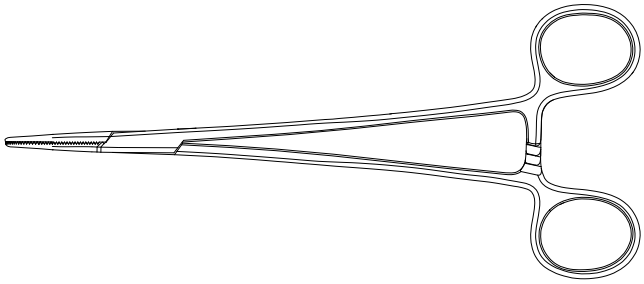
Tonsil Forceps
(cont.)

Tonsil Forceps with Ratchet (cont.)

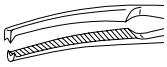
Tonsil forceps, acc. to Negus
slender, 19 cm total length

WT552000 Tonsil forceps, acc. to Negus, slightly curved, size 190
WT552100 Tonsil forceps, acc. to Negus, strong curved, size 190

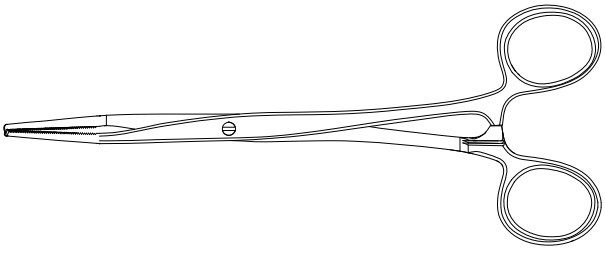




Dissection forceps, acc. to Mikulicz
1 x 2 teeth, slender, length 18 cm



WT552218 Dissection forceps, acc. to Mikulicz, slender, curved up, size 180

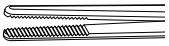


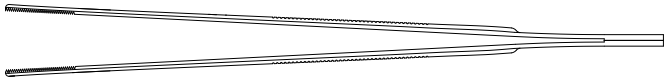
Thumb forceps

Thumb forceps
serrated, straight, delicate, 20 cm total length

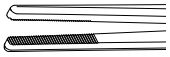
WT209003 Thumb forceps, narrow, straight, size 200
WT209020 Thumb forceps, straight, size 200



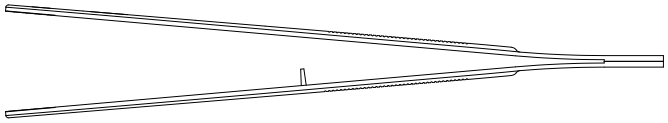




Thumb forceps, acc. to Brophy
straight, 20 cm total length



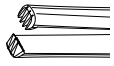
WT551520 Thumb forceps, acc. to Brophy, straight, size 200

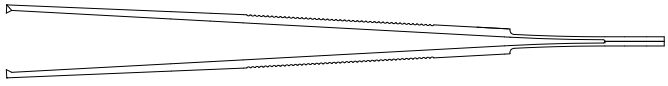


Thumb forceps
straight, 20 cm total length

WT209103 Thumb forceps, for dissection, narrow, size 200
WT209120 Thumb forceps, for dissection, straight, size 200
WT209124 Thumb forceps, for dissection, straight, 3 x 4 teeth, size 200



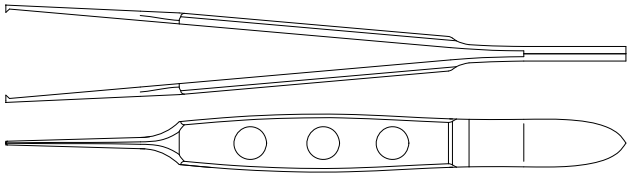




Thumb forceps, acc. to Bishop-Harmon
18.5 cm total length



WT550608 Thumb forceps, for dissection, acc. to Bishop-Harmon, 1 x 2 teeth, size 185



Scissors

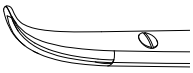


- With tungsten carbide cutting edges for extremely high durability
- Rhombic blade models
- Wire cutter with serrated blades
- Sharp and ball end tips for salivary duct

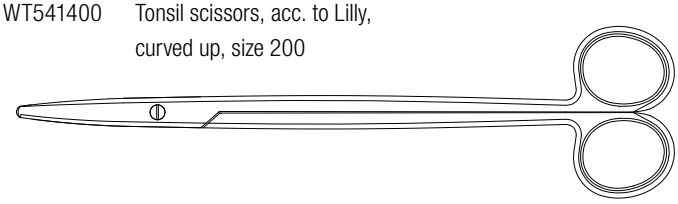
EXPLORENT

Scissors

Tonsil scissors, acc. to Lilly
curved, 20 cm total length



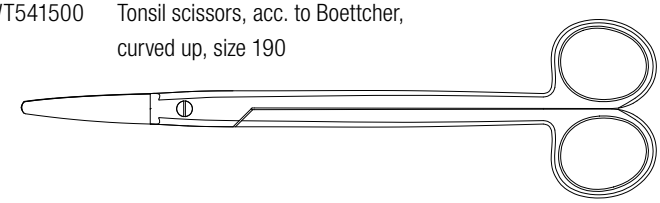
WT541400 Tonsil scissors, acc. to Lilly, curved up, size 200



Tonsil scissors, acc. to Boettcher
curved, 19 cm total length



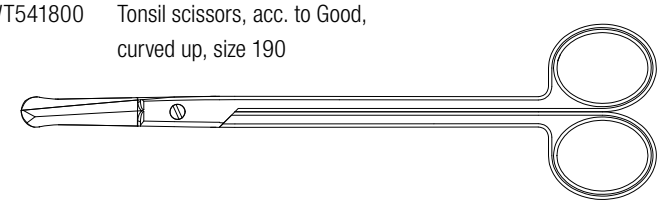
WT541500 Tonsil scissors, acc. to Boettcher, curved up, size 190



Tonsil scissors, acc. to Good
curved, 19 cm total length

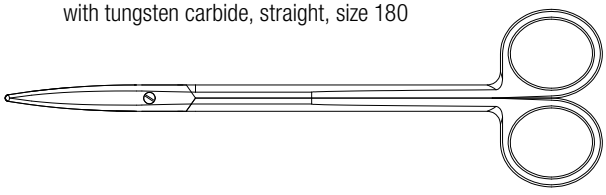


WT541800 Tonsil scissors, acc. to Good, curved up, size 190



Dissection scissors, acc. to Metzenbaum
various sizes (mm)

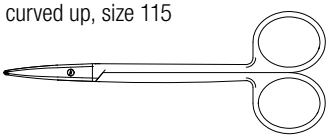
WT542018 Dissection scissors, acc. to Metzenbaum, curved up, size 180
WT542020 Dissection scissors, acc. to Metzenbaum, curved up, size 205
WT542218 Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 180
WT542223 Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 230
WT542318 Dissection scissors, acc. to Metzenbaum, with tungsten carbide, straight, size 180



Scissors (cont.)

Dissection scissors, acc. to Metzenbaum-Fino
17 cm total length

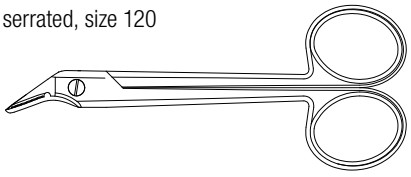
WT542112 Dissection scissors, acc. to Metzenbaum-Fino, curved up, size 115



Wire cutting scissors
saw edge, 12 cm total length, standard blades



WT277901 Wire cutting scissors, universal, serrated, size 120



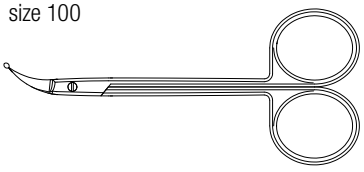
Scissors, acc. to Perwitschky
for salivary duct, 10 cm total length



WT543010 Scissors, acc. to Perwitschky, for salivary duct, size 100



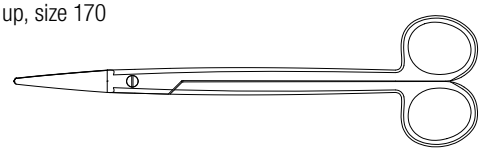
WT543011 Scissors, acc. to Perwitschky, sharp/sharp, for salivary duct, size 100



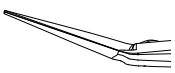
Tonsil scissors, acc. to Prince
17 cm total length



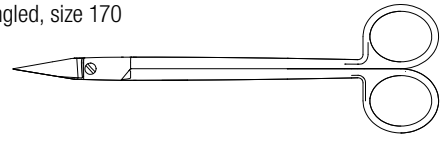
WT541600 Tonsil scissors, acc. to Prince, curved up, size 170



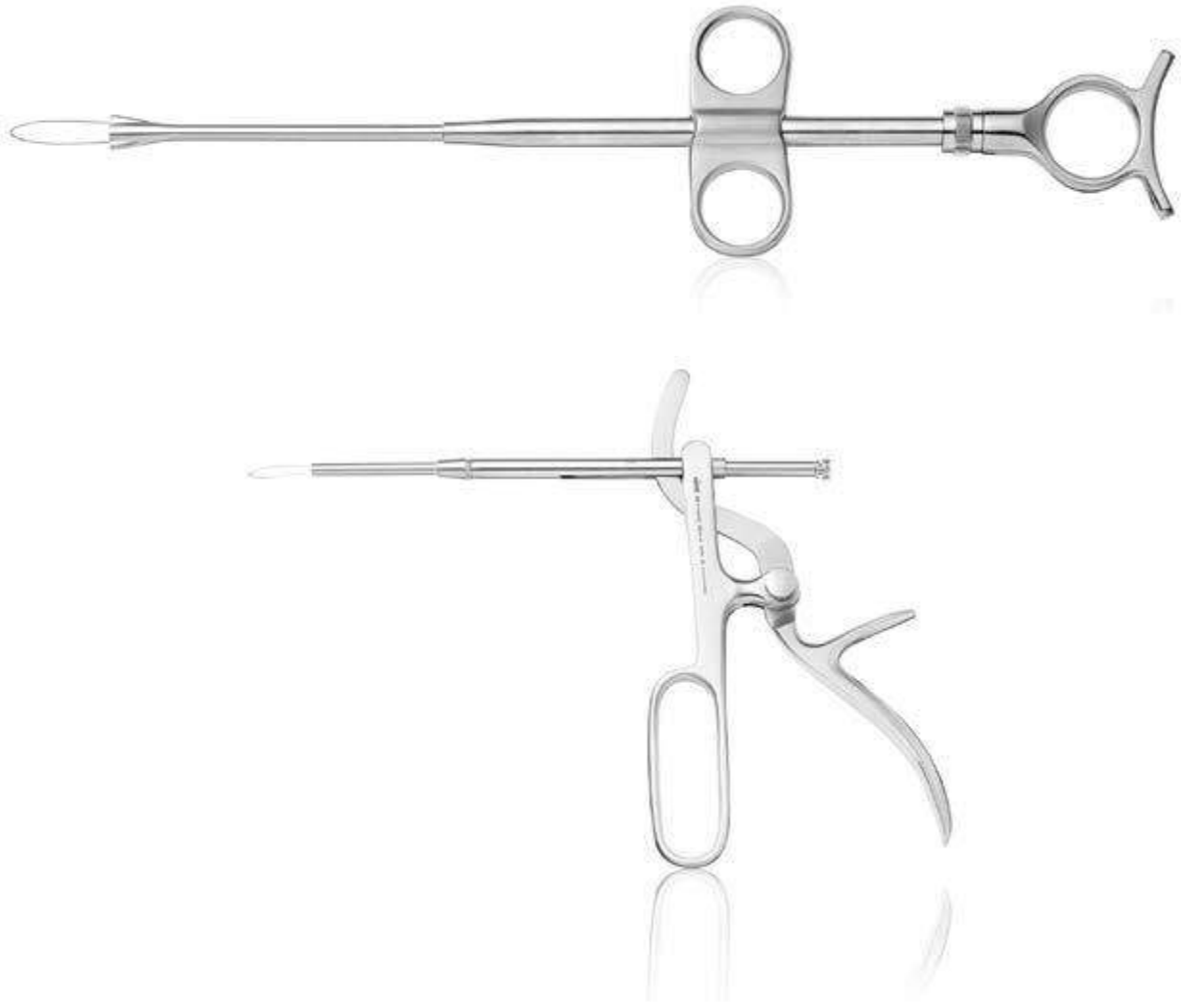
Tonsil scissors, acc. to Dean
17 cm total length



WT541700 Tonsil scissors, acc. to Dean, serrated, angled, size 170



Tonsil Snares



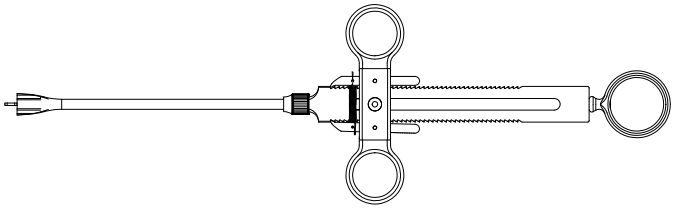
- Different types of tonsil snares
- Snare wires formed and closed
- Snare wires open and coils

EXPLORENT

Snares

Snare, acc. to Bruenings
for closed tonsil wire, 29 cm total length

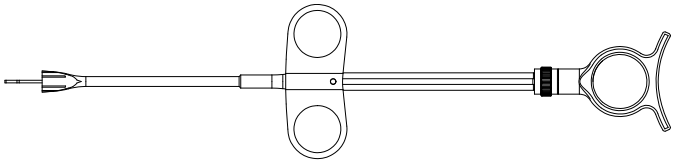
WT546000 Snare, acc. to Bruenings, size 28



WT546001 Wire, for snare acc. to Bruenings (not shown)
WT546002 Spare screw, for tonsil snare acc. to Bruenings (not shown)

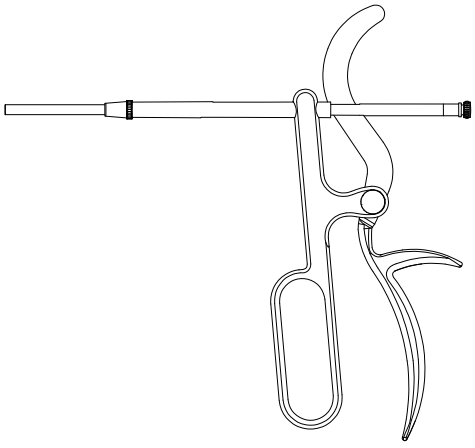
Snare, acc. to Eves
with Bruenings-tip, 29 cm total length,
for closed and open tonsil wire loops

WT546100 Snare, acc. to Eves,
guide tube acc. to Bruenings, size 29

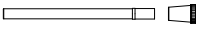


Snare, acc. to Tyding
with straight tip, for open tonsil wire, detachable

WT546300 Snare, acc. to Tyding, guide tube, straight, size 270



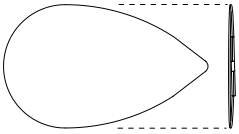
WT546302 Spare attachment, straight, for tonsil snare



Snare Wires

Wire loop
stainless steel, closed,
0.4 mm Ø, 50 mm length, 100 pcs.

WT546200 Wire loop, closed, 100 pcs., size 0.4 x 50



Wire
open, with bended ends, 0.3 mm Ø, 12 pcs.,
cut and formed, standard size, 10 cm length

WT311000 Wire, for nasal snare, size 0.3 x 100, 12 pcs.



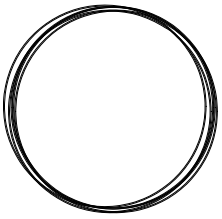
Wire
open, with bended ends, 0.3 mm Ø, 100 pcs.

WT311103 Wire, for nasal snare, size 0.3 x 100, 100 pcs.



Wire
0.4 mm Ø, coil of 10 m

WT311100 Wire, for nasal snare, size 0.4, coil



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Salivary Duct Instruments



- Sialography cannulas with very thin diameter and Luer-lock connectors
- Dilators for infants plus very delicate models, different sizes
- Probes for salivary and lacrimal duct, silver-plated, double-ended models, extra-delicate silver model and protection tube
- Scissors with ball end or pointed tips

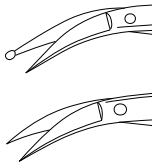
EXPLORENT

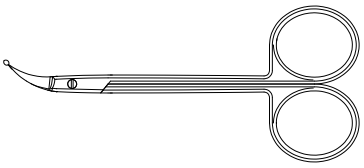
Scissors, acc. to Perwitschky

Scissors, acc. to Perwitschky
for salivary duct, 10 cm total length

WT543010 Scissors, acc. to Perwitschky, for salivary duct, size 100

WT543011 Scissors, acc. to Perwitschky, sharp/sharp, for salivary duct, size 100





Dilators

Dilator, acc. to Ruedemann
for salivary duct, for infants, tip 0.5 mm, 8 cm total length

WT543300 Dilator, acc. to Ruedemann, for salivary duct, for children, size 0.5 x 80

Dilator, acc. to Wilde
4 mm diameter, 11 cm total length

WT543301 Dilator, acc. to Wilde, for salivary duct, size 1, 4 x 110



Probes

Probe, acc. to Bowman
silver plated,
total length 13 cm

WT543430 Probe, acc. to Bowman, cylindrical, silver plated, size 000/0000

WT543400 Probe, acc. to Bowman, cylindrical, silver plated, size 00/0

WT543401 Probe, acc. to Bowman, cylindrical, silver plated, size 0/1

WT543402 Probe, acc. to Bowman, cylindrical, silver plated, size 1/2

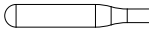
WT543404 Probe, acc. to Bowman, cylindrical, silver plated, size 3/4

WT543406 Probe, acc. to Bowman, cylindrical, silver plated, size 5/6

WT543408 Probe, acc. to Bowman, cylindrical, silver plated, size 7/8



Probe, acc. to Seiffert
extra delicate, silver, 18 cm total length



WT543518 Probe, acc. to Seiffert, silver, size 180



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Lacrimal Duct Instruments

Basic Set



- Lacrimal duct basic set, selection of recommended instruments
- Complementary sets for “Septum” and “Paranasal Sinuses”

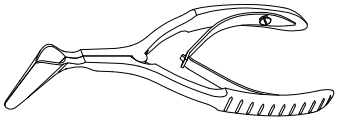
EXPLORENT

Basic Set

Nasal speculum, acc. to Hartmann
14 cm total length, 34 mm blade length



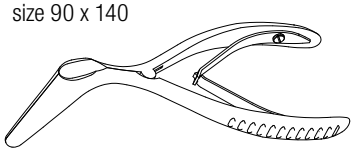
WT143001 Nasal speculum, acc. to Hartmann,
for adults, size 33.5 x 135

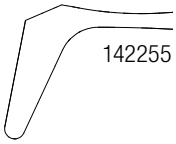


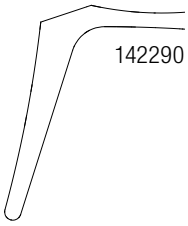
Nasal speculum, acc. to Killian-Struycken
14 cm total length, various blade length (mm)

WT142255 Nasal speculum, acc. to Killian-Struycken,
size 55 x 140

WT142290 Nasal speculum, acc. to Killian-Struycken,
size 90 x 140



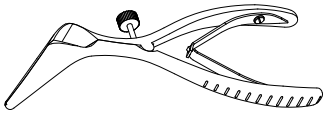




Nasal speculum, acc. to Cottle
13,5 cm total length, with set screw,
55 mm blade length



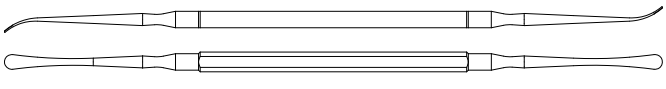
WT400002 Nasal speculum, acc. to Cottle, size 50 x 135



Elevator, acc. to Freer
20 cm, double-ended, 20 cm total length,
USA model, sharp/blunt, 4.5 mm width



WT315000 Elevator, acc. to Freer,
double-ended, american type, size 200



Basic Set (cont.)

Probe, acc. to Bowman
silver plated,
total length 13 cm

WT543430 Probe, acc. to Bowman, cylindrical,
silver plated, size 000/0000

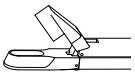
WT543400 Probe, acc. to Bowman, cylindrical,
silver plated, size 00/0

WT543402 Probe, acc. to Bowman, cylindrical,
silver plated, size 1/2

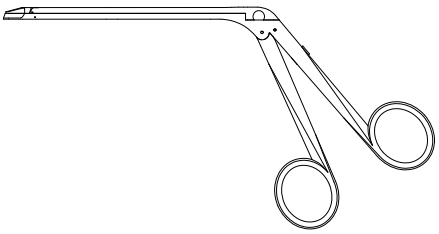
WT543404 Probe, acc. to Bowman, cylindrical,
silver plated, size 3/4



Punch forceps, acc. to Moriyama
through-cutting, 4.5 mm jaw width,
10.5 cm working length



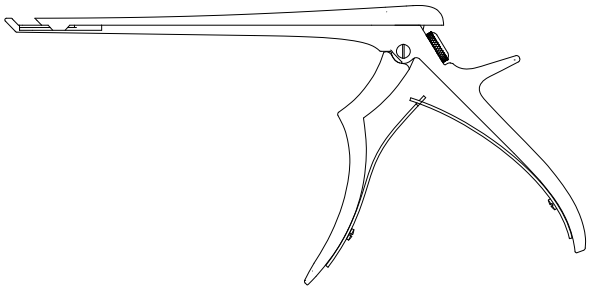
WT326810 Punch forceps, acc. to Moriyama, through-cutting,
straight, size 105



Punch forceps, acc. to Kerrison
bite 2 mm, 40° upbiting,
18 cm working length, detachable



WT512922 Punch forceps, acc. to Kerrison, 40 cutting upward,
detachable, size 2.0 x 180

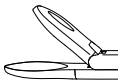


Lacrimal Duct Instruments

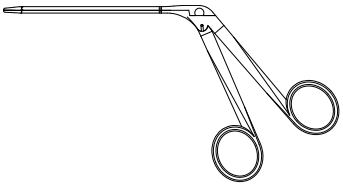
Basic Set (cont.)

Basic Set (cont.)

Nasal forceps, acc. to Blakesley
4.0 mm jaws width, 11.5 cm working length

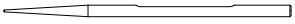


WT330002 Nasal forceps, acc. to Blakesley, straight, size 4.0 x 115
WT330102 Nasal forceps, acc. to Blakesley, curved up 45, size 4.0 x 115



Dilator, acc. to Ruedemann
for infants, tip 0.5 mm, 8 cm total length

WT543300 Dilator, acc. to Ruedemann, for salivary duct, for children, size 0.5 x 80



Suction tube
angled, Luer-lock, 10.5 cm working length, various diameter sizes (mm)

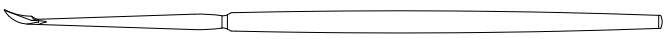
WT136530 Suction tube, curved, with Luer conus, size 3.0 x 105
WT136540 Suction tube, curved, with Luer conus, size 4.0 x 105



Sickle knife
pointed, 19 cm total length, double cutting



WT518301 Sickle knife, pointed, size 190

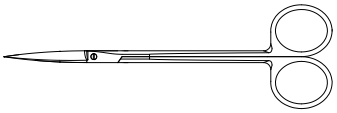


Complementary Set "Septum"

Scissors, acc. to Joseph
14 cm total length, curved



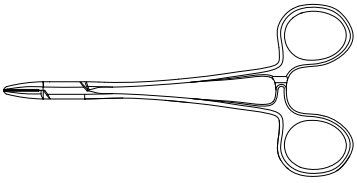
WT276614 Scissors, acc. to Joseph, curved up, size 140



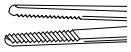
Needle holder, acc. to Crile-Wood
straight, 15 cm total length, tungsten carbide



WT213015 Needle holder, acc. to Crile-Wood, with tungsten carbide, size 150



Thumb forceps
straight, serrated, 14.5 cm total length



WT209014 Thumb forceps, straight, size 145



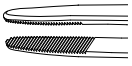
Thumb forceps
1 x 2 teeth, straight, 14.5 cm total length



WT209114 Thumb forceps, for dissection, straight, size 145



Thumb forceps, acc. to Lucae
bayonet, serrated, 16 cm total length, slender



WT132316 Thumb forceps, acc. to Lucae, bayonet shaped, size 160

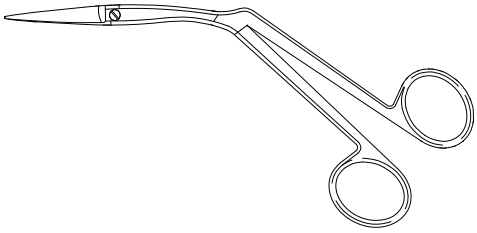


Complementary Set “Septum” (cont.)

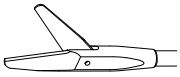
Nasal scissors, acc. to Heymann
smooth blades, straight,
9.5 cm working length



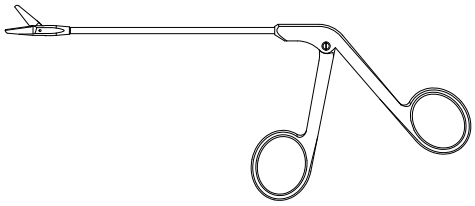
WT326000 Nasal scissors, acc. to Heymann, standard, size 95



Nasal scissors
serrated blades, straight,
13 cm working length

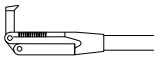


WT326200 Nasal scissors, serrated, straight, size 130

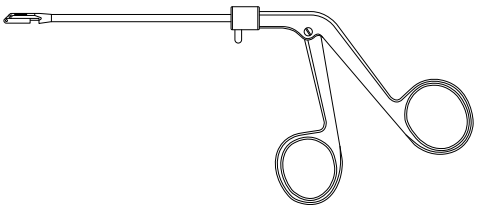


Complementary Set “Paranasal Sinuses”

Punch forceps
finger post facilitates 360° rotation,
10 cm working length,
adult size: 2.5 mm cutting width



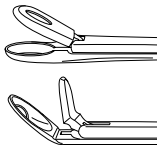
WT335025 Punch forceps, rotatable, backward cutting,
size 2.5 x 100

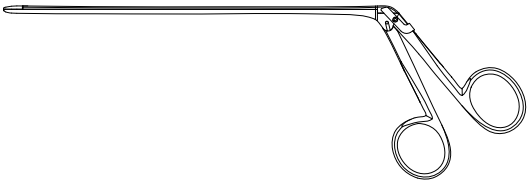


Nasal forceps, acc. to Draf
very delicate, 2.4 mm width, straight,
16 cm working length

WT338416 Nasal forceps, acc. to Draf,
straight, size 2.4 x 160

WT338516 Nasal forceps, acc. to Draf,
curved up, size 2.4 x 160





Cannula, acc. to Eicken
short curved, 14.5 cm working length,
various diameters (mm)

WT149612 Cannula, acc. to Eicken, with Luer-lock,
short curved, size 2.5 x 145

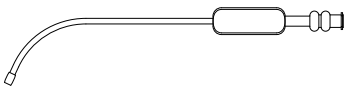
WT149613 Cannula, acc. to Eicken, with Luer-lock,
short curved, size 3 x 145



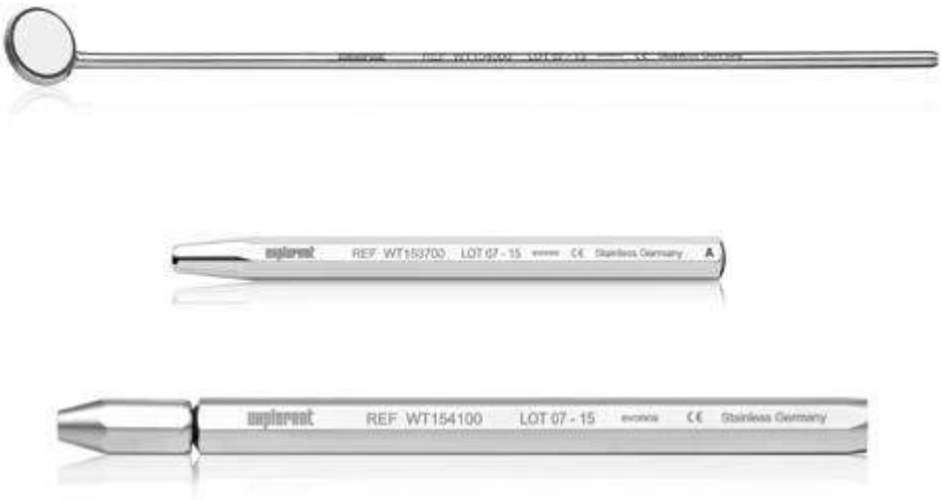
Cannula, acc. to Eicken
long curved, various diameters (mm)

WT149602 Cannula, acc. to Eicken, with Luer-lock,
long curved, size 2.5 x 145

WT149603 Cannula, acc. to Eicken, with Luer-lock,
long curved, size 3 x 145



Laryngeal Mirrors

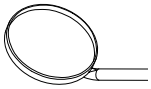


- Mirrors with fixed handle
- Detachable models with separate handles
- Different-sized mirrors

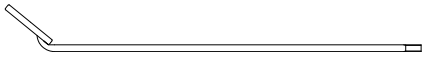
EXPLORENT

Laryngeal Mirrors with Unscrewable Handle

Mirror
stainless steel, autoclavable,
shaft with thread, for handle WT153700,
various diameters (mm), 12.5 cm total length

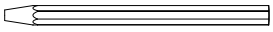


WT153620	Mirror, with thread, without handle, size 8
WT153600	Mirror, with thread, without handle, size 10
WT153601	Mirror, with thread, without handle, size 12
WT153602	Mirror, with thread, without handle, size 14
WT153603	Mirror, with thread, without handle, size 16
WT153604	Mirror, with thread, without handle, size 18
WT153605	Mirror, with thread, without handle, size 20
WT153606	Mirror, with thread, without handle, size 22
WT153607	Mirror, with thread, without handle, size 24
WT153608	Mirror, with thread, without handle, size 26
WT153609	Mirror, with thread, without handle, size 28
WT153610	Mirror, with thread, without handle, size 30



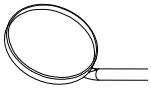
Handle
for WT153600 – WT153620, 7.5 cm length

WT153700	Handle, hexagonal, for mirror with thread, size 75



Laryngeal Mirrors with Fixed Handle

Mirror
stainless steel, autoclavable,
with fixed handle, 18 cm total length,
various diameters (mm)

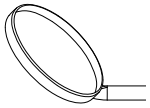


WT153920	Mirror, with handle, size 8
WT153900	Mirror, with handle, size 10
WT153901	Mirror, with handle, size 12
WT153902	Mirror, with handle, size 14
WT153903	Mirror, with handle, size 16
WT153904	Mirror, with handle, size 18
WT153905	Mirror, with handle, size 20
WT153906	Mirror, with handle, size 22
WT153907	Mirror, with handle, size 24
WT153908	Mirror, with handle, size 26
WT153909	Mirror, with handle, size 28
WT153910	Mirror, with handle, size 30



Standard Laryngeal Mirrors

Mirror
stainless steel, autoclavable,
shaft without thread, 12.5 cm total length,
various diameters (mm)



WT154020	Mirror, without thread, without handle, size 8
WT154000	Mirror, without thread, without handle, size 10
WT154001	Mirror, without thread, without handle, size 12
WT154002	Mirror, without thread, without handle, size 14
WT154003	Mirror, without thread, without handle, size 16
WT154004	Mirror, without thread, without handle, size 18
WT154005	Mirror, without thread, without handle, size 20
WT154006	Mirror, without thread, without handle, size 22
WT154007	Mirror, without thread, without handle, size 24
WT154008	Mirror, without thread, without handle, size 26
WT154009	Mirror, without thread, without handle, size 28
WT154010	Mirror, without thread, without handle, size 30



Handle
for laryngeal mirrors without thread,
with set screw, 10.5 cm total length

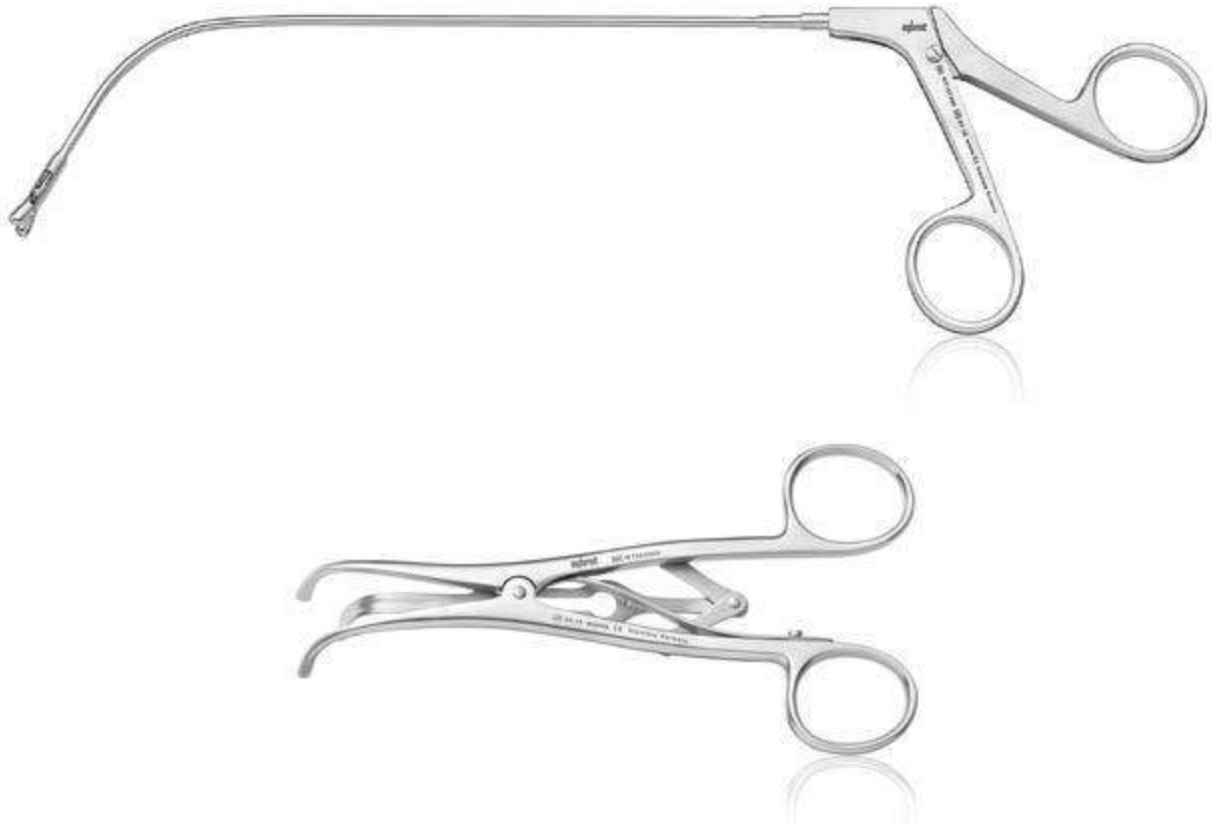
WT154100	Handle, for Mirror without thread, size 110



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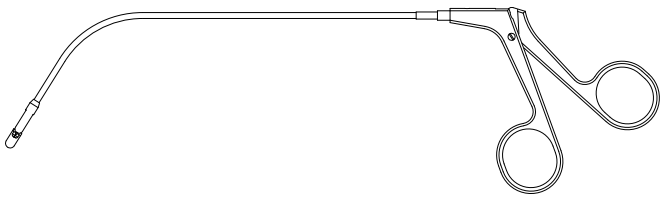
Laryngeal Forceps, Tracheal Dilators



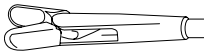
- Standard laryngeal forceps:
  Double-action jaws, open vertically or horizontally, alligator forceps with serrated jaws for removal of foreign bodies, round and oval cupped jaws
- Tracheal dilators:
  Twin-bladed and three-bladed models

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Laryngeal Forceps



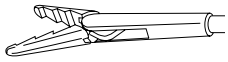
Laryngeal forceps
tube shaft,
with double-action jaws,
oval cupped spoon, 19 cm working length



WT157201 Laryngeal forceps, for polyps,
oval spoons, vertical opening, size 190

WT157202 Laryngeal forceps, for polyps,
oval spoons, horizontal opening, size 190

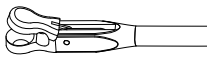
Laryngeal forceps
tube shaft,
with double-action jaws,
for foreign bodies, serrated, 19 cm working length



WT157203 Laryngeal forceps, alligator type,
for foreign bodies, vertical opening, size 190

WT157204 Laryngeal forceps, alligator type,
for foreign bodies, horizontal opening, size 190

Laryngeal forceps
tube shaft,
with round cupped jaws 4 mm Ø,
17 cm working length



WT157400 Laryngeal forceps, for biopsy,
with cupped jaws, straight, size 4 x 17

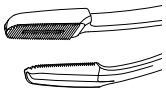
WT157401 Laryngeal forceps, for biopsy,
with cupped jaws, upcurved, size 4 x 17

WT157402 Laryngeal forceps, for biopsy,
with cupped jaws, curved right, size 4 x 17

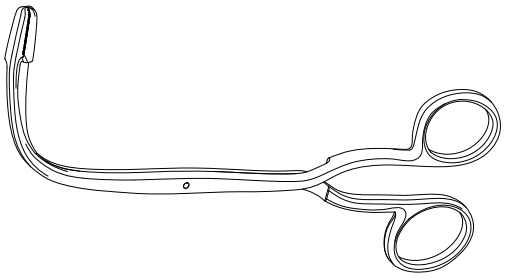
WT157403 Laryngeal forceps, for biopsy,
with cupped jaws, curved left, size 4 x 17

Laryngeal Forceps (cont.)

Laryngeal forceps, acc. to Fränkel
19 cm total length

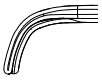


WT158000 Laryngeal forceps, acc. to Fränkel,
for polyps, size 190

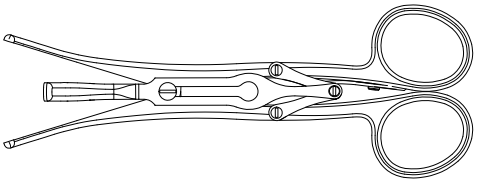


Dilator

Dilator, acc. to Laborde
three-bladed, 14 cm total length,
3.5 cm opening

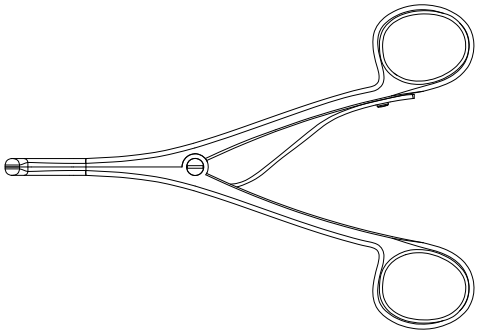


WT563000 Dilator, acc. to Laborde, three blades, size 140



Dilator, acc. to Trousseau,
twin-bladed, 14 cm total length

WT563100 Dilator, acc. to Trousseau, two blades, size 140



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Laryngology

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Laser Protectors 425

EXPLORENT INSTRUMENTS

Manufacturer
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany

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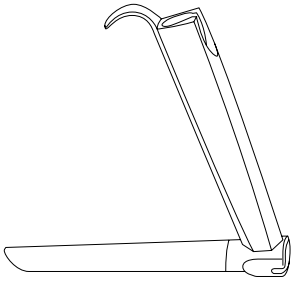
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Operating Laryngoscopes

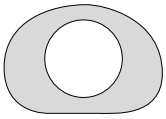


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Operating Laryngoscopes

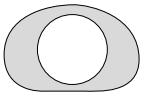


Operation laryngoscope
18 cm working length, for adults



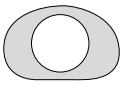
WT630001 Operation laryngoscope, large, size 180

Operation laryngoscope
18 cm working length,
most commonly used laryngoscope



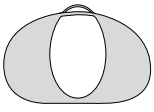
WT630002 Operation laryngoscope, medium, size 180
WT000872 Operation laryngoscope, matt finish, medium, size 180

Operation laryngoscope
18 cm working length,
for difficult anatomical circumstances



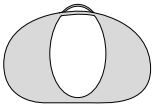
WT630003 Operation laryngoscope, small, size 180
WT000873 Operation laryngoscope, matt finish, small, size 180

Operation laryngoscope
18 cm working length,
anterior commisure



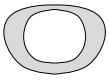
WT630004 Operation laryngoscope,
for anterior commissure, size 180

Operation laryngoscope
22 cm working length, for long neck



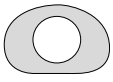
WT630005 Operation laryngoscope, size 220
WT000874 Operation laryngoscope, matt finish, size 220

Operation laryngoscope
15 cm working length, for children



WT630006 Operation laryngoscope, for children, size 150
WT000875 Operation laryngoscope, matt finish,
for children, size 150
WT000876 Operation laryngoscope, matt finish,
for children, size 130

Operation laryngoscope
13 cm working length, for children



WT630007 Operation laryngoscope, for children, size 130

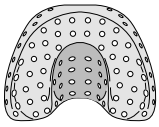
Fibre Optic Light Carriers



Fibre optic light carrier
for use with lanryngoscopes

WT630010 Light carrier, fiber optic,
for operation laryngoscopes WT630001-04
WT000877 Light carrier, fiber optic, matt,
for operation laryngoscopes WT630001-05
WT630014 Light carrier, fiber optic,
for operation laryngoscope WT630005
WT630011 Light carrier, fiber optic,
for operation laryngoscopes WT630006-07

Teeth Protectors



Teeth protector
metal, various sizes,
size 0 for children

WT996100 Teeth protector, metal, without handle, size 0
WT996101 Teeth protector, metal, without handle, size 1
WT996102 Teeth protector, metal, without handle, size 2
WT996103 Teeth protector, metal, without handle, size 3

Suction Tubes



Suction tube
for smoke evacuation,
working lengths 12 and 15 cm

WT630110 Suction tube, for smoke evacuation,
for laryngoscopes WT630001-05, size 150
WT630111 Suction tube, for smoke evacuation,
for laryngoscopes WT630006-07, size 120

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Chest Supports



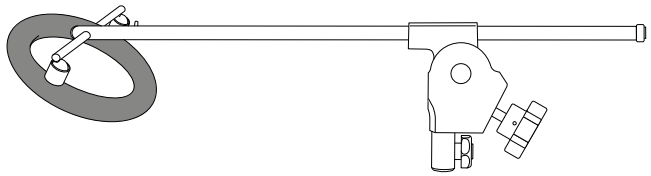
- Models for adults and children
- Laryngoscope holder
- Models with rubber ring for soft brace

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Chest Supports

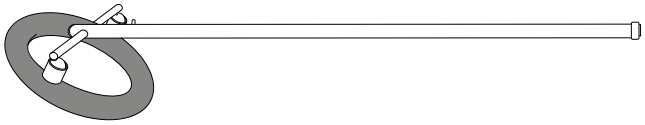
Laryngoscope holder and chest support
with rod for adults, with rod fixation screw,
for use with the laryngoscopes,
9.5 cm diameter of ring, rod length 34 cm

WT630400 Chest support, 340 mm support rod, 95 mm ring



WT630500 Support rod, 240 mm, 95 mm ring

- for children



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Flexible Tension Arm System



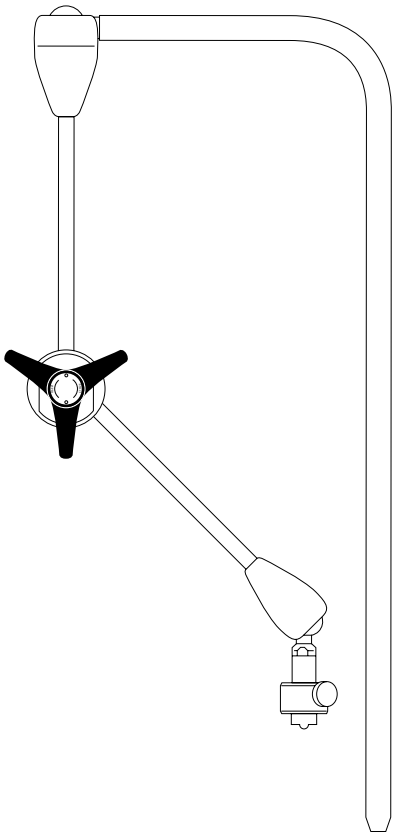
- Fast and stable fixing
- Only one central set screw
- Powerful holding force
- Fully autoclavable
- Universally applicable

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Arm System

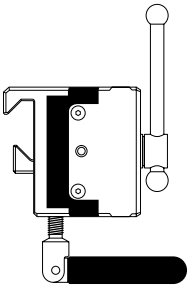
Articulated arm
18.5” x 6.7” with lock

WT218700 Articulated arm, L shaped stand,
470 x 170 mm



Clamp socket
for hinged arm support,
electrical isolated,
up to 4.5 KV AC for Rail 25/35 x 8/10 mm,
1/1.4 x 0.3/0.4”

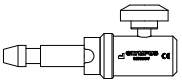
WT218705 Clamp socket, for articulated arm



Arm System (cont.)

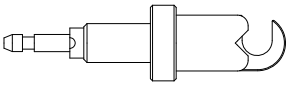
Adapter
for retractor/laryngoscope

WT218711 Adapter, for basic frame



Adapter
for retractor/optic/mouth gag

WT218720 Adapter, for retractor, endoscope or mouth gag



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Rotatable Laryngeal Hand Instruments



- Full 360° rotation
- For endolaryngeal microsurgery
- Models with double-action jaws

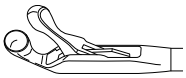
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Rotatable Laryngeal Forceps



Laryngeal forceps
round cupped jaws,
2 mm diameter,
working length 22 cm

WT632203 Laryngeal forceps,
cupped jaws, rotatable,
double-action, curved, size 220



Laryngeal forceps
serrated jaws,
double-action jaws, curved,
working length 22 cm

WT632206 Laryngeal forceps,
alligator type, rotatable,
double-action, curved, size 220

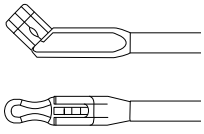


Laryngeal forceps
triangular jaws,
straight, working length 22 cm

WT632207 Laryngeal forceps,
triangular jaws, rotatable,
double action, size 220



Laryngeal forceps
cupped jaws,
working length 22 cm



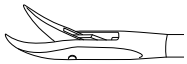
WT000847 Laryngeal forceps,
cupped jaws, rotatable,
vertical opening, curved,
size 2 x 22

Rotatable Laryngeal Scissors



Laryngeal scissors
curved, working length 22 cm

WT632210 Laryngeal scissors, micro,
rotatable, size 220



Laryngeal Forceps





- For endolaryngeal microsurgery, for adults and children
- Single and double-action jaws, cupped jaws model with malleable distal end
- Straight and curved jaws, conical shaft for high stability and optimal view
- Models with 10° upcurved distal end, facilitating access to the anterior commissure

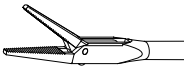
EXPLORENT

Laryngeal Forceps for Adults



Laryngeal forceps
serrated, 23 cm working length

WT632005 Laryngeal forceps, alligator type, serrated, straight, size 2 x 23



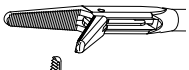
WT632006 Laryngeal forceps, alligator type, serrated, turned to the right, size 230



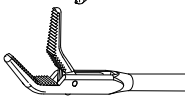
WT632007 Laryngeal forceps, alligator type, serrated, turned to the left, size 230



WT632215 Laryngeal forceps, alligator type, horizontal opening, straight, size 230



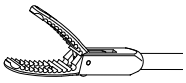
WT632054 Laryngeal forceps, alligator type, serrated, curved up, size 230



WT632154 Laryngeal forceps, alligator type, horizontal opening, curved up, size 230

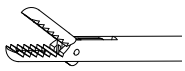
Grasping forceps
serrated, 23 cm working length

WT632032 Grasping forceps, serrated, straight, size 230



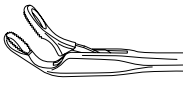
Grasping forceps
alligator jaws, 23 cm working length

WT632034 Grasping forceps, alligator jaws, size 230

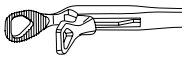


Laryngeal forceps
triangular jaws, 23 cm working length

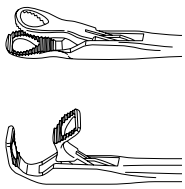
WT632055 Laryngeal forceps, triangular jaws, opening to the right, curved up, size 230



WT632056 Laryngeal forceps, triangular jaws, opening to the left, curved up, size 230



WT632058 Laryngeal forceps, triangular shaped jaws, serrated, straight, size 230

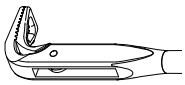


WT632059 Laryngeal forceps, triangular shaped jaws, serrated, curved up, size 230

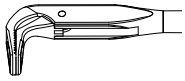
Laryngeal Forceps for Adults (2)

Laryngeal forceps
triangular jaws, 23 cm working length

WT632068 Laryngeal forceps, acc. to Arnold, triangular shaped jaws, curved up to right, size 230

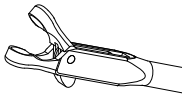


WT632069 Laryngeal forceps, acc. to Arnold, triangular shaped jaws, curved up to left, size 230

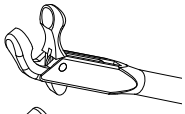


Laryngeal forceps
round cupped jaws, 2 mm diameter, 23 cm working length, 10° upcurved

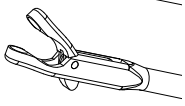
WT632101 Laryngeal forceps, cupped jaws, tip curved up, size 2 x 23



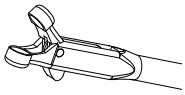
WT632102 Laryngeal forceps, cupped jaws, tip curved up, straight, size 2 x 23



WT632103 Laryngeal forceps, cupped jaws, tip curved up, curved right, size 2 x 23



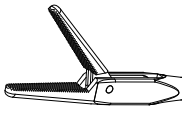
WT632104 Laryngeal forceps, cupped jaws, tip curved up, curved left, size 2 x 23

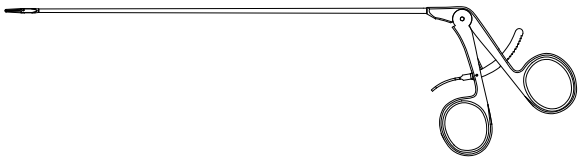


Laryngeal Forceps With Ratchet

Artery forceps
with ratchet, serrated, straight, 18 cm working length

WT632105 Artery forceps, serrated, with ratchet, straight, size 180



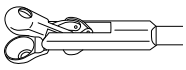


Laryngeal Forceps
(cont.)

Cutting Forceps, Double-Action Jaws

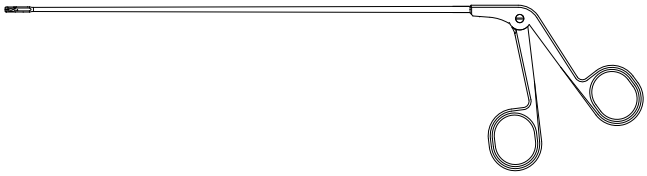
Cutting forceps
round cupped jaws 5 mm diameter,
double-action, straight, 23 cm working length

WT632046 Laryngeal forceps, cupped jaws, heavy design, straight, size 230



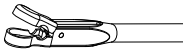


Cutting Forceps

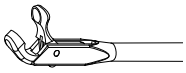


Forceps
2 mm cupped jaws, standard,
23 cm working length

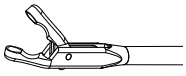
WT632001 Laryngeal forceps, cupped jaws, straight, size 2 x 23



WT632002 Laryngeal forceps, cupped jaws, curved up, size 2 x 23



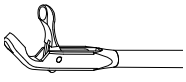
WT632003 Laryngeal forceps, cupped jaws, curved to right, size 2 x 23



WT632004 Laryngeal forceps, cupped jaws, curved to left, size 2 x 23

WT632050 Laryngeal forceps, cupped jaws, curved up to right, size 2 x 23 (not shown)

WT632051 Laryngeal forceps, cupped jaws, curved up to left, size 2 x 23



WT632052 Laryngeal forceps, cupped jaws, horizontal opening, curved up right, size 2 x 23

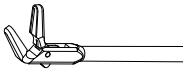
WT632053 Laryngeal forceps, cupped jaws, horizontal opening, curved up left, size 2 x 23



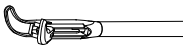
Cutting Forceps (2)

Cutting forceps
long oval cupped jaws, 23 cm working length

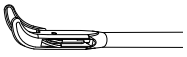
WT632150 Laryngeal forceps, oval cups, curved up, opening upward, size 2 x 23



WT632151 Laryngeal forceps, oval cups, curved up, opening to the right, size 230

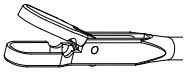


WT632152 Laryngeal forceps, oval cups, curved up, opening to the left, size 230



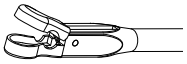
Cutting forceps
oval cupped jaws 3 x 5 mm,
heavy, conical shaft,
23 cm working length, straight

WT632040 Laryngeal forceps, oval cups, for biopsies, straight, size 230

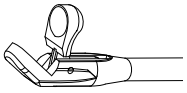


Cutting forceps
round cupped jaws 4 mm diameter,
heavy, conical shaft,
23 cm working length

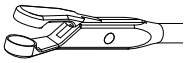
WT632041 Laryngeal forceps, cupped jaws, heavy design, straight, size 4 x 23



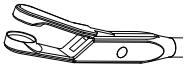
WT632042 Laryngeal forceps, cupped jaws, heavy design, curved up, size 4 x 23



WT632043 Laryngeal forceps, cupped jaws, heavy design, curved right, size 4 x 23



WT632044 Laryngeal forceps, cupped jaws, heavy design, curved left, size 4 x 23



Miniature Cutting Forceps



Miniature cutting forceps
cupped jaws 1 mm diameter,
very delicate, conical shaft,
23 cm working length

WT632060 Laryngeal forceps, cupped jaws, miniature, straight, size 1 x 23 

WT632061 Laryngeal forceps, cupped jaws, miniature, curved up, size 1 x 23 

WT632062 Laryngeal forceps, cupped jaws, miniature, curved right, size 1 x 23 

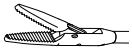
WT632063 Laryngeal forceps, cupped jaws, miniature, curved left, size 1 x 23 

WT632064 Laryngeal forceps, cupped jaws, miniature, curved up to right, size 1 x 23 

WT632065 Laryngeal forceps, cupped jaws, miniature, curved up to left, size 1 x 23 

Miniature Grasping Forceps

Miniature grasping forceps
very delicate, conical shaft,
serrated, 23 cm working length

WT632070 Laryngeal forceps, miniature, very delicate, serrated, straight, size 230 

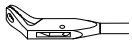
WT632071 Laryngeal forceps, miniature, very delicate, serrated, curved up, size 230 

WT632072 Laryngeal forceps, miniature, very delicate, serrated, curved right, size 230 

WT632073 Laryngeal forceps, miniature, very delicate, serrated, curved left, size 230 

Miniature grasping forceps
very delicate, conical shaft,
triangular jaws, 23 cm working length

WT632076 Laryngeal forceps, miniature, very delicate, triangular, curved right, size 230 

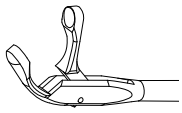
WT632077 Laryngeal forceps, miniature, very delicate, triangular, curved left, size 230 

Pediatric Laryngeal Forceps

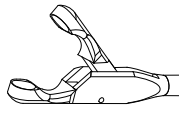


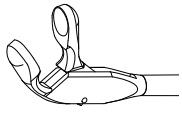
Forceps
cupped jaws, 2 mm diameter,
working length 18 cm

WT631902 Forceps, with cupped jaws, micro, for children, straight, size 2 x 18 

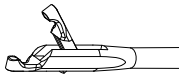
WT631903 Laryngeal forceps, cupped jaws, micro, for children, curved up, size 2 x 18 

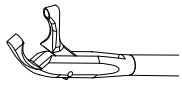
Forceps
cupped jaws, 3 mm diameter,
working length 18 cm

WT631904 Laryngeal forceps, cupped jaws, micro, for children, straight, size 3 x 18 

WT631905 Laryngeal forceps, cupped jaws, micro, for children, curved up, size 3 x 18 

Forceps
cupped jaws, 1 mm diameter,
working length 18 cm

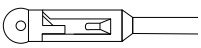
WT631906 Laryngeal forceps, cupped jaws, micro, for children, straight, size 1 x 18 

WT631907 Laryngeal forceps, cupped jaws, micro, for children, curved up, size 1 x 18 

Forceps
serrated, straight, working length 18 cm

WT631910 Laryngeal forceps, cupped jaws, micro, for children, straight, size 180 

Laryngeal forceps
cupped jaws, working length 18 cm

WT631930 Laryngeal forceps, cupped jaws, for children, horizontal opening, size 180 

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Laryngeal Scissors



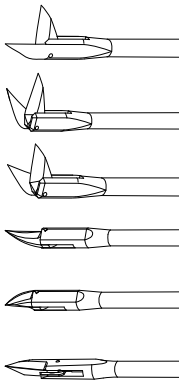
- For endolaryngeal microsurgery, for adults and children
- Straight and curved blades
- Models with 10° upcurved distal end for ideal entrance in the anterior commissure

Laryngeal Scissors for Adults



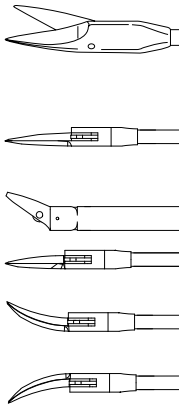
Laryngeal scissors
standard model, conical shaft,
23 cm working length

WT632008	Laryngeal scissors, micro, straight, size 230
WT632009	Laryngeal scissors, micro, curved up, size 230
WT632115	Laryngeal scissors, micro, curved up 15, size 230
WT632010	Laryngeal scissors, micro, curved to right, size 230
WT632011	Laryngeal scissors, micro, curved to left, size 230
WT632057	Laryngeal scissors, micro, horizontal cutting, straight, size 230



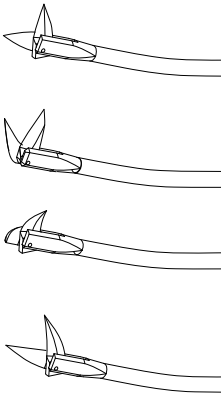
Miniature scissors
very delicate, conical shaft,
23 cm working length

WT632080	Laryngeal scissors, miniature, straight, size 230
WT632081	Laryngeal scissors, miniature, curved up 45, size 230
WT632082	Laryngeal scissors, miniature, curved to right, size 230
WT632083	Laryngeal scissors, miniature, curved to left, size 230



Scissors
23 cm working length

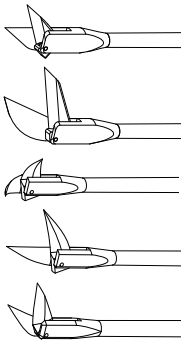
WT632108	Laryngeal scissors, sheath curved up, straight, size 230
WT632109	Laryngeal scissors, sheath curved up, curved up 45, size 230
WT632110	Laryngeal scissors, sheath curved up, curved to right, size 230
WT632111	Laryngeal scissors, sheath curved up, curved to left, size 230



Pediatric Laryngeal Scissors

Laryngeal scissors
working length 18 cm

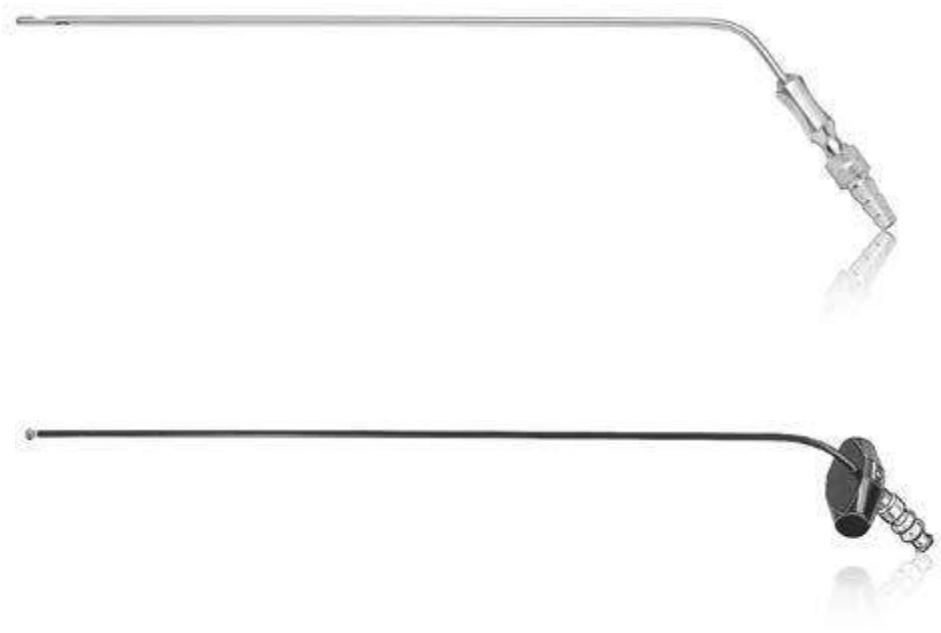
WT631920	Laryngeal scissors, micro, straight, size 180
WT631921	Laryngeal scissors, micro, curved up 45, size 180
WT631922	Laryngeal scissors, micro, curved to right, size 180
WT631923	Laryngeal scissors, micro, curved to left, size 180
WT632012	Laryngeal scissors, curved up, size 230



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Laryngeal Suction Tubes



- For endolaryngeal microsurgery
- Suction tubes with 10° upcurved distal end, tip ball-shaped, models for monopolar coagulation
- Aspiration tubes with closed, blunt end and smooth oval-shaped opening on each side
- Ebony-finished models for laser microsurgery

EXPLORENT

Laryngeal Suction Tubes

Suction tube
closed blunt end,
smooth oval shaped opening on each side,
working length 22 cm



WT632220 Suction tube, distal end closed,
with 2 oval holes, size 3.0 x 220

WT632221 Suction tube, distal end closed,
with 2 oval holes, size 4.0 x 220



Suction tube
25 cm working length, various diameter sizes (mm)

WT632026 Suction tube, with cut-off,
size 2.0 x 250

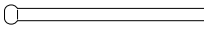
WT632027 Suction tube, with cut-off,
size 2.5 x 250

WT632028 Suction tube, with cut-off,
size 3.0 x 250

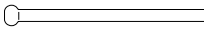


Suction tube
ball tip, various diameter sizes (mm)
working length 20 cm

WT631932 Suction tube, for children,
ball shaped tip, size 2.0 x 200



WT631933 Suction tube, for children,
ball shaped tip, size 3.0 x 200



Suction tube
with cut-off, 23 cm working length, 2.5 mm diameter

WT663923 Suction tube, with cut-off, size 2.5 x 230



Laryngeal Suction Tubes (cont.)

Suction tube
10° upcurved, ball tip,
25 cm working length,
various outer diameter sizes (mm)



WT632029 Suction tube, ball shaped tip,
distal end upcurved, size 2.0 x 250

WT632039 Suction tube, ball shaped tip,
distal end upcurved, size 4.0 x 250



Suction tube
with interruption, ebony finish,
23 cm working length, various diameter sizes (mm)

WT641025 Suction tube, black, with cut-off,
size 2.5 x 230

WT641030 Suction tube, black, with cut-off,
size 3.0 x 230



Suction tube
ebony finish, closed blunt end,
smooth oval shaped opening on each side,
22 cm working length, 3 mm diameter



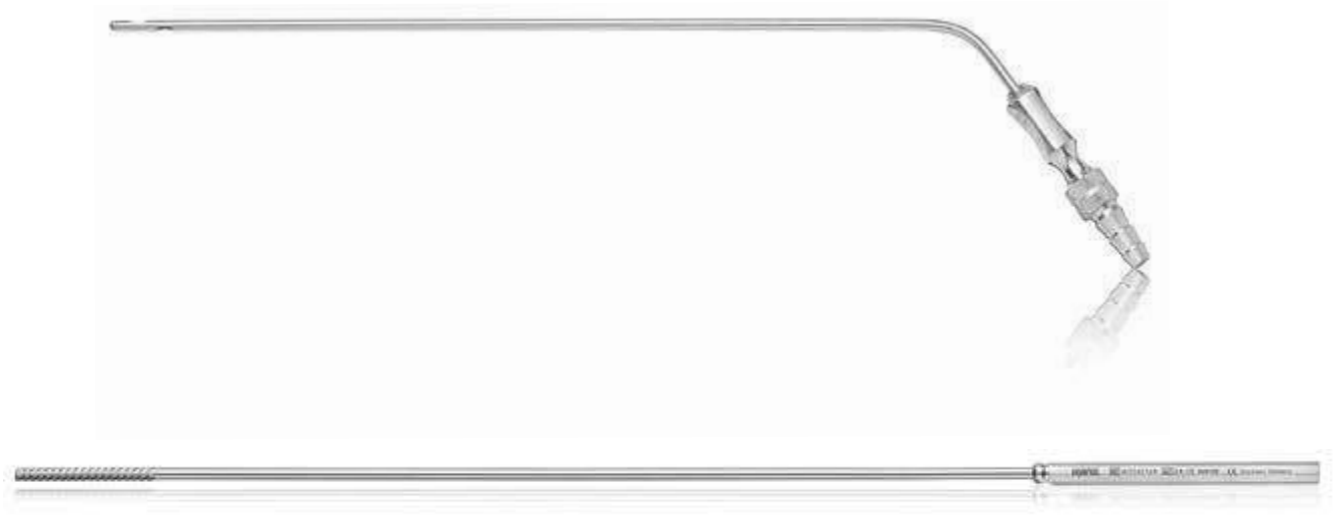
WT641033 Suction tube, black, distal tip closed,
with 2 oval holes, size 3.0 x 230



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Injection Needles, Cotton Applicator

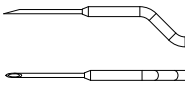


EXPLORENT

- Injection needles, with Luer-lock, curved and bayonet-shaped models
- Cotton applicators with twisted end, serrated

Laryngeal Injection Needles

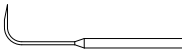
Injection cannula
Luer-lock, 23 cm working length



WT632130 Injection cannula, with Luer-lock, bayonet shaped, size 230



WT632131 Injection cannula, with Luer-lock, curved, size 230





Bouchayer injection cannula

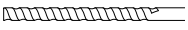
WT637740 Injection cannula, acc. to Bouchayer, with Luer-lock, bayonet shape, 25G



Laryngeal Cotton Applicator

Cotton applicator
twisted end, serrated,
28 cm length, 2.5 mm diameter

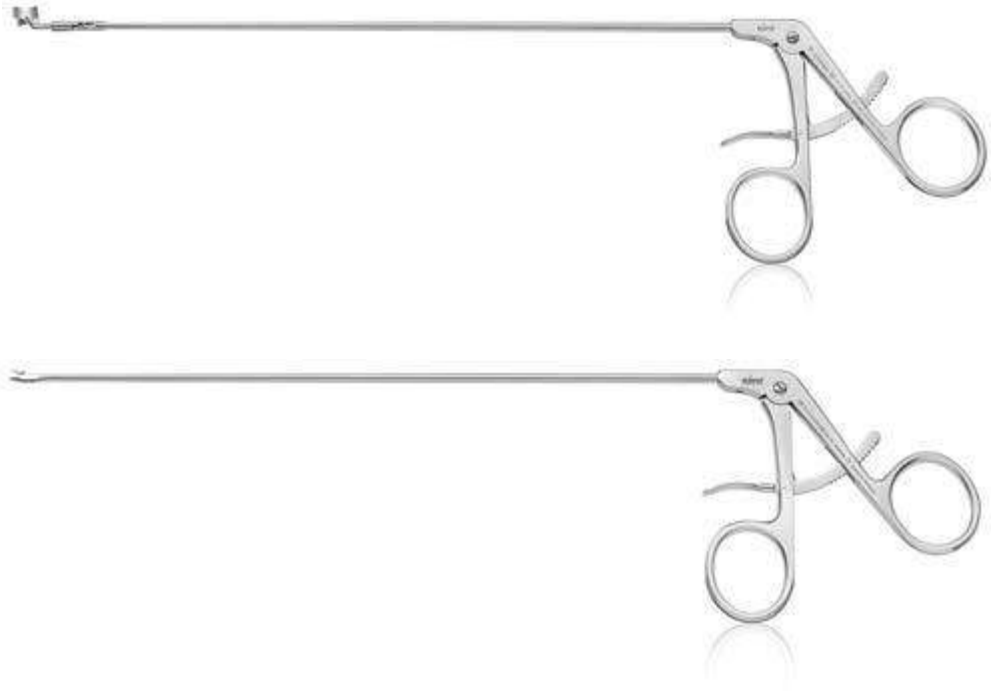
WT632128 Cotton applicator, twisted end, serrated, size 2.5 x 280



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Needle Holders and Vocal Cord Retractors

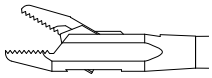


- Laryngeal needle holders: Conical and delicate models, with ratchet
- Vocal cord retractor: Atraumatic model, self-retaining, with ratchet

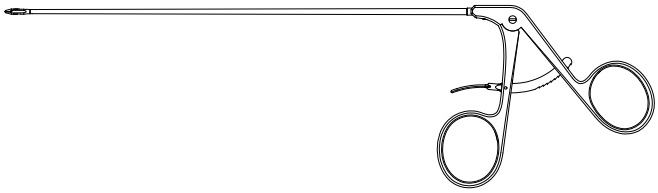
EXPLORENT

Laryngeal Needle Holders

Needle holder
with ratchet, conical shaft,
23 cm working length

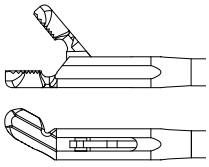


WT632036 Needle holder, with ratchet, size 230



Needle holder
for endo-laryngoscopy,
delicate, with teethed rounded jaws,
1.6 mm diameter, upcuved, self retaining,
with ratchet, 23 cm working length

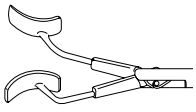
WT632037 Needle holder, with ratchet,
slender, with serrated jaws, size 230



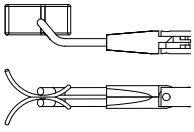


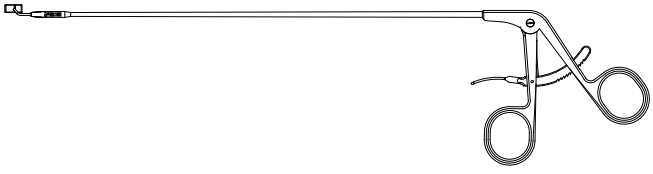
Vocal Cord Retractor

Atraumatic vocal cord retractor
self retaining, with ratchet,
24 cm working length



WT632038 Retractor, atraumatic,
for vocal cords,
self retaining, size 240





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Micro-Laryngeal Instruments



- For endolaryngeal microsurgery
- Individually rotatable
- Different type of handle

EXPLORENT

Laryngeal Knives

Round knife
2.5 mm diameter, angled 45°,
23 cm working length



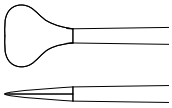
WT632013 Round knife, angled 45,
size 2.5 x 230

Round knife
round, vertical cutting,
23 cm working length



WT632014 Round knife, vertical cutting,
size 230

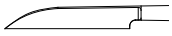
Knife
oval, straight,
23 cm working length



WT632015 Knife, oval, straight, size 230

Sickle knife
straight cutting,
23 cm working length

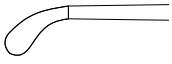
WT632016 Sickle knife, pointed, straight,
size 230



WT632116 Sickle knife, pointed, curved,
size 230



Knife
golf club shaped,
23 cm working length



WT632017 Knife, golfstick shape, size 230

Laryngeal knife
lancet shape, 33 cm working length

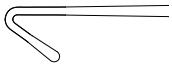


WT637570 Laryngeal knife, lancet shape,
with grip plate, size 330

Laryngeal Hooks

Hook
23 cm working length

WT632018 Hook, with ball end, blunt,
size 230



WT632019 Hook, sharp,
size 230



WT632024 Hook, with ball end,
angled 90, size 230

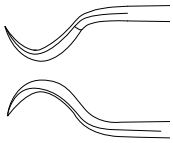


Laryngeal Needles

Needle
curved to right, 23 cm working length

WT632020 Needle, curved right,
size 230

WT632021 Needle, curved left, size 250

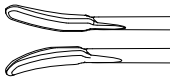


Laryngeal Elevator, Knot Tier

Elevator
22 cm working length

WT637560 Elevator, curved right, size 220

WT637561 Elevator, curved left, size 220



Elevator
23 cm working length

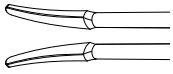
WT632022 Elevator, with suction channel,
size 230



WT632049 Elevator, curved, size 230

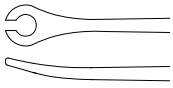
WT637710 Elevator, curved right 90, size 220

WT637711 Elevator, curved left 90, size 220



Knot pusher
23 cm working length

WT632023 Knot pusher, size 230

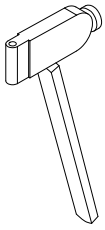


Handles for Micro-Laryngeal Instruments

Handle

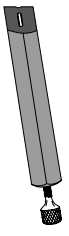
WT632025 Handle, for WT632013-WT632116

WT000805 Spare screw, for handle (not shown)



WT264100 Handle, acc. to Heermann,
black, for Heermann gouges/
micro larynx instruments

WT000804 Spare screw,
for handle acc. to Heermann (not shown)



WT840212 Handle, round,
for endoscopes, size 4.0



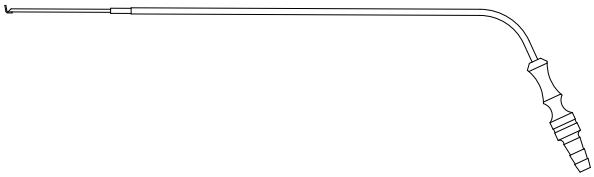
Laser Protectors



- For CO_2 micro-laryngeal laser surgery:
  protects lower regions of the mucous membrane from the laser beam
- Models with round, oval and corner-spaped protector tips, with smoke evacuation channel
- Ebony-finished tips and shaft

EXPLORENT

Laser Protectors

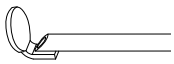


Laser protector
round, various diameters (mm),
with smoke evacuation channel,
23 cm working length

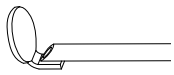
WT641003 Protector, with suction channel, black, round, curved upward, size 3.0 x 230



WT641004 Protector, with suction channel, black, round, curved upward, size 4.0 x 230

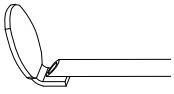


WT641005 Protector, with suction channel, black, round, curved upward, size 5.0 x 230

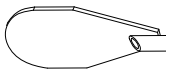


Laser protector
oval, straight,
with smoke evacuation channel,
various diameters (mm), 23 cm working length

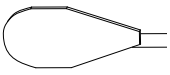
WT641007 Protector, with suction channel, black, oval, curved upward, size 5.0 x 230



WT641009 Protector, with suction channel, black, oval, suction hole left, size 6.0 x 230

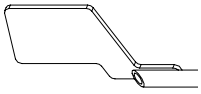


WT641010 Protector, with suction channel, black, oval, suction hole right, size 6.0 x 230

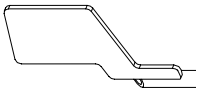


Laser protector
corner shaped, 6 mm width,
ebony finish,
with smoke evacuation channel, 23 cm working length

WT641011 Protector, with suction channel, black, angular, suction hole left, size 230



WT641012 Protector, with suction channel, black, angular, suction hole right, size 230

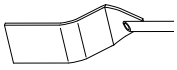


Laser Protectors (cont.)

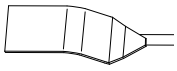


Laser protector
bayonet shaped, 7 mm width,
with smoke evacuation channel,
23 cm working length

WT641013 Protector, with suction channel, black, bayonet shaped, suction hole left, size 230

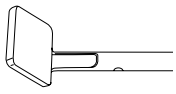


WT641014 Protector, with suction channel, black, bayonet shaped, suction hole right, size 230



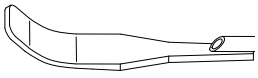
Laser protector
10 x 10 mm, upcurved,
for larynx and trachea,
with smoke evacuation channel,
26 cm working length

WT641016 Protector, with suction channel, black, curved upward, size 10 x 260



Laser protector
slightly upcurved, 7 mm width,
for hypopharyngeal diverticulum,
with smoke evacuation channel,
28 cm working length

WT641017 Protector, with suction channel, black, slightly curved upward, size 7.0 x 280



OLYMPUS

Your Vision, Our Future

General Hospital Instruments

Illumination 429

Scissors 431

Dissection Scissors 435

Dressing and Tissue Forceps 437

Needle Holders 441

Artery Forceps 443

Dressing, Towel and Sponge Forceps 445

Retractors 447

Basic Accessories 449

EXPLORENT INSTRUMENTS

Manufacturer
evonos GmbH & Co.KG
Stockacher Str. 134
78532 Tuttlingen, Germany

Distributor
Olympus Surgical Technologies Europe
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany



EXPLORENT

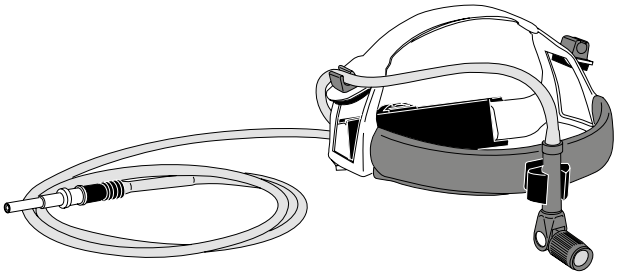
- Superspot head light
- Increased light transmission through latest fiber-optic technology; extremely light weight
- Stepless focusable lens for homogeneous light
- “Easy Click” by adjustable headband. Adjustable cable guide left, right and center

Superspot Head Light

Head light “superspot”

WT952305 Head light “superspot”, with light-guide cable, adapter for Olympus light sources

WT952300 Head light “superspot”, with light-guide cable, adapter for Storz light sources



WT952301 Spare head band, for head light

Technical Data

Dimensions

- Cable, length ..... 2300 mm
- Cable, diameter ..... 35 mm
- Weight, headband with optic ..... 170 g

Optic

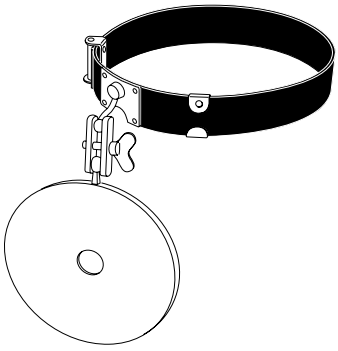
- Spot diameter ..... 10 – 80 mm
- Working distance ..... 250 – 300 mm

Ziegler Head Mirrors

Head mirror, acc. to Ziegler
with black plastic head band,
various mirror diameters (mm)

WT950000 Head mirror, acc. to Ziegler, with band, size 90

WT950001 Head mirror, acc. to Ziegler, with band, size 100



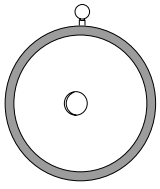
Spare parts
for Ziegler head mirrors

WT950100 Head band, plastic, black, with ball-joint



WT950300 Head mirror, acc. to Ziegler, size 90

WT950400 Head mirror, acc. to Ziegler, size 100



WT950301 Head mirror, acc. to Ziegler,
with adaption and joint
(not shown)

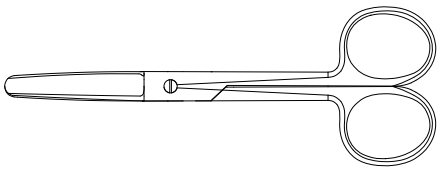
Scissors



- Standard and delicate models
- “Golden Ring” models with tungsten carbide cutting edges for high durability
- Models with serrated blades

EXPLORENT

Operating Scissors



Scissors
various total lengths (mm), various types

WT183001 Scissors, standard, blunt/blunt, straight, size 130



WT183002 Scissors, standard, sharp/blunt, straight, size 130



WT183102 Scissors, standard, sharp/blunt, straight, size 145

WT183003 Scissors, standard, sharp/sharp, straight, size 130



WT183103 Scissors, standard, sharp/sharp, straight, size 145

WT183202 Scissors, standard, sharp/blunt, curved up, size 130



WT183302 Scissors, standard, sharp/blunt, curved up, size 145



WT183212 Scissors, standard, with tungsten carbide, sharp/blunt, curved up, size 145

WT183401 Scissors, blunt/blunt, straight, size 130



WT183501 Scissors, blunt/blunt, straight, size 145

WT183402 Scissors, standard, sharp/blunt, curved up, delicate, size 130



WT183502 Scissors, sharp/blunt, straight, size 145

WT183403 Scissors, sharp/sharp, curved up, size 130

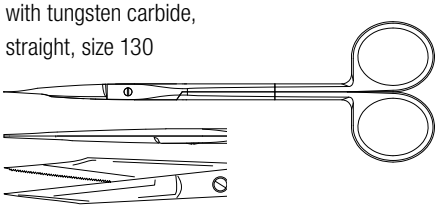


WT183503 Scissors, sharp/sharp, curved up, size 145

Ligature Scissors

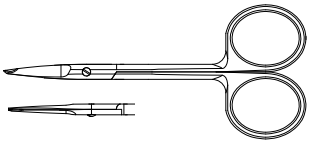
Scissors, acc. to Goldman-Fox
with tungsten carbide edges, serrated blade, one sharp blade, 13 cm total length, various sizes (mm)

WT268413 Scissors, acc. to Goldman-Fox, with tungsten carbide, straight, size 130

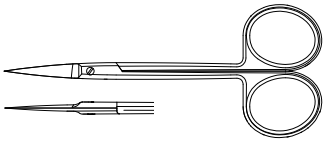


Ligature scissors, acc. to Spencer
various total lengths (mm)

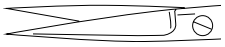
WT277809 Ligature scissors, acc. to Spencer, size 90
WT277900 Ligature scissors, acc. to Spencer, size 140



Iris Scissors



Iris scissors
delicate, 10.5 cm total length



WT277510 Iris scissors, sharp/sharp, straight, size 105
WT277610 Iris scissors, sharp/sharp, curved up, size 105

Iris scissors
straight, 11.5 cm total length



WT277712 Iris scissors, sharp/sharp, straight, size 115
WT277512 Iris scissors, sharp/sharp, with tungsten carbide, straight, size 115

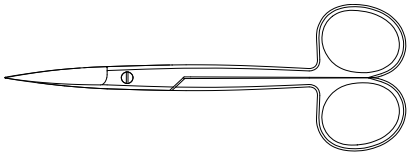
Scissors
curved, 11.5 cm total length



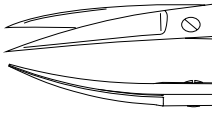
WT277812 Scissors, sharp/sharp, curved up, size 115
WT277612 Iris scissors, sharp/sharp, with tungsten carbide, curved up, size 115

Scissors
(cont.)

Delicate Scissors



Scissors
delicate, curved, sharp/sharp,
12 cm total length



WT183312 Scissors, fine, sharp/sharp, curved up, size 120

Scissors, acc. to Joseph
14 cm total length



WT276514 Scissors, acc. to Joseph, straight, size 140
WT276614 Scissors, acc. to Joseph, curved up, size 140

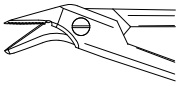
Scissors, acc. to Joseph
14 cm total length,
with tungsten carbide edges



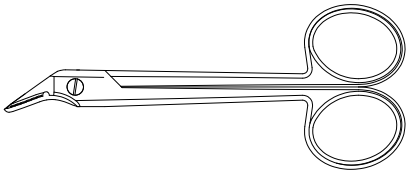
WT276714 Scissors, acc. to Joseph, with tungsten carbide, straight, size 140
WT276814 Scissors, acc. to Joseph, with tungsten carbide, curved up, size 140

Wire Cutting Scissors

Wire cutting scissors
saw edge, standart blades,
12 cm total length

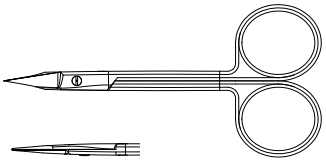


WT277901 Wire cutting scissors, universal, serrated, size 120



Wire cutting scissors, acc. to Schuhknecht
saw edge, 10 cm total length

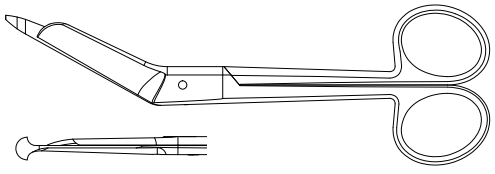
WT269500 Wire cutting scissors, acc. to Schuhknecht, serrated, size 100



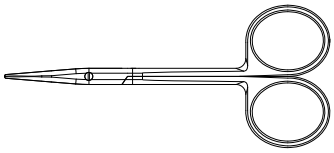
Bandage Scissors

Bandage scissors, acc. to Lister
various total lengths (mm)

WT212614 Bandage scissors, acc. to Lister, angled, size 145
WT212618 Bandage scissors, acc. to Lister, angled, size 180



Strabismus Scissors



Strabismus scissors
blunt, 10.5 cm total length



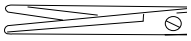
WT277010 Strabismus scissors, blunt/blunt, straight, size 105



WT277110 Strabismus scissors, blunt/blunt, curved up, size 105



Strabismus scissors
straight, 11.5 cm total length



WT277212 Strabismus scissors, blunt/blunt, straight, size 115



WT277012 Strabismus scissors, blunt/blunt, with tungsten carbide, straight, size 115



Strabismus scissors
curved, 11.5 cm total length



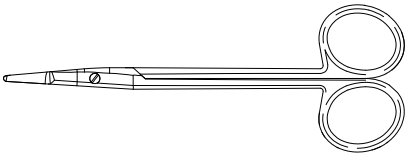
WT277312 Strabismus scissors, blunt/blunt, curved up, size 115



WT277112 Strabismus scissors, blunt/blunt, with tungsten carbide, curved up, size 115

Dissection Scissors

Kilner Dissection Scissors



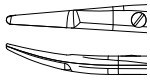
Scissors, acc. to Kilner
for plastic surgery, curved, 12 cm total length

WT438712 Scissors, acc. to Kilner, curved up, size 120



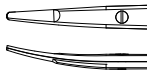
Dissection Scissors, acc. to Kilner
13.5 cm total length

WT438714 Dissection scissors, acc. to Kilner, curved up, size 135

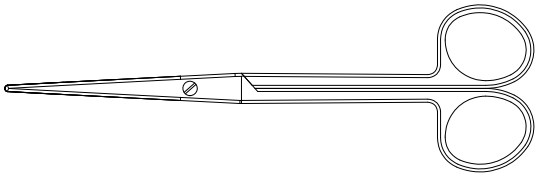


Scissors, acc. to Kilner
13 cm total length

WT438813 Scissors, acc. to Kilner, with tungsten carbide, curved up, size 120



Lexer-Fino Dissection Scissors



Dissection scissors, acc. to Lexer-Fino
16.5 cm total length

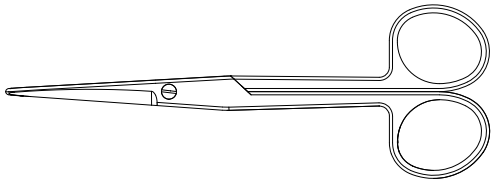
WT212216 Dissection scissors, acc. to Lexer-Fino, straight, size 165



WT212316 Dissection scissors, acc. to Lexer-Fino, curved up, size 165



Mayo Dissection Scissors



Dissection scissors, acc. to Mayo
straight,
various total lengths (mm)



WT212014 Dissection scissors, acc. to Mayo, blunt/blunt, straight, size 145

WT212015 Dissection scissors, acc. to Mayo, blunt/blunt, straight, size 150

WT212017 Dissection scissors, acc. to Mayo, blunt/blunt, straight, size 170

WT212027 Dissection scissors, acc. to Mayo, with tungsten carbide, blunt/blunt, straight, size 170

Dissection scissors, acc. to Mayo
curved,
various total lengths (mm)

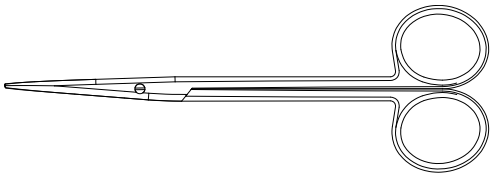


WT212114 Dissection scissors, acc. to Mayo, blunt/blunt, curved up, size 145

WT212115 Dissection scissors, acc. to Mayo, blunt/blunt, curved up, size 150

WT212117 Dissection scissors, acc. to Mayo, blunt/blunt, curved up, size 170

Metzenbaum Dissection Scissors



Dissection scissors, acc. to Metzenbaum
straight, various total lengths (mm)



WT541814	Dissection scissors, acc. to Metzenbaum, straight, size 145
WT541818	Dissection scissors, acc. to Metzenbaum, straight, size 180

Dissection scissors, acc. to Metzenbaum
curved, various total lengths (mm)



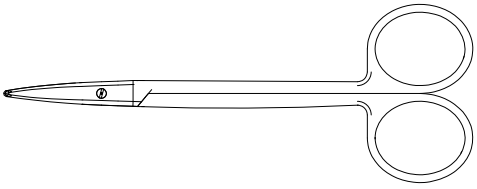
WT542014	Dissection scissors, acc. to Metzenbaum, curved up, size 145
WT542018	Dissection scissors, acc. to Metzenbaum, curved up, size 180
WT542020	Dissection scissors, acc. to Metzenbaum, curved up, size 205

Dissection scissors, acc. to Metzenbaum
with tungsten carbide edges, curved
various total lengths (mm)



WT542214	Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 145
WT542218	Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 180
WT542220	Dissection scissors, acc. to Metzenbaum, with tungsten carbide, curved up, size 200

Metzenbaum-Fino Dissection Scisscors



Dissection scissors,
acc. to Metzenbaum-Fino
curved, various total lengths (mm)



WT542114	Dissection scissors, acc. to Metzenbaum-Fino, curved up, size 140
WT542118	Dissection scissors, acc. to Metzenbaum-Fino, curved up, size 180
WT542120	Dissection scissors, acc. to Metzenbaum-Fino, curved up, size 200

Dissection scissors,
acc. to Metzenbaum-Fino
with tungsten carbide edges,
curved, various total lengths (mm)



WT542414	Dissection scissors, acc. to Metzenbaum-Fino, with tungsten carbide, curved up, size 145
WT542418	Dissection scissors, acc. to Metzenbaum-Fino, with tungsten carbide, curved up, size 180
WT542420	Dissection scissors, acc. to Metzenbaum-Fino, with tungsten carbide, curved up, size 200

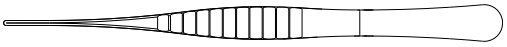
Dissection scissors,
acc. to Metzenbaum-Fino
straight, 14.5 cm total length



WT541914	Dissection scissors, acc. to Metzenbaum-Fino, straight, size 145

Dressing and Tissue Forceps

DeBakey Atraumatic Forceps



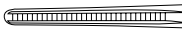
Thumb forceps, atraumatic, acc. to DeBakey
15 cm total length, 1.5 mm tip width



WT209516 Thumb forceps, atraumatic, acc. to DeBakey, straight, size 1.5 x 150



Thumb forceps, atraumatic, acc. to DeBakey
15 cm total length, 2 mm tip width



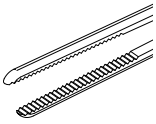
WT209616 Thumb forceps, atraumatic, acc. to DeBakey, straight, size 2.0 x 150



Semken Thumb Forceps



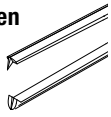
Thumb forceps, acc. to Semken
12.5 cm



WT208612 Thumb forceps, acc. to Semken, delicate, size 125



Thumb forceps, for dissection, acc. to Semken
12.5 cm, 1x2 teeth



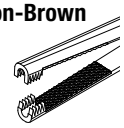
WT208712 Thumb forceps, for dissection, acc. to Semken, delicate, size 125



Adson-Brown Thumb Forceps



Thumb forceps, for dissection, acc. to Adson-Brown
12 cm total length, 1.8 mm tip width,
7 x 7 side grasping teeth



WT425012 Thumb forceps, for dissection, acc. to Adson-Brown, 7 x 7 teeth, size 120



Thumb forceps, for dissection, acc. to Adson-Brown
12 cm total length, 1.8 mm tip width,
with tungsten carbide inserts, 5 x 5 teeth

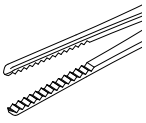


WT425512 Thumb forceps, for dissection, acc. to Adson-Brown, with tungsten carbide, size 120

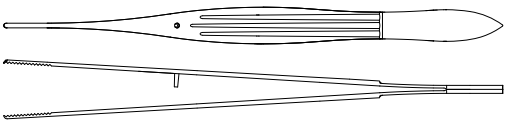


McIndoe Thumb Forceps

Thumb forceps, acc. to McIndoe
15 cm



WT208915 Thumb forceps, acc. to McIndoe, size 150



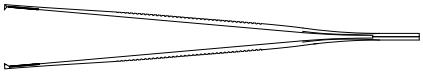
Adson Thumb Forceps



Thumb forceps, for dissection, acc. to Adson
12 cm total length, 1.7 mm tip width,
with tungsten carbide inserts, 1 x 2 teeth



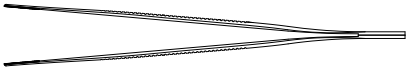
WT425712 Thumb forceps, for dissection, acc. to Adson,
with tungsten carbide, size 125



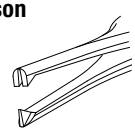
Thumb forceps, for dissection, acc. to Adson
12 cm total length, 1.7 mm tip width,
with tungsten carbide inserts



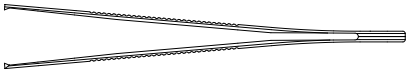
WT425612 Thumb forceps, for dissection, acc. to Adson,
with tungsten carbide, size 1.7 x 120



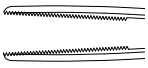
Thumb forceps, for dissection, acc. to Adson
12 cm total length, 1.5 mm tip width



WT425212 Thumb forceps, for dissection,
acc. to Adson, size 120



Thumb forceps, acc. to Adson
delicate, 12 cm, 1.2 mm tip



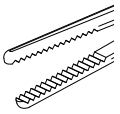
WT425112 Thumb forceps, acc. to Adson, size 120



Dressing and Tissue Forceps



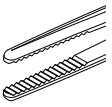
Thumb forceps
standard, various sizes (mm)



WT209013 Thumb forceps, straight, size 130
WT209014 Thumb forceps, straight, size 145
WT209016 Thumb forceps, straight, size 160
WT209020 Thumb forceps, straight, size 200



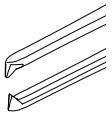
Thumb forceps
narrow, various sizes (mm)



WT209000 Thumb forceps, narrow, straight, size 130
WT209001 Thumb forceps, narrow, straight, size 145
WT209003 Thumb forceps, narrow, straight, size 200



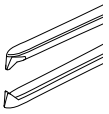
Thumb forceps
standard, 1x2 teeth,
various sizes (mm)



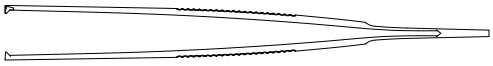
WT209113 Thumb forceps, for dissection, straight, size 130
WT209114 Thumb forceps, for dissection, straight, size 145
WT209116 Thumb forceps, for dissection, straight, size 160
WT209120 Thumb forceps, for dissection, straight, size 200



Thumb forceps
narrow, 1x2 teeth,
various sizes (mm)



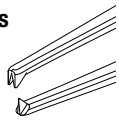
WT209101 Thumb forceps, for dissection, narrow, straight, size 145
WT209103 Thumb forceps, for dissection, narrow, size 200



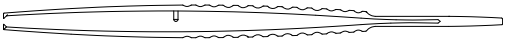
Dressing and Tissue Forceps (cont.)

Gillies Thumb Forceps

Thumb forceps, for dissection, acc. to Gillies
15 cm, 1x2 teeth



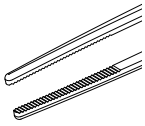
WT209415 Thumb forceps, for dissection, acc. to Gillies, size 150



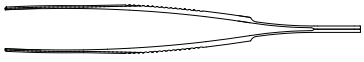
Graefe Thumb Forceps



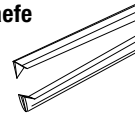
Thumb forceps, acc. to Graefe
10 cm



WT209210 Thumb forceps, acc. to Graefe, straight, size 100



Thumb forceps, for dissection, acc. to Graefe
10 cm, 1x2 teeth



WT209310 Thumb forceps, for dissection, acc. to Graefe, straight, size 100



Needle Holders



EXPLORENT

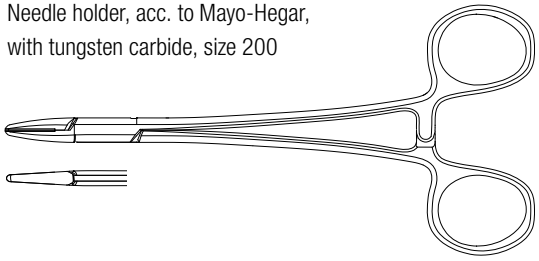
- Standard and smooth models
- Tungsten carbide inserts for high durability

Needle Holders

Needle holder, acc. to Mayo-Hegar
with tungsten carbide inserts,
various total lengths (mm)



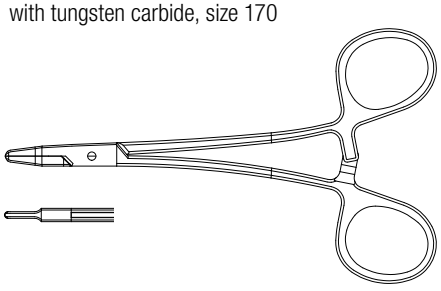
WT214016 Needle holder, acc. to Mayo-Hegar, with tungsten carbide, size 160
WT214018 Needle holder, acc. to Mayo-Hegar, with tungsten carbide, size 180
WT214020 Needle holder, acc. to Mayo-Hegar, with tungsten carbide, size 200



Needle holder, acc. to Senning
with tungsten carbide inserts,
various total lengths (mm)



WT212930 Needle holder, acc. to Ryder, micro, with tungsten carbide, size 130
WT467015 Needle holder, acc. to Senning, with tungsten carbide, slender, size 150
WT467017 Needle holder, acc. to Ryder, delicate, with tungsten carbide, size 170

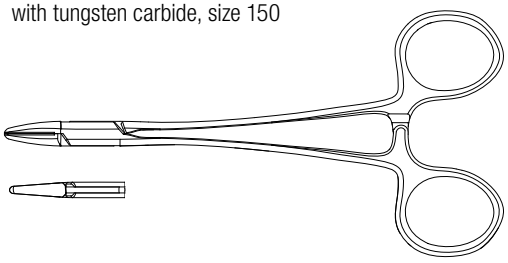


Needle Holders (cont.)

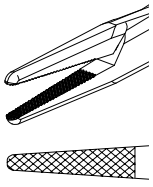
Needle holder, acc. to Crile-Wood
with tungsten carbide inserts,
15 cm total length



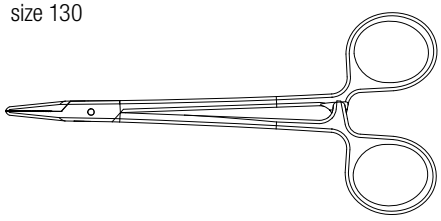
WT213015 Needle holder, acc. to Crile-Wood, with tungsten carbide, size 150



Needle holder, acc. to Halsey
with tungsten carbide inserts,
13 cm total length

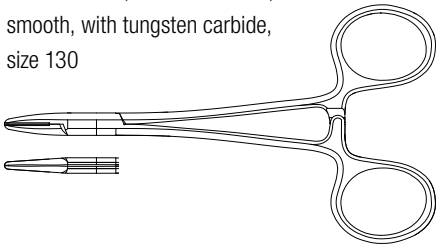


WT213113 Needle holder, acc. to Halsey, with tungsten carbide, size 130



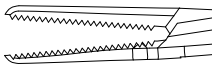
Needle holder, acc. to Webster
with tungsten carbide inserts,
13 cm total length

WT213013 Needle holder, acc. to Webster, smooth, with tungsten carbide, size 130



Halstead-Mosquito Artery Forceps

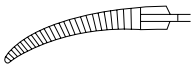
Artery forceps,
acc. to Halstead-Mosquito
12.5 cm total length

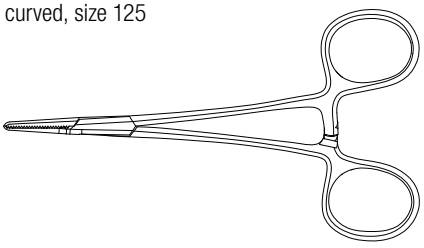


WT184412 Artery forceps, acc. to Halstead-Mosquito, straight, size 125

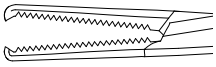


WT184512 Artery forceps, acc. to Halstead-Mosquito, curved, size 125





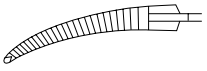
Artery forceps,
acc. to Halstead-Mosquito
1 x 2 teeth, 12.5 cm total length

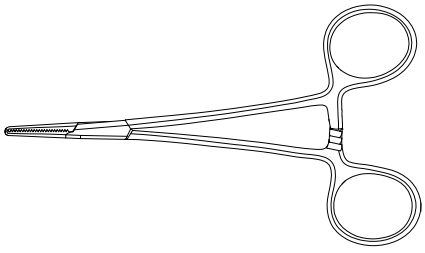


WT184612 Artery forceps, acc. to Halstead-Mosquito, 1 x 2 teeth, straight, size 125



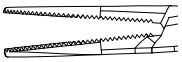
WT184712 Artery forceps, acc. to Halstead-Mosquito, 1 x 2 teeth, curved, size 125





Mosquito Artery Forceps

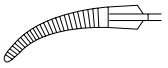
Artery forceps, Mosquito type
12 cm total length

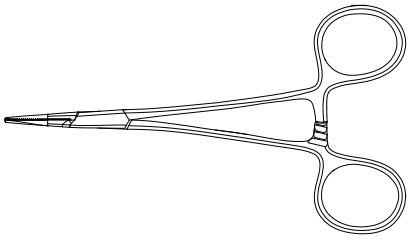


WT184812 Artery forceps, Mosquito type, micro, straight, size 120

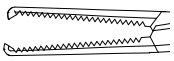


WT184912 Artery forceps, Mosquito type, micro, curved, size 120





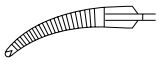
Artery forceps, Mosquito type
1 x 2 teeth, 12.5 cm total length

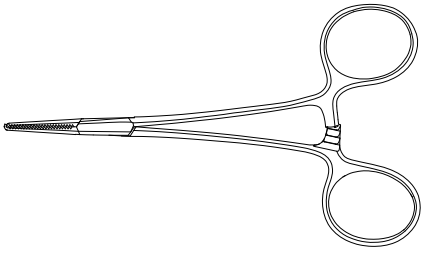


WT185012 Artery forceps, Mosquito type, micro, 1 x 2 teeth, straight, size 125



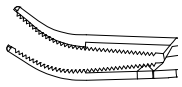
WT185112 Artery forceps, Mosquito type, micro, 1 x 2 teeth, curved, size 125



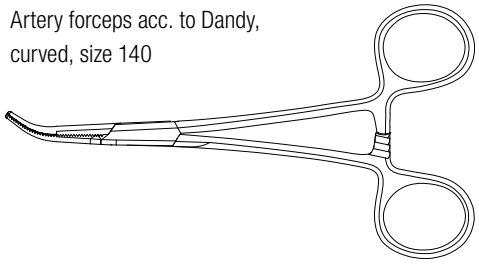


Dandy Artery Forceps

Artery forceps acc. to Dandy
lateral curved, 14 cm total length

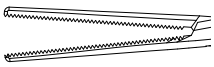


WT185214 Artery forceps acc. to Dandy, curved, size 140



Pean Artery Forceps

Artery forceps, acc. to Pean
delicate, 14 cm total length

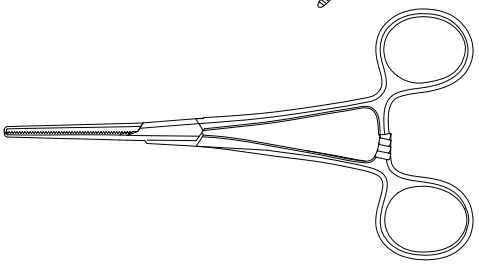


WT184014 Artery forceps, acc. to Pean, delicate, straight, size 140

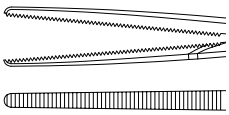


WT184114 Artery forceps, acc. to Pean, delicate, curved, size 140



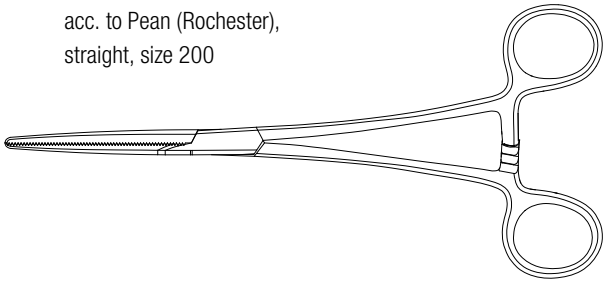


Artery forceps, acc. to Pean (Rochester)
straight, various total lengths (mm)



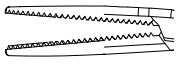
WT185318 Artery forceps, acc. to Pean (Rochester), straight, size 180

WT185320 Artery forceps, acc. to Pean (Rochester), straight, size 200

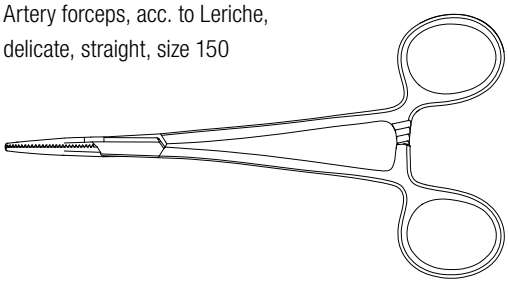


Leriche Artery Forceps

Artery forceps, acc. to Leriche
15 cm total length

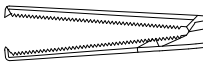


WT186515 Artery forceps, acc. to Leriche, delicate, straight, size 150



Artery Forceps

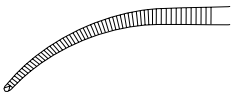
Artery forceps, acc. to Kocher
1 x 2 teeth, various total lengths (mm)



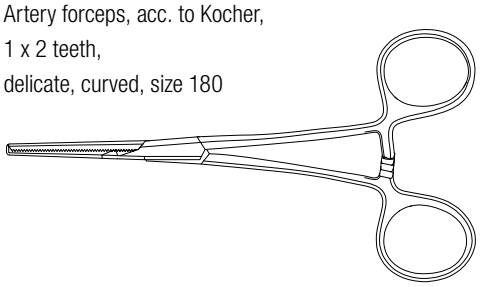
WT184214 Artery forceps, acc. to Kocher, 1 x 2 teeth, delicate, straight, size 140



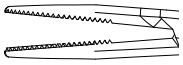
WT184314 Artery forceps, acc. to Kocher, 1 x 2 teeth, delicate, curved, size 140



WT184318 Artery forceps, acc. to Kocher, 1 x 2 teeth, delicate, curved, size 180



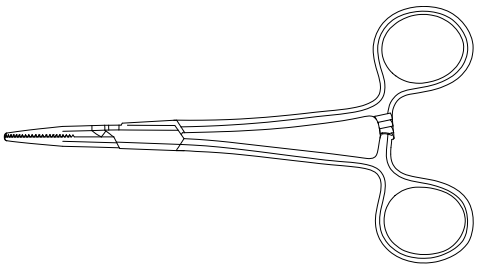
Artery forceps, acc. to Kelly
14 cm total length



WT186214 Artery forceps, acc. to Kelly, delicate, straight, size 140



WT186314 Artery forceps, acc. to Kelly, delicate, curved, size 140



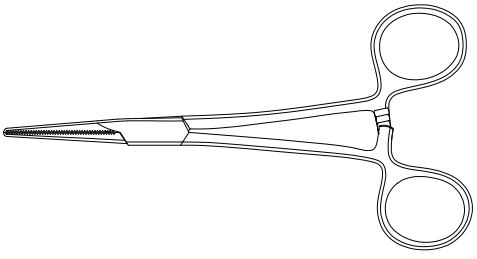
Artery forceps, acc. to Crile
14 cm total length



WT186414 Artery forceps, acc. to Crile, delicate, straight, size 140



WT186514 Artery forceps, acc. to Crile, delicate, curved, size 140



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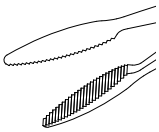
Dressing, Towel and Sponge Forceps



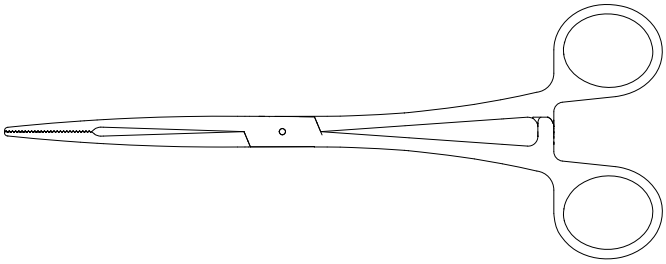
EXPLORENT

Dressing Forceps

Dressing forceps, acc. to Gross-Maier
20 cm total length

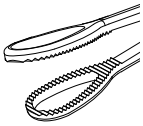


WT185420 Dressing forceps, acc. to Gross-Maier, with ratchet, straight, size 200



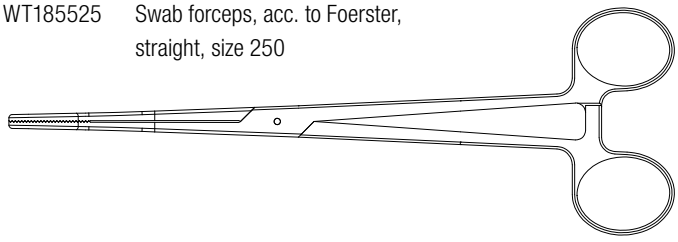
Sponge Forceps

Swab forceps, acc. to Foerster
various total lengths (mm), 13 mm jaw width



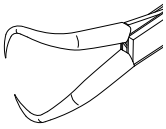
WT185520 Swab forceps, acc. to Foerster, straight, size 210

WT185525 Swab forceps, acc. to Foerster, straight, size 250

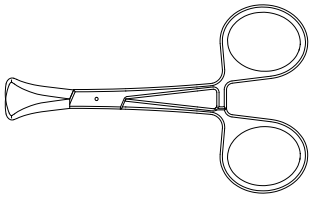


Towel Forceps

Towel forceps, acc. to Backhaus
various total lengths (mm)



WT186008 Towel forceps, acc. to Backhaus, size 80
WT186011 Towel forceps, acc. to Backhaus, size 110
WT186013 Towel forceps, acc. to Backhaus, size 130

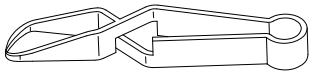


Towel Forceps (cont.)

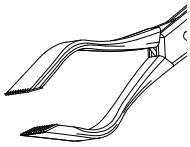
Towel forceps, acc. to Schaedel
9 cm total lengths



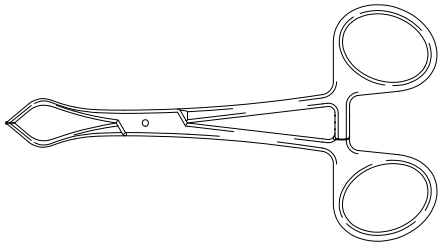
WT186109 Towel forceps, acc. to Schaedel, size 90



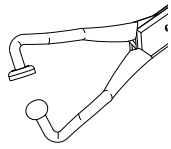
Towel forceps, acc. to Lorna
13 cm total length



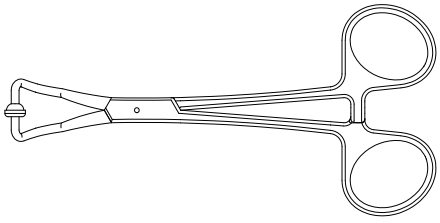
WT000848 Towel forceps, acc. to Lorna, size 130



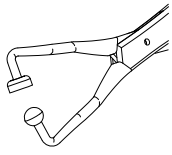
Towel forceps
13 cm total length



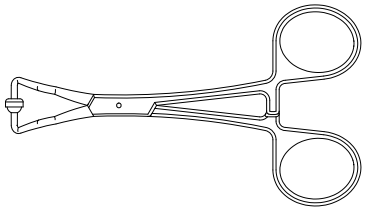
WT186200 Towel forceps, size 130



Towel forceps
11 cm total length



WT186211 Towel forceps, non-perforating, size 110





EXPLORENT

- Models with blunt and sharp prongs
- Double-ended models

Retractors

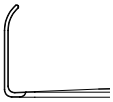
Retractor, acc. to Farabeuf
set of 2 pcs., 12 cm total length

WT564500 Retractor, acc. to Farabeuf, set, size 120

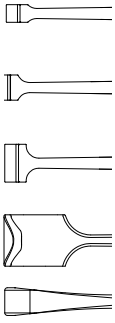
Sizes
Retractor Fig. 1 .....26 x 10 mm
30 x 13 mm
Retractor Fig.2 .....30 x 10 mm
34 x 13 mm

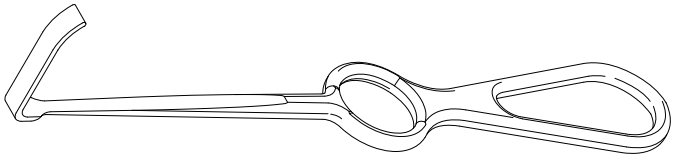


Retractor, acc. to Langenbeck
21 cm total length,
various working length and width (mm)



WT502501 Retractor, acc. to Langenbeck, size 35 x 7.0 210
WT502502 Retractor, acc. to Langenbeck, size 35 x 10 210
WT502503 Retractor, acc. to Langenbeck, size 35 x 15 210
WT502504 Retractor, acc. to Langenbeck, size 35 x 20 210
WT502505 Retractor, acc. to Langenbeck, size 40 x 11 210

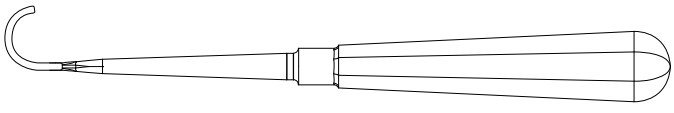




Retractor, acc. to Middeldorpf
21.5 cm total length, 14 x 17 mm



WT502101 Retractor, acc. to Middeldorpf, size 14 x 17 215

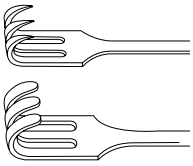


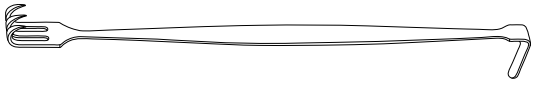
Retractors (cont.)

Hook, acc. to Senn-Miller
double-ended, 16 cm total length



WT564000 Hook, acc. to Senn-Miller, sharp, size 160
WT564100 Hook, acc. to Senn-Miller, 3 prongs, sharp, size 160

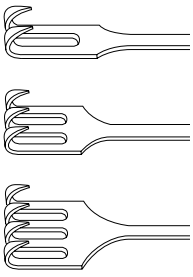




Tracheal hook
16 cm total length, sharp



WT567001 Tracheal hook, 1 prong, sharp, size 160
WT567002 Tracheal hook, 2 prongs, sharp, size 160
WT567003 Tracheal hook, 3 prongs, sharp, size 160
WT567004 Tracheal hook, 4 prongs, sharp, size 160

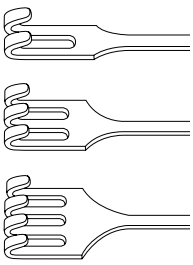




Tracheal hook
16 cm total length, blunt



WT568001 Tracheal hook, 1 prong, blunt, size 160
WT568002 Tracheal hook, 2 prongs, blunt, size 160
WT568003 Tracheal hook, 3 prongs, blunt, size 160
WT568004 Tracheal hook, 4 prongs, blunt, size 160





Needles

Septum cannula
Luer-lock, bayonet shaped,
13 cm working length, 0.8 mm diameter

WT111700 Septum cannula, with Luer-lock,
bayonet shaped, size 0.8 x 130



Septum cannula
Luer-lock, angled,
11 cm working length, 0.8 mm diameter

WT111800 Septum cannula, with Luer-lock,
angled, size 0.8 x 110



Scalpel Handles

Scalpel handle
12.5 cm total length

WT429003 Scalpel handle, no. 3,
solid, size 125



Scalpel handle
21.5 cm total length

WT429103 Scalpel handle, no. 3L,
solid, straight, size 215



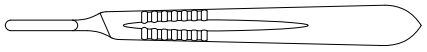
Scalpel handle
16.5 cm total length

WT429007 Scalpel handle, no. 7,
solid, long, size 165



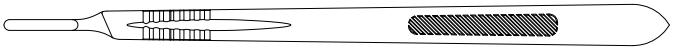
Scalpel handle
12.5 cm total length

WT429004 Scalpel handle, no. 4,
solid, size 125



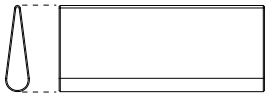
Scalpel handle
21.5 cm total length

WT429104 Scalpel handle, no. 4L,
solid, straight, size 215



Whetstone

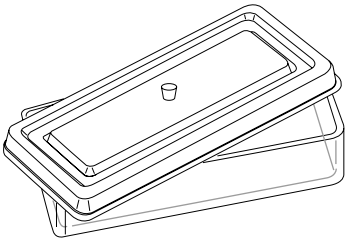
WT403800 Whetstone, Arkansas type,
wedge shaped



Trays

Glass tray
with stainless steel lid,
various sizes (mm)

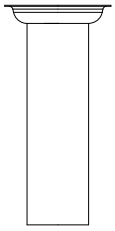
WT813020 Glass tray, with stainless steel lid, size 200 x 100
WT813022 Glass tray, with stainless steel lid, size 220 x 150



Cups

Jar
stainless steel,
50 mm height, 180 mm diameter

WT810175 Jar, stainless steel,
size 50 x 180



Medicine cup
stainless steel,
50 mm height,

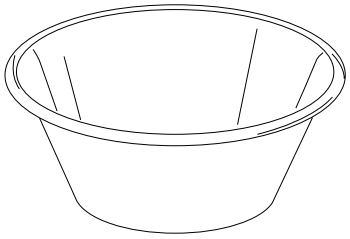
WT997000 Medicine cup, stainless steel,
size 50



Bowls

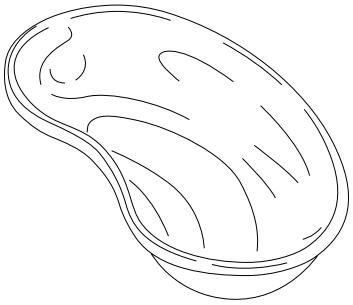
Round bowl
stainless steel,
various volumes (l), heigths (cm) and diameters (mm)

WT997001 Round bowl, stainless steel, size 0.75 / 7.5 x 150
WT997002 Round bowl, stainless steel, size 1.0 / 7.5 x 160
WT997003 Round bowl, stainless steel, size 2.0 / 7.0 x 220
WT997004 Round bowl, stainless steel, size 3.0



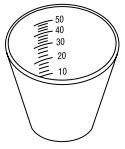
Kidney bowl
stainless steel,
various lengths (mm), widths (mm) and heights (mm)

WT997008 Kidney bowl, stainless steel, size 170 x 100 x 35
WT997010 Kidney bowl, stainless steel, size 250 x 140 x 40
WT997020 Kidney bowl, stainless steel, size 275 x 150 x 45



Round bowl
graduated, stainless steel
various volumes (l), heights (cm) and diameters (mm)

WT997030 Round bowl, stainless steel, size 0.03 / 2.5 x 50
WT997050 Round bowl, stainless steel, size 0.05 / 4.5 x 50
WT997100 Round bowl, stainless steel, size 0.1 / 3.5 x 80
WT997150 Round bowl, stainless steel, size 0.2 / 5.5 x 90
WT997408 Round bowl, stainless steel, size 0.5 / 5.5 x 140



OLYMPUS

Your Vision, Our Future

Ossicular Reconstruction

Prostheses 453

Mastoidectomy
Hydroxylapatite Accessories 473

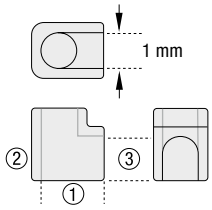
Accessories 475

Applebaum Incudostapedial Joint Prostheses

- Reestablishes the ossicular chain when the incudostapedial joint is missing.
- Eliminates the need for a bone chip interposition or removal of the incus.

Applebaum incudostapedial joint prosthesis,
dense hydroxylapatite,
1 mm cannulated,

140956	small, 2 x 2 x 1.2 mm
140957	large, 2.5 x 2 x 1.2 mm



Dimensions: ① x ② x ③

Suggested by Edward L. Applebaum, M.D., Chicago, IL, USA

Applebaum Incus Replacement System (I.R.S.)

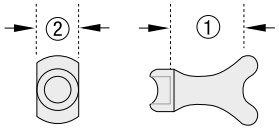
Designed to closely resemble a carved homograft/autograft incus interposition implant.

- Made of dense hydroxylapatite.
- Offered in 5 sizes, eliminating any need to trim.
- Partially cannulated to fit on the stapes capitulum, and the carved “notch” engages the malleus handle.
- Size is easily determined using the Applebaum measuring rod (#130976, for details, see page 190).

Applebaum incus replacement system,

140970	2 x 2.5 mm
140971	2.25 x 2.5 mm
140972	2.5 x 2.5 mm
140973	3 x 2.5 mm
140974	3.5 x 2.5 mm

Dimensions: ① x ②



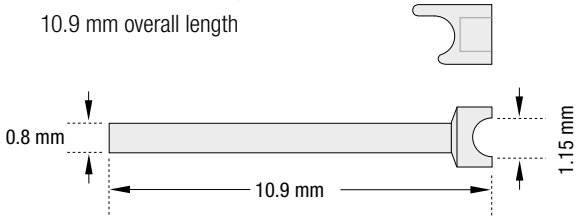
Developed by Edward L. Applebaum, M.D., Chicago, IL, USA

Black Spanner Strut

The spanner strut represents a modular approach to incus and incus-stapes replacement.

- The hydroxylapatite head is designed to cradle the malleus handle and is partially cannulated to fit the shaft.
- The trimmable fluoroplastic shaft is designed with a cupped end to be positioned over the stapes capitulum when an incus replacement is necessary.
- For incus-stapes replacement, the cupped end is trimmed off. The remaining shaft is positioned on the stapes footplate and engages the hydroxylapatite cap and malleus.
- The fluoroplastic shaft is trimmed to fit patient anatomy and can be angled with forceps.

140923	Black spanner strut, hydroxylapatite/fluoroplastic, 1.15 mm cup inner diameter, 0.8 mm shaft diameter, 10.9 mm overall length

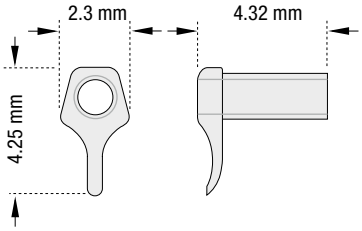


Developed by Bruce Black, M.D., Brisbane, Australia.

Goldenberg Incus Prostheses

- Hydroxylapatite head designed with a “hook” to be rotated inferiorly or superiorly along the length of the malleus handle.
- Includes a centering hole to view the stapes capitulum.
- Plasti-Pore® shaft may be trimmed to exact length and notched for the stapedius tendon.

140912 Goldenberg incus prosthesis,
hydroxylapatite/Plasti-Pore®,
head dimensions: 4.25 x 2.3 mm,
fully cannulated,
4.32 mm overall length

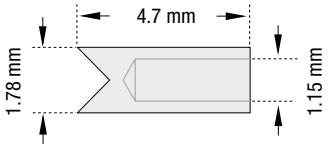


Grate Malleus-to-Stapes Strut

This prosthesis is designed to meet the needs of ossicular reconstruction.

- The radiused upper portion conforms to the shape of the malleus and the hollow post seats firmly on the stapes superstructure.
- The malleus-to-stapes strut is made of Plasti-Pore® material, a porous, high-density polyethylene that allows soft tissue ingrowth.

140842 Grate malleus-to-stapes strut,
Plasti-Pore®,
1.15 mm inner diameter,
1.78 mm outer diameter,
4.7 mm overall length



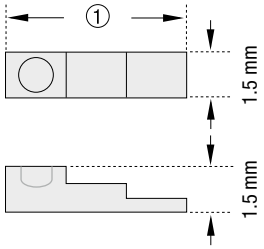
Designed for M.R. Grate, M.D., Tallahassee, FL, USA

Grote Incus Prostheses

The design of this incus prosthesis implant allows stable placement between the malleus and the capitulum of the stapes.

- The opening in the wide end of the prosthesis easily fits over the capitulum to aid in stabilization.
- The unique “stair-step” design allows the prosthesis to bridge the gap between the malleus handle and the capitulum of the stapes.
- The large flat surface of the prosthesis may rest directly against the tympanic membrane.
- The prosthesis can easily be shaped with a diamond burr using irrigation.

Grote incus prosthesis,
hydroxylapatite,
1.5 mm height, 1.5 mm width,
0.83 mm partially cannulated,
140865 6 mm overall length ①
70140990 7 mm overall length ①

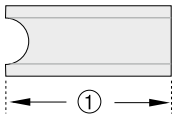


Designed by Jan J. Grote, Leiden, The Netherlands.

Kartush Incus Strut Prostheses

- This dense hydroxylapatite strut was designed to bridge the gap between the malleus handle and capitulum of the stapes.
- Shaft is fully cannulated for improved visualization.

Kartush incus strut prosthesis,
hydroxylapatite,
1.17 mm fully cannulated,
140853 short shaft, 2.75 mm overall length ①
140854 medium shaft, 3.9 mm overall length ①
140855 long shaft, 4.9 mm overall length ①



Designed by Jack M. Kartush, M.D., Michigan Ear Institute, Detroit, MI, USA

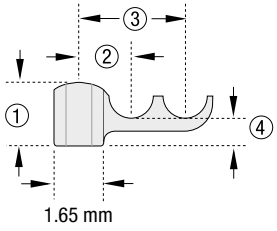
Wehrs Incus Prostheses, Double Notch

- The double notch incus prosthesis is designed for use when the anatomic position of the stapedial head in relation to the malleus handle is between 1.2 and 2 milimeters, or between 3 and 4 milimeters.
- For the smaller dimension, the second notch may be removed with a diamond burr using irrigation.

Wehrs incus prosthesis,
double notch,
hydroxylapatite,

140877	short, 2.1 x 0.9 x 1.6 x 3.5 mm
140941	average, 2.7 x 1.5 x 1.6 x 3.5 mm
140878	medium, 3.3 x 2.1 x 1.6 x 3.5 mm
140879	long, 4.5 x 3.3 x 1.6 x 3.5 mm

Dimensions: ① x ④ x ② x ③



Designed by Roger E. Wehrs, M.D., Tulsa, OK, USA

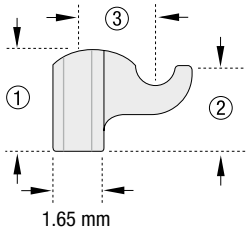
Wehrs Incus Prostheses, Single Notch

- The single notch prosthesis is applicable when the “offset” from the head of the stapes to the malleus handle is estimated to be from 2 to 3 mm.
- Lesser or greater distances require the use of a double notch prosthesis.

Wehrs incus prosthesis,
single notch,
hydroxylapatite,

140874	short, 2.1 x 0.9 x 2.5 mm
140940	average, 2.7 x 1.5 x 2.5 mm
140875	medium, 3.3 x 2.1 x 2.5 mm
140876	long, 4.5 x 3.3 x 2.5 mm

Dimensions: ① x ② x ③

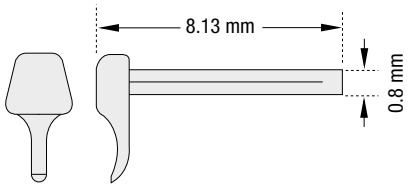


Designed by Roger E. Wehrs, M.D., Tulsa, OK, USA

Goldenberg Incus-Stapes Prostheses

- Hydroxylapatite head designed with “hook” may be rotated inferiorly or superiorly along the length of the malleus handle.
- Wire reinforced Plasti-Pore® shaft is easily trimmed to length and provides stability and memory for bending to proper angulation.

140913 Goldenberg incus-stapes prosthesis,
hydroxylapatite head, Plasti-Pore® shaft,
0.8 mm shaft diameter,
8.13 mm overall length



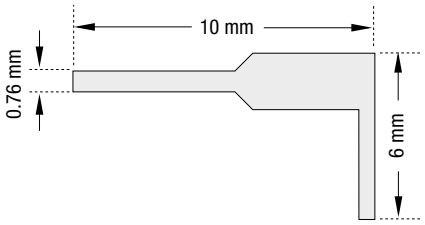
Developed with Robert Goldenberg, M.D., Dayton, OH, USA

Grote Incus-Stapes Prosthesis

This prosthesis is designed for use in case of a missing incus and stapes superstructure but a mobile footplate.

- Each implant is formed of dense hydroxylapatite, a highly biocompatible material with a chemical composition nearly identical to bone.
- This material may rest directly against the tympanic membrane with minimal risk of extrusion.

140869 Grote incus-stapes prosthesis,
hydroxylapatite,
0.76 mm shaft diameter,
6 mm handle length,
10 mm overall length



Designed by Jan J. Grote, Leiden, The Netherlands

Use

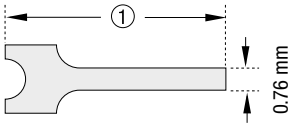
- Measure the distance from the footplate to the undersurface of the tympanic membrane.
- Measure the offset between the centerline of the footplate and the handle of the malleus.
- Use these measurements to trim the prosthesis to the proper dimensions using a diamond burr and irrigation.
- Form a pocket between the handle of the malleus and the tympanic membrane.
- Place the top of the prosthesis in this pocket, and align the shaft into the footplate.

Kartush Incus-Stapes Strut Prostheses

- The dense hydroxylapatite strut was designed to bridge the gap between the malleus handle and stapes footplate.
- Length may be trimmed using a diamond burr with irrigation.

Kartush incus-stapes strut prosthesis,
hydroxylapatite,
0.76 mm shaft diameter,

140850	short, 5.3 mm overall length ①
140851	medium, 7.3 mm overall length ①
140852	long, 10.3 mm overall length ①



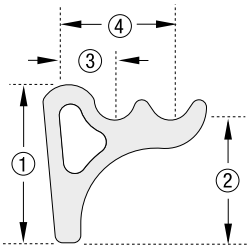
Designed by Jack M. Kartush, M.D., Michigan Ear Institute, Detroit, MI, USA

Wehrs II Incus-Stapes Prostheses

- The Wehrs II features a cut-out in the head of the prosthesis which adds increased strength and handling characteristics.

Wehrs II incus-stapes prosthesis,
double notch,
hydroxylapatite,
0.9 mm,

70140986	short, 5.3 x 4.1 x 1.6 x 3.5 mm
70140987	average, 6.3 x 5.2 x 1.6 x 3.5 mm
70140988	medium, 7.3 x 6.1 x 1.6 x 3.5 mm
70140989	long, 10.2 x 9 x 1.6 x 3.5 mm

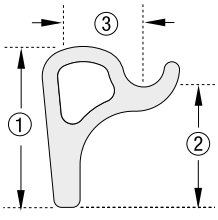


Dimensions: ① x ② x ③ x ④

Wehrs II incus-stapes prosthesis,
single notch,
hydroxylapatite,
0.9 mm,

70140982	short, 5.3 x 4.1 x 2.5 mm
70140983	average, 6.3 x 5.2 x 2.5 mm
70140984	medium, 7.3 x 6.1 x 2.5 mm
70140985	long, 10.2 x 9 x 2.5 mm

Dimensions: ① x ② x ③

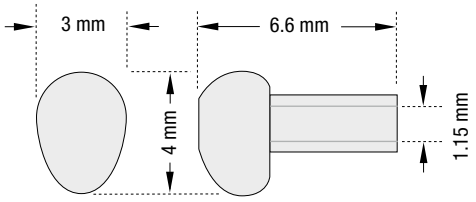


Black Oval-Top PORP® Prostheses

- Oval-top head is made of dense hydroxylapatite and designed to minimize extrusion by eliminating any sharp edges.
- Easily trimmable Plasti-Pore® or fluoroplastic shafts are cannulated to accommodate the stapes capitulum.

Black oval-top PORP® prosthesis,
1.15 mm partially cannulated,
head 4 x 3 mm,
6.6 mm overall length,

140859 hydroxylapatite/Plasti-Pore®
140857 hydroxylapatite/fluoroplastic



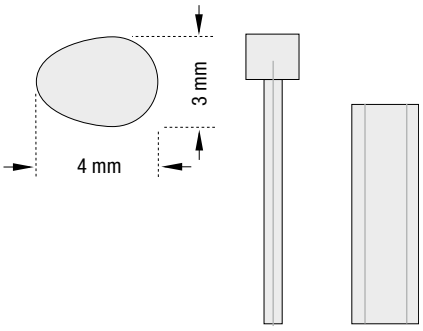
Developed with Bruce Black, M.D., Brisbane, Australia.

Black Oval-Top Universal Prostheses

- This modular approach to prosthesis design minimizes O.R. inventory by including both a PORP® and TORP® shaft which can be assembled in the prosthesis head.
- Shafts may be trimmed to length as necessary.

Black oval-top universal prosthesis,
hydroxylapatite/fluoroplastic,
head 4 x 3 mm,
6 mm/9.5 mm total length (PORP®/TORP®),
1.15 mm PORP® shaft diameter,

140861 0.8 mm (wire) TORP® shaft diameter
140860 0.8 mm TORP® shaft diameter

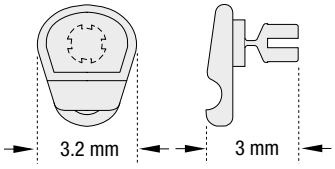


Requires O.R. assembly, only one shaft is actually used.
U.S. Patent Nos. 4,597,764; D286,909; D286, 910
Developed with Bruce Black, M.D., Brisbane, Australia.

Dornhoffer Interpositional PORP® Prosthesis

- The titanium cradle provides added stability as it locks onto the stapes superstructure.
- The notch in the hydroxylapatite head accommodates the malleus.

70141014 Dornhoffer interpositional PORP® prosthesis,
hydroxylapatite head/titanium shaft,
2 mm functional length with cradle,
3 mm overall length,
3.2 mm head diameter

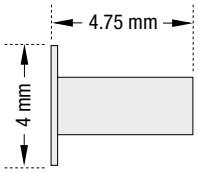


Designed for John Dornhoffer, M.D., Little Rock, AR, USA

Drum-to-Stapes Prosthesis PORP®

- Hollow post of prosthesis seats firmly on stapes.
- The thin, broad-faced flange seats against the tympanum with cartilage graft.
- Plasti-Pore® material construction invites tissue ingrowth to quickly stabilize the prosthesis.
- Can be trimmed to fit, as desired.

140059 Drum-to-stapes prosthesis PORP®,
Plasti-Pore®,
1.17 mm partially cannulated,
4 mm flange diameter,
4.75 mm overall length

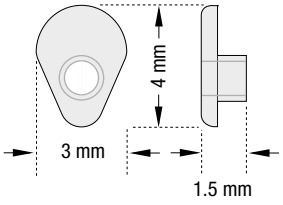


Designed for Ralph J. Caprosa, M.D., Pittsburgh, PA, USA

Goldenberg Cap Prosthesis

- Dense hydroxylapatite cap sold separately, to be used in shallow middle ear spaces.

140963 Goldenberg cap prosthesis,
hydroxylapatite,
fully cannulated,
1.5 mm overall length
head 4 x 3 mm

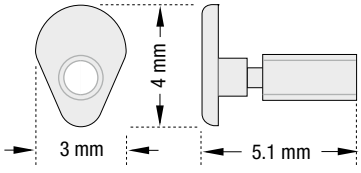


As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH, USA

Goldenberg Malleable PORP® Prostheses

Wedge-shaped, hydroxylapatite head is versatile and may be used if malleus is present but rotated anteriorly. Malleable shaft allows proper angulation against the drum and can be easily trimmed to length.

140964 Goldenberg malleable PORP® prosthesis,
hydroxylapatite head, Plasti-Pore® shaft,
partially cannulated,
5.1 mm overall length,
head 4 x 3 mm

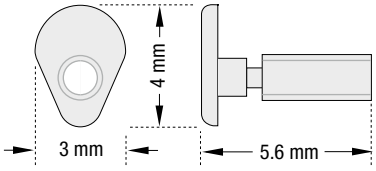


As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH, USA

Goldenberg PORP® Prosthesis

- Wedge-shaped hydroxylapatite head conforms to tympanic membrane.
- Cannulated to visualize the stapes capitulum.
- Plasti-Pore® shaft is trimmable and can be notched for stapedius tendon.

140916 Goldenberg PORP® prosthesis,
hydroxylapatite head, Plasti-Pore® shaft,
1.14 mm fully cannulated,
head 4 x 3 mm,
5.5 mm overall length

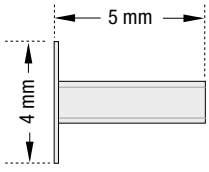


As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH, USA

Modified PORP® Prosthesis

- The modified partial ossicular replacement prosthesis (PORP®) features a cannulation of the prosthesis stem which offers the surgeon visibility of the superstructure of the stapes during the entire surgical procedure.
- Made of Plasti-Pore® material, a porous high-density polyethylene which is well-tolerated in the body as an implant, the post of the prosthesis seats firmly on the stapes and replaces the malleus and the incus.
- The implant may be trimmed as desired.

140084 Modified PORP® prosthesis,
Plasti-Pore®,
1.17 mm fully cannulated,
4 mm flange diameter,
5 mm overall length

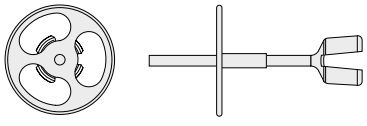


Designed for Leslie J. Block, M.D., Chicago, IL, USA

Micron® Adjustable Titanium PORP® Prostheses

- The Micron® adjustable titanium PORP® features a large open-head design for good visualization.
- Its adjustable nature allows for minimal stocking levels.

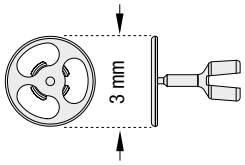
Micron® adjustable titanium PORP® prosthesis,
titanium,
2 – 5 mm dimension,
70141046 centered
70141047 off-centered



May be used with above products:
70135802 Micron titanium adjustable sizing block

Micron® All Titanium Monolithic PORP®

- The Monolithic PORPs® come pre-sized so that the surgeon does not need to trim the prosthesis.
- Additionally, the open-head design allows for good visualization.

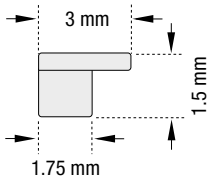


Micron® All Titanium Monolithic PORP®,
titanium,
tiltable head,
3 mm head diameter,
1 mm cradle functional diameter,
70142036 centered, 1.5 mm functional length
70142004 centered, 2 mm functional length
70142028 centered, 2.5 mm functional length
70142005 centered, 3 mm functional length
70142029 centered, 3.5 mm functional length
70142006 centered, 4 mm functional length
70142007 off-centered, 2 mm functional length
70142030 off-centered, 2.5 mm functional length
70142008 off-centered, 3 mm functional length
70142031 off-centered, 3.5 mm functional length
70142009 off-centered, 4 mm functional length

Off-Centered Cap Prosthesis

An off-centered version of the Shea Cap Prosthesis, used when anatomy does not permit a direct reconstruction.

140896 Off-centered cap prosthesis,
hydroxylapatite,
1 mm partially cannulated,
3 mm flange diameter,
1.5 mm overall length

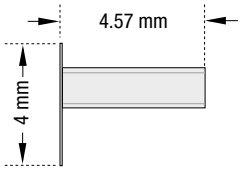


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Off-centered PORP® Prosthesis

- The off-centered Plasti-Pore PORP® is completely cannulated, allowing the surgeon visibility of the superstructure of the stapes during surgery.
- The position of the shaft permits a direct, rather than angled, stapes to tympanum placement.
- Made of Plasti-Pore® material, a porous, high-density polyethylene which is well-tolerated in the body.
- May be trimmed as desired.

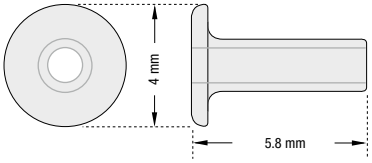
140051 Off-centered PORP® prosthesis,
Plasti-Pore®,
1.17 mm fully cannulated,
4 mm flange diameter,
4.57 mm overall length



Richards Centered PORP® Prosthesis

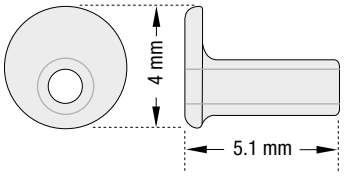
Fully cannulated hydroxylapatite partial ossicular replacement prosthesis.

140892 Richards centered PORP® prosthesis,
hydroxylapatite,
1.17 mm fully cannulated,
4 mm flange diameter,
5.1 mm overall length



Richards Off-Centered PORP® Prosthesis

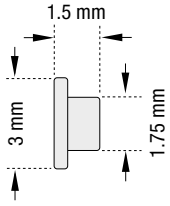
140893 Richards off-centered PORP® prosthesis,
hydroxylapatite,
1.17 mm fully cannulated,
4 mm flange diameter,
5.1 mm overall length



Shea Cap Prosthesis

- This versatile prosthesis functions as a short PORP®-type prosthesis.
- Can also be used in conjunction with other available implants or materials to bridge ossicular defects.

140895 Shea cap prosthesis,
hydroxylapatite,
1 mm partially cannulated,
1.75 mm base diameter,
3 mm flange diameter,
1.5 mm overall length

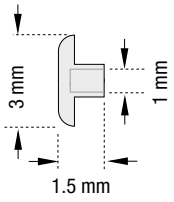


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Shea Cap Prosthesis

- Dense hydroxylapatite cap sold separately to be used in shallow middle ear spaces.
- Cannulated to accommodate stapes capitulum.

140960 Shea cap prosthesis,
hydroxylapatite,
1 mm partially cannulated,
3 mm head diameter,
1.5 mm overall length

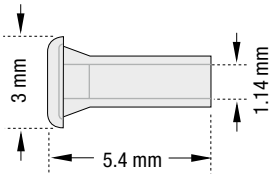


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Shea HA/FP Prosthesis

- Designed to minimize extrusion by rounding edges of hydroxylapatite head.
- Fluoroplastic cannulated shafts can be trimmed to size, reducing inventory needs.

140962 Shea HA/FP prosthesis,
hydroxylapatite head, fluoroplastic shaft,
1.14 mm partially cannulated,
3 mm head diameter,
5.4 mm overall length

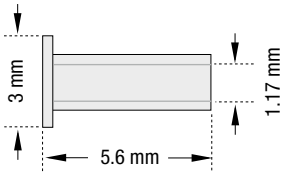


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Shea PORP® Prosthesis

- The Shea PORP® prosthesis utilizes a hydroxylapatite head and an “easy-to-trim” Plasti-Pore® shaft.
- The small diameter head makes reduction in size unnecessary for most reconstructions.
- The Plasti-Pore® shaft provides a cannulated, trimmable length for placement over the capitulum of the stapes.

140898 Shea PORP® prosthesis,
hydroxylapatite head, PlastiPore® shaft,
1.17 mm partially cannulated,
3 mm flange diameter,
5.6 mm overall length

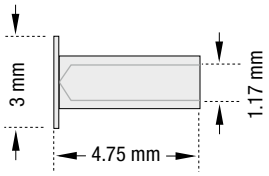


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Sheehy Modified PORP® Prosthesis

- The Sheehy modified PORP® prosthesis features a smaller diameter flange than does the standard PORP® prosthesis, which allows ease of introduction and better visual contact with the stapes.
- The cannulated shaft of the prosthesis is designed to be firmly seated on the capitulum of the stapes, to aid in visualization of the stapes, and can be trimmed to the desired length.

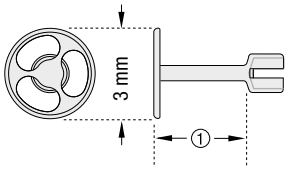
140053 Sheehy modified PORP® prosthesis,
Plasti-Pore®,
1.17 mm partially cannulated,
3 mm flange diameter,
4.75 mm overall length



Designed for James Sheehy, M.D., Los Angeles, CA, USA

PORP® Trials

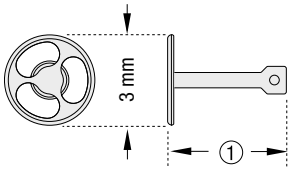
- The intraoperative measuring devices assist the surgeon in determining the appropriate implant.



PORP® trials,
3 mm head diameter,
not for implantation,

70131321 2 mm functional length ①
70131322 3 mm functional length ①
70131323 4 mm functional length ①

Ossicular Replacement Prostheses Measuring TORP® Trials



Ossicular replacement prosthesis measuring TORP® trials,
not for implantation,

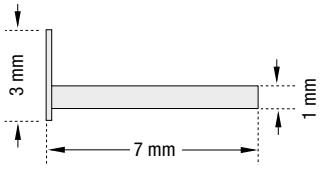
70131350 4 mm overall length ①
70131352 5 mm overall length ①
70131354 6 mm overall length ①
70131356 7 mm overall length ①

70135060 May be used with above products:
Sterilization case

Austin Modified Off-Centered TORP® Prosthesis

- The Austin modification of the Plasti-Pore® material columella enables a direct, rather than angled, union between the footplate and the tympanic membrane. This modification aids the surgeon in better visualizing the footplate.
- The head should be covered with autogenous cartilage to inhibit extrusion.

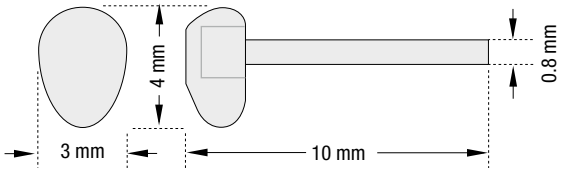
140063 Austin modified off-centered TORP® prosthesis,
Plasti-Pore®,
3 mm flange diameter,
1 mm shaft diameter,
7 mm overall length



Designed for David F. Austin, M.D., Iowa City, Iowa, USA

Black Oval-Top TORP® Prostheses

- Oval-top head is made of dense hydroxylapatite and is designed to minimize extrusion by eliminating any sharp edges.
- Easily trimmable Plasti-Pore® or fluoroplastic shafts reduce O.R. inventory needs.



Black oval-top TORP® prosthesis,
4 mm flange diameter,
0.8 mm shaft diameter,
10 mm overall length,
hydroxylapatite head,

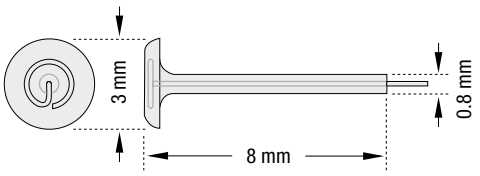
140858 Plasti-Pore® shaft

140856 fluoroplastic shaft

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia

Brackman Modified TORP® Prosthesis

70140563 Brackman modified TORP® prosthesis,
Plasti-Pore®/wire,
0.8 mm shaft diameter,
3 mm head diameter,
8 mm overall length, trimmable

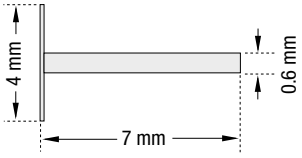


Designed for Daryl Brackman, M.D., Los Angeles, CA, USA

Causse Modified TORP® Prosthesis

- Same unique features as the standard Plasti-Pore® TORP® but with a smaller diameter (0.6 mm) shaft.
- The smaller shaft makes positioning of the implant easier when obstructions are present.

140057 Causse modified TORP® prosthesis,
Plasti-Pore®,
4 mm flange diameter,
0.6 mm shaft diameter,
7 mm overall length

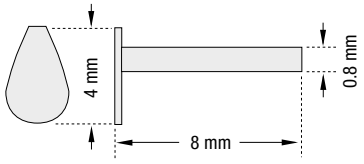


Designed for Jean-Bernard Causse, M.D., Béziers, France.

Fisch-Type TORP® Prosthesis

- L-shaped modification of the TORP® implant offering a smaller head size and shaft to permit better visibility while the surgeon is positioning the implant.
- Made of Plasti-Pore® material, the Fisch TORP® prosthesis can be trimmed to desired length.

140087 Fisch-type TORP® prosthesis,
Plasti-Pore®,
4 mm flange diameter,
0.8 mm shaft diameter,
8 mm overall length

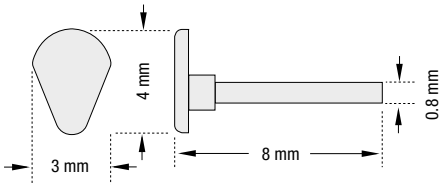


Designed for Ugo Fisch, M.D., Zurich, Switzerland.

Goldenberg TORP® Prosthesis

- Wedge-shaped head may be used when the malleus is not present or is extremely anteriorly rotated.
- Plasti-Pore® shaft is easily trimmed and is wire-reinforced for increased stability.
- A tissue graft over the oval window may be used when the stapes footplate is not present.

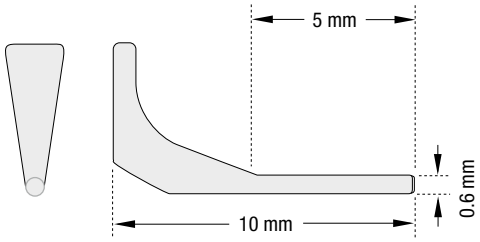
140917 Goldenberg TORP® prosthesis,
hydroxylapatite/Plasti-Pore®,
0.8 mm shaft diameter,
8 mm overall length



As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH, USA

Grote TORP® Prosthesis

70140992 Grote TORP® prosthesis,
hydroxylapatite,
5 mm handle length,
0.6 mm shaft diameter,
10 mm overall length

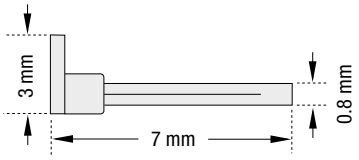


Designed for Jan J. Grote, M.D., Leiden, The Netherlands

McGee Malleable TORP® Prosthesis

- This updated off-centered variety of TORP® prosthesis utilizes a hydroxylapatite head and a Plasti-Pore® wire-reinforced shaft.
- This combination of materials provides an implant "head" produced from a highly biocompatible material and a malleable, easy-to-trim shaft.

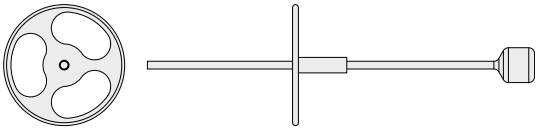
140897 McGee malleable TORP® prosthesis,
hydroxylapatite head, Plasti-Pore® shaft,
3 mm flange diameter,
0.8 mm shaft diameter,
2 mm trimmable length,
7 mm overall length



Developed in conmjunction with T. Manford McGee, M.D.,
Michigan Ear Institute, Detroit, MI, USA

Micron® Adjustable Titanium TORP® Prostheses

- The Micron® adjustable titanium TORP® features an open-head design for optimal visualization.
- Its adjustable nature allows for minimal stocking levels.

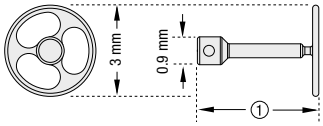


Micron® adjustable titanium TORP® prosthesis,
titanium,
2 – 10 mm,
70141044 centered
70141045 off-centered

70135802 May be used with above products:
Sizing block

Micron® All Titanium Monolithic TORP®

- The monolithic TORPs® come pre-sized so that the surgeon does not need to trim the prosthesis.
- Additionally, the open-head design allows optimal visualization.



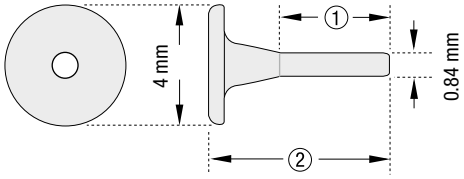
Micron® All Titanium Monolithic TORP®,
titanium,
0.9 mm round footplate (shoe diameter),
3 mm head diameter,
centered, tiltable head,

70142032	2 mm overall length ①
70142033	2.5 mm overall length ①
70142034	3 mm overall length ①
70142035	3.5 mm overall length ①
70142010	4 mm overall length ①
70142011	4.5 mm overall length ①
70142012	5 mm overall length ①
70142013	5.5 mm overall length ①
70142014	6 mm overall length ①
70142015	6.5 mm overall length ①
70142016	7 mm overall length ①
70142017	7.5 mm overall length ①
70142018	8 mm overall length ①

Micron® All Titanium Monolithic TORP®,
titanium,
0.9 mm round footplate (shoe diameter),
3 mm head diameter,
off-centered, tiltable head,

70142019	4 mm overall length ①
70142020	4.5 mm overall length ①
70142021	5 mm overall length ①
70142022	5.5 mm overall length ①
70142023	6 mm overall length ①
70142024	6.5 mm overall length ①
70142025	7 mm overall length ①
70142026	7.5 mm overall length ①
70142027	8 mm overall length ①

Richards Centered TORP® Prostheses

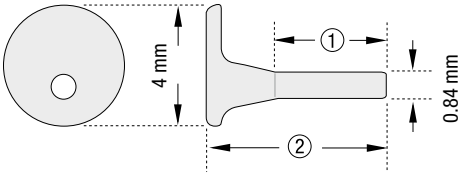


Richards centered TORP® prosthesis,
hydroxylapatite,
4 mm flange diameter,
0.84 mm shaft diameter,
4 mm head width,

140886	① = 1.65 mm, ② = 4 mm
140887	① = 3.67 mm, ② = 6 mm
140888	① = 5.7 mm, ② = 8 mm

①: trimmable length
②: overall length

Richards Off-Centered TORP® Prostheses



Richards off-centered TORP® prosthesis,
hydroxylapatite,
4 mm flange diameter,
0.84 mm shaft diameter,
4 mm head width,

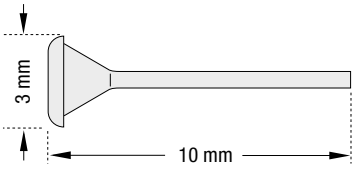
140889	① = 1.65 mm, ② = 4 mm
140890	① = 3.67 mm, ② = 6 mm
140891	① = 5.7 mm, ② = 8 mm

①: trimmable length
②: overall length

Shea HA/FP TORP® Prosthesis

- Designed to minimize extrusion by rounding edges of hydroxylapatite head.
- Easily trimmable fluoroplastic shaft reduces O.R. inventory needs.

140961 Shea HA/FP TORP® prosthesis,
hydroxylapatite head, fluoroplastic shaft,
3 mm head diameter,
10 mm overall length,
trimmable

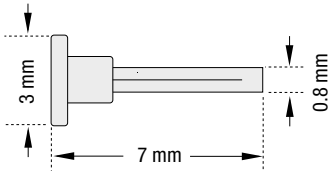


Developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Shea Malleable TORP® Prosthesis

- This Shea TORP® prosthesis utilizes a hydroxylapatite head and a Plasti-Pore® wire-reinforced shaft.
- This combination of materials provides an implant "head" produced from a highly biocompatible material and a malleable, easy-to-trim shaft.

140894 Shea malleable TORP® prosthesis,
hydroxylapatite head, Plasti-Pore® shaft,
3 mm flange diameter,
0.8 mm shaft diameter,
7 mm overall length,

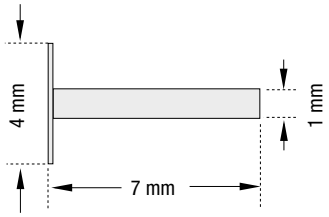


As developed in conjunction with John J. Shea, M.D., Memphis, TN, USA

Shea TORP® Prosthesis

- A solid fluoroplastic shaft may be desired in those ears with only a small piece of living membrane vestibule exposed, or in those ears with obliterative otosclerosis in which the prosthesis is placed into the small oval window opening created without an interposed tissue graft.
- Flange is made of Plasti-Pore® material, which invites tissue ingrowth.

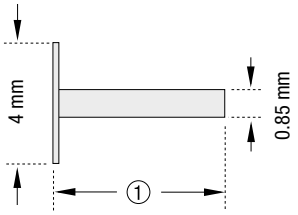
140003 Shea TORP® prosthesis,
Plasti-Pore® head, fluoroplastic shaft,
4 mm flange diameter,
1 mm shaft diameter,
7 mm overall length



Designed for John J. Shea, M.D., Memphis, TN, USA

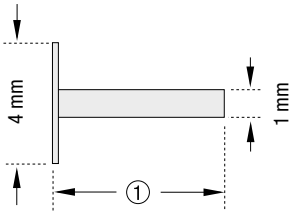
Shea TORP® Prostheses

- The Shea TORP® prosthesis is a white porous plastic columella made of Plasti-Pore® material, a high-density polyethylene which is well tolerated in the body as an implant.
- Designed to replace the entire ossicular chain, the prosthesis is placed from the oval window to the drum.
- The shaft of the prosthesis can be angulated and can be cut off to the proper length by the surgeon.
- Broad-faced thinned surface resists tilting, and distributes pressure over a large drum area.
- Tissue grows into the end of the shaft to secure it to the footplate or other oval window seal. The shaft end may be cut by the surgeon to the desired length.



Shea TORP® prosthesis,
Plasti-Pore®,
4 mm flange diameter,
0.25 mm flange thickness,
0.85 mm shaft diameter,

140901 4 mm overall length ①
140902 5 mm overall length ①
140903 6 mm overall length ①
140904 7 mm overall length ①
140905 8 mm overall length ①



Shea TORP® prosthesis,
Plasti-Pore®,
4 mm flange diameter,
0.25 mm flange thickness,
1 mm shaft diameter,

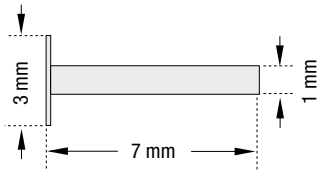
140907 4 mm overall length ①
140908 5 mm overall length ①
140909 6 mm overall length ①
140058 7 mm overall length ①
140911 8 mm overall length ①

Designed for John J. Shea, M.D., Memphis, TN, USA

Sheehy Modified TORP® Prosthesis

- Designed to replace the entire ossicular chain, the Sheehy modified TORP® prosthesis features a smaller diameter flange than does the standard TORP® prosthesis.
- Some practitioners find that the use of tragal cartilage between the flange of the prosthesis and tympanic membrane has diminished the necessity for the larger diameter flange.
- The entire TORP® prosthesis is made of Plasti-Pore® material.
- The prosthesis shaft can be angulated and trimmed to the desired length.

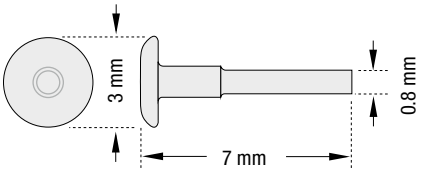
140089 Sheehy modified TORP® prosthesis,
Plasti-Pore®,
3 mm flange diameter,
1 mm shaft diameter,
7 mm overall length



Designed for James Sheehy, M.D., Los Angeles, CA, USA

Sheehy TORP® (Improved) Prosthesis

70140933 Sheehy TORP® (improved) prosthesis,
Plasti-Pore®,
3 mm head diameter,
0.8 mm shaft diameter,
7 mm overall length

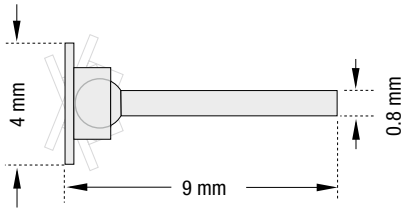


Designed for James Sheehy, M.D., Los Angeles, CA, USA

Tilt-Top TORP® Prosthesis

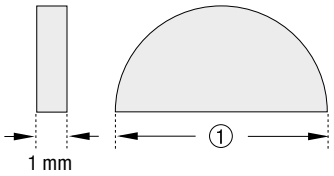
- The unique ball-and-socket of the tilt-top TORP® prosthesis allows the surgeon to precisely fit the flange to the underside of the tympanic membrane (using a cover of cartilage if desired) while maintaining a more correct anatomical relationship between the shaft of the prosthesis and the stapes footplate or the oval window.
- The positional variances in eardrum-oval window relationships that can occur from case to case are easily accommodated. The surgeon merely determines the best flange-to-shaft angle and rotates the flange into place.
- The prosthesis is inserted in the manner used with a regular TORP® prosthesis.

140915 Tilt-Top TORP® prosthesis,
Plasti-Pore®,
4 mm flange diameter,
0.8 mm shaft diameter,
9 mm overall length



Attic Defect Plates

- Designed to be used in reconstructing attic defects in cases of intact canal wall mastoidectomy.
- The semicircular implants are intended for use in sealing attic defects, and promoting complete obliteration of the site.
- Offered in 3 sizes, to accommodate individual patient needs.



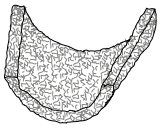
Attic defect plate,
porous hydroxylapatite,
1 mm thick,

140862	small, 7 mm diameter ①
140863	medium, 10 mm diameter ①
140864	large, 14 mm diameter ①

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.

Grote Canal Wall Prostheses

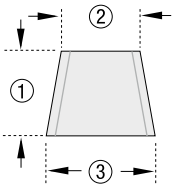
- The Grote canal wall prosthesis is designed for the reconstruction of the posterior bony ear canal wall.
- Available in three sizes to better fit individual patient needs.
- Can be shaped using an appropriate diamond burr and irrigation.



Grote canal wall prosthesis,
porous hydroxylapatite,

140866	small, 13 x 12 x 16 mm
140867	medium, 14 x 13 x 18 mm
140868	large, 16 x 15 x 20 mm

Dimensions: ① x ② x ③



Designed by Jan J. Grote, M.D., Leiden, The Netherlands.

Hydroxylapatite Granules

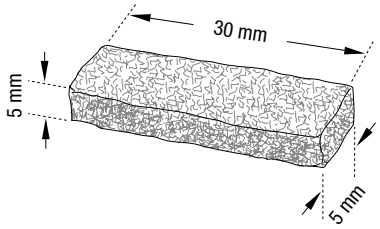
- Porous hydroxylapatite granules are small particle implants.
- Indicated for reconstruction of natural or surgically created defects of the mastoid. Rinsing with a sterile solution prior to insertion is recommended.
- The size of the prosthesis should be carefully assessed to ensure a proper fit. Once in position, the implant should be adequately covered with fascia or other material.

911101	Hydroxylapatite granules (not shown), porous hydroxylapatite, 0.5–1 mm size of granules, 3 pcs., sterile, single use

Porous Hydroxylapatite Reconstruction Blocks

- Porous hydroxylapatite implants for reconstruction of bony defects or augmentation of bony deficiencies.
- Made of highly biocompatible hydroxylapatite material, these blocks are useful in plastic surgery, and in oral and maxillofacial procedures where homograft and autograft bone is normally used.

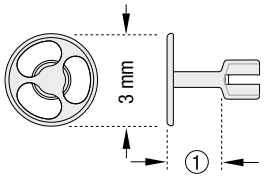
140871 Porous hydroxylapatite reconstruction block, small,
5 x 10 x 30 mm



Properties Pore size range 150–350 µm
Porosity range 15–30 %

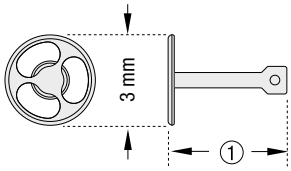
Measuring Trials

- Stainless steel
- Not for implantation
- Used for customized sizing



Ossicular replacement prosthesis measuring PORP® trials,

70131321	2 mm functional length ①
70131322	3 mm functional length ①
70131323	4 mm functional length ①



Ossicular replacement prosthesis measuring TORP® trials,

70131350	4 mm functional length ①
70131352	5 mm functional length ①
70131354	6 mm functional length ①
70131356	7 mm functional length ①

Ossicular replacement prosthesis measuring trials accessories (not shown):

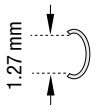
70135060	Sterilization case
70135801	Universal cutting block designed for use with HAPEX® shaft
70135802	Micron titanium adjustable sizing block

Williams Microclips

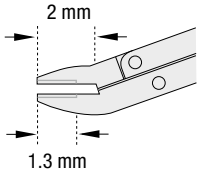
The Williams microclip offers another method for holding the tympanic graft securely in position.

- Reduces the possibility of dislodging the positioned anterior graft segment.
- Allows the surgeon to fasten down the graft in stages, one area at a time.
- Assures the surgeon that the graft remains securely in position even when visibility is obscured during placement of packing material.

145285 Microclip,
stainless steel,
1.27 mm inner diameter,
0.13 mm wire diameter,
sterile, single use,
3 pcs.



130830 Microclip inserter,
stainless steel,
1.27 mm serrated jaws



Designed for J. David Williams, M.D., Anchorage, Alaska, USA

OtoMimix®

- First hydroxylapatite bone cement indicated for middle ear use.
- OtoMimix® bridges the gap for incudostapedial joint discontinuity as well as offering stability with preformed prostheses.
- Designed specifically for Otolaryngologists, OtoMimix® is comprised of both a powder and liquid component that form a working paste when mixed together.
- The powder component is a hydroxylapatite (HA) based mixture of tetracalcium phosphate and the liquid component is a dilute citric acid.

7014-3266 OtoMimix®,
2 g



Indications for Use

- Augmentation or coupling of the middle ear ossicles
- Attachment of the middle ear ossicles to middle ear implants
- Mechanical stabilization of middle ear prostheses
- Reconstruction of the posterior canal wall

130725 Rosen needles,
sharp,
6 pcs.

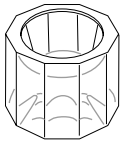


130726 Rosen needles,
dull,
6 pcs.



Bowls

813505 Glass medicine cups,
coloured,
5 pcs.



OLYMPUS

Your Vision, Our Future

Stapedectomy/Stapedotomy

Pistons
Stapes Prostheses 479

SMart Pistons
Stapes Prostheses 485

Loops
Stapes Prostheses 487

Malleus Attached Pistons
Stapes Prostheses 489

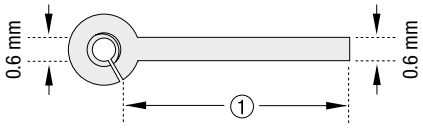
Bucket Handle Prostheses 491

Shea Cup Pistons
Stapes Prostheses 493

Causse Piston

Loop is expanded with a pick to slip over the incus with smooth jaw alligator forceps. “Plastic memory” provides secure closure.

140457 Causse piston,
fluoroplastic,
0.4 mm piston diameter,
0.6 mm loop inner diameter,
6 mm functional length

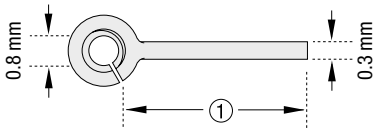


Developed with Jean-Bernard Causse, M.D., Béziers, France

Cawthorne Pistons

Incus attachment with a very slim 0.3 mm (0.012") diameter shaft.

Cawthorne piston,
fluoroplastic,
0.3 mm piston diameter,
0.8 mm loop inner diameter,
140266-ENT 4.5 mm functional length ①
140268-ENT 5 mm functional length ①

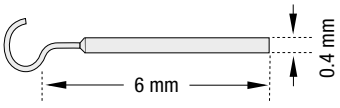


Designed for Sir Terrence Cawthorne, London, England

Fisch-Type Pistons

This adaptation of the piston prosthesis is designed for small fenestra techniques. The piston is available in a 6 mm length which can be conveniently trimmed to 3.5 mm using a sharp knife.

Fisch-type piston,
0.4 mm piston diameter,
6 mm functional length,
140443 platinum ribbon/fluoroplastic
140444 stainless steel/fluoroplastic

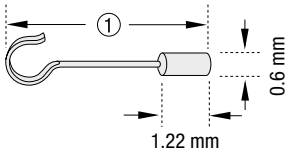


Designed for Ugo Fisch, M.D., Zürich, Switzerland

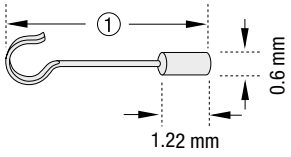
De La Cruz Pistons

Shortened fluoroplastic shaft offers improved visibility during placement.

De La Cruz piston,
platinum ribbon/fluoroplastic shaft,
0.6 mm piston diameter,
70140730 3.5 mm piston length ①
70140731 3.75 mm piston length ①
70140732 4 mm piston length ①
70140733 4.25 mm piston length ①
70140734 4.5 mm piston length ①
70140735 4.75 mm piston length ①
70140736 5 mm piston length ①



De La Cruz piston,
stainless steel/fluoroplastic shaft,
0.6 mm piston diameter,
70140727 4 mm piston length ①
70140728 4.25 mm piston length ①
70140729 4.5 mm piston length ①



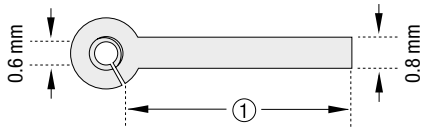
Designed for Antonio De La Cruz, M.D., Los Angeles, CA, USA

Fluoroplastic Pistons

Loop is expanded with a pick to slip over the incus with smooth jaw alligator forceps. “Plastic memory” provides secure closure.

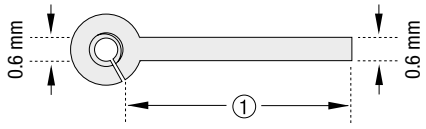
Fluoroplastic piston,
0.6 mm piston diameter,
0.6 mm loop inner diameter,

140074 3.5 mm functional length ①
140076 4 mm functional length ①
140078 4.5 mm functional length ①
140080 5 mm functional length ①
140082 6 mm functional length ①

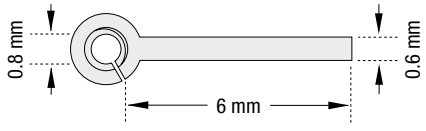


Fluoroplastic piston,
0.8 mm piston diameter,
0.6 mm loop inner diameter,

140066 4 mm functional length ①
140068 4.5 mm functional length ①
140070 5 mm functional length ①
140072 6 mm functional length ①



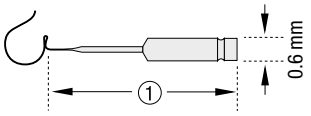
140456 Fluoroplastic piston,
0.6 mm piston diameter,
0.8 mm loop inner diameter,
6 mm functional length



Mangham Pistons

The unique crimp in the wire loop coupled with the shepherd crook assists the surgeon in positioning and crimping the prosthesis onto the incus. 0.5 mm hash mark assists in proper seating into stapedotomy.

Mangham piston,
fluoroplastic/platinum,
0.6 mm piston diameter,



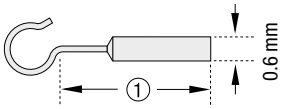
70145953 5 mm functional length ①
70145950 4 mm functional length ①
70145951 4.25 mm functional length ①
70145952 4.5 mm functional length ①

Designed by Charles Mangham, M.D., Seattle, WA, USA

Mass. Eye and Ear Pistons

The round platinum shaft may be easily angulated. The flat ribbon crook maximizes surface contact with the incus while minimizing the chance of pressure necrosis of the long process.

Mass. Eye and Ear piston,
fluoroplastic/platinum,
0.6 mm piston diameter,



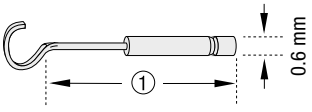
70140799 4 mm functional length ①
70140801 4.25 mm functional length ①
70140798 4.5 mm functional length ①

Designed by Michael J. McKenna, M.D., and Joseph B. Nadol, Jr., M.D., Boston, MA, USA

Pistons
Stapes Prostheses (cont.)

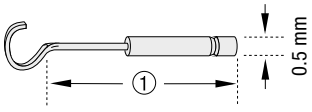
McGee Pistons

The McGee Piston features a platinum ribbon loop attached to a stainless steel piston. Platinum offers good tissue tolerance and is easier to bend into shape. In its flattened form, it permits a greater area of surface contact with the incus, lessening the opportunity for pressure necrosis.
Each piston also includes a 0.5 mm depth groove to assist in visualization of footplate penetration. This groove is clearly visible at virtually any angle.
A choice of piston diameters is available.



McGee piston,
platinum/stainless steel,
0.5 mm piston diameter,

140336	3.75 mm functional length ①
140337	4 mm functional length ①
140338	4.25 mm functional length ①
140339	4.5 mm functional length ①
140340	4.75 mm functional length ①
140341	5 mm functional length ①



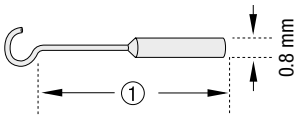
McGee piston,
platinum/stainless steel,
0.6 mm piston diameter,

140330	3.75 mm functional length ①
140331	4 mm functional length ①
140332	4.25 mm functional length ①
140333	4.5 mm functional length ①
140334	4.75 mm functional length ①
140335	5 mm functional length ①

Designed for T. Manford McGee, M.D., Detroit, MI, USA

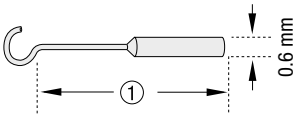
McGee Pistons

Use for obliterative otosclerosis and in cases where the prognosis is poor if the classical fat-wire technique is used.
One-piece construction.



McGee piston,
stainless steel,
0.6 mm piston diameter,

140161	3.25 mm functional length ①
140162	3.5 mm functional length ①
140163	3.75 mm functional length ①
140164	4 mm functional length ①
140165	4.25 mm functional length ①
140166	4.5 mm functional length ①
140167	4.75 mm functional length ①
140168	5 mm functional length ①



McGee piston,
stainless steel,
0.8 mm piston diameter,

140143-ENT	3.75 mm functional length ①
140144-ENT	4 mm functional length ①
140145-ENT	4.25 mm functional length ①
140146-ENT	4.5 mm functional length ①
140147-ENT	4.75 mm functional length ①
140148-ENT	5 mm functional length ①
140149	5.25 mm functional length ①
140150-ENT	5.5 mm functional length ①

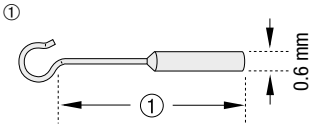
Designed for T. Manford McGee, M.D., Detroit, MI, USA

Richards Platinum Fluoroplastic Pistons

This design incorporates the popular fluoroplastic piston shaft with a platinum ribbon loop. Platinum is a well-tolerated, "obedient" metal that is easy to crimp with virtually no "spring-back." The loop is a flat cross-section (rather than round), providing a wide area of contact to discourage point necrosis and to provide superior purchase.

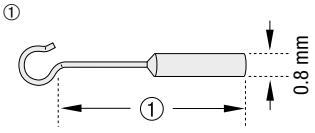
Platinum fluoroplastic piston,
0.4 mm piston diameter,

141812	3.5 mm functional length ①
141813	3.75 mm functional length ①
141814	4 mm functional length ①
141815	4.25 mm functional length ①
141816-ENT	4.5 mm functional length ①
141817-ENT	4.75 mm functional length ①



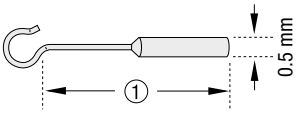
Platinum fluoroplastic piston,
0.5 mm piston diameter,

140813	3.75 mm functional length ①
140814	4 mm functional length ①
140815	4.25 mm functional length ①
140816	4.5 mm functional length ①
140817	4.75 mm functional length ①



Platinum fluoroplastic piston,
0.6 mm piston diameter,

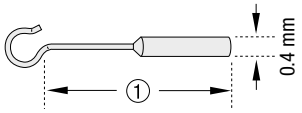
140781	3.5 mm functional length ①
140782	3.75 mm functional length ①
140783	4 mm functional length ①
140784	4.25 mm functional length ①
140785	4.5 mm functional length ①
140786	4.75 mm functional length ①
140787	5 mm functional length ①



Richards Platinum Fluoroplastic Pistons (cont.)

Platinum fluoroplastic piston,
0.8 mm piston diameter,

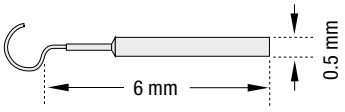
140790	3.5 mm functional length ①
140791	3.75 mm functional length ①
140792	4 mm functional length ①
140793	4.25 mm functional length ①
140794	4.5 mm functional length ①
140795	4.75 mm functional length ①
140796	5 mm functional length ①



Sanna Piston

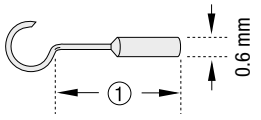
Trimmable to length.

70140797	Sanna piston, fluoroplastic/platinum, 0.5 mm piston diameter, 6 mm functional length



Scheer Pistons

Scheer piston,
stainless steel/fluoroplastic,
short, slim diameter piston,
0.6 mm piston diameter,



140226	3.33 mm functional length ①
140227	3.58 mm functional length ①
140228-ENT	3.83 mm functional length ①
140229-ENT	4.08 mm functional length ①
140230-ENT	4.33 mm functional length ①
140231	4.58 mm functional length ①

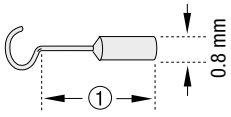
Designed for Alan Scheer, M.D., New York, NY, USA

Pistons
Stapes Prostheses (cont.)

Schuknecht Pistons

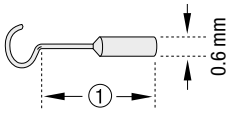
For incus attachment. Wire loop locks on long process of the incus. A graft may be placed around piston to seal the oval window.

Schuknecht piston,
stainless steel/fluoroplastic,
0.6 mm piston diameter,



140120	3 mm functional length ①
140121	3.25 mm functional length ①
140122	3.5 mm functional length ①
140123-ENT	3.75 mm functional length ①
140124-ENT	4 mm functional length ①
140125-ENT	4.25 mm functional length ①
140126-ENT	4.5 mm functional length ①
140127	4.75 mm functional length ①
140128	5 mm functional length ①
140129-ENT	5.25 mm functional length ①
140130-ENT	5.5 mm functional length ①
140131-ENT	5.75 mm functional length ①

Schuknecht piston,
stainless steel/fluoroplastic,
0.8 mm piston diameter,



140102	3.5 mm functional length ①
140103	3.75 mm functional length ①
140104	4 mm functional length ①
140105	4.25 mm functional length ①
140106	4.5 mm functional length ①
140107-ENT	4.75 mm functional length ①
140108	5 mm functional length ①
140110-ENT	5.5 mm functional length ①

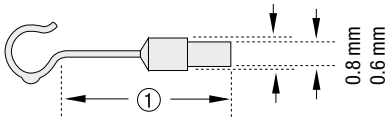
Designed by Harold F. Schuknecht, M.D., Boston, MA, USA

Velegrakis Pistons

The flattened tab on the loop enables easier grasping and positioning. The fluoroplastic shaft has two different diameters to enhance visualization and reduce the chance of the implant protruding into the vestibule.

Velegrakis piston,
platinum/fluoroplastic,
dual diameter 0.8 to 0.6 mm,

70140392	4.25 mm functional length ①
70140393	4.5 functional length ①



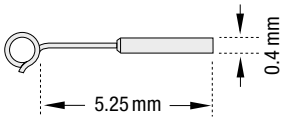
Developed with George Velegrakis, M.D., Heraklion Crete, Greece.

SMart Pistons

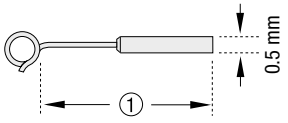
Stapes Prostheses

SMart 360 Pistons

The SMart 360 piston is a completely encircling piston containing heat activated nitinol. MR conditional to 3T. Data on file.

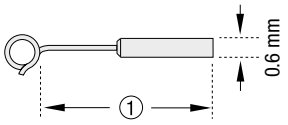


70143645 SMart 360 piston, nitinol/fluoroplastic, 0.4 mm piston diameter, 5.25 mm functional length



SMart 360 piston, nitinol/fluoroplastic, 0.5 mm piston diameter,

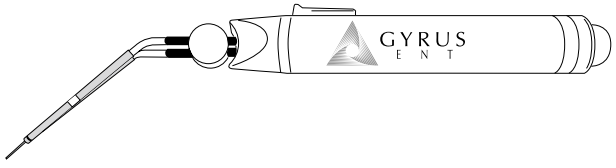
70143652 4.25 mm functional length ①
70143655 4.50 mm functional length ①
70143657 4.75 mm functional length ①



SMart 360 piston, nitinol/fluoroplastic, 0.6 mm piston diameter,

70143662 4.25 mm functional length ①
70143665 4.50 mm functional length ①
70143667 4.75 mm functional length ①

SMart Piston Heating Device

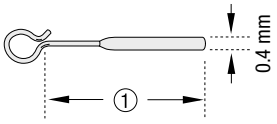


70131012 SMart thermal handle, with AA battery

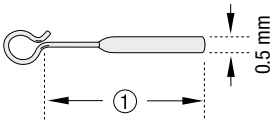
70131013 SMart thermal tip and drape, 6 pcs.

SMart Pistons

For incus attachment. Piston wire safely and securely fashions itself around the long process when heat is applied, minimizing the potential for under-crimping or over-crimping.

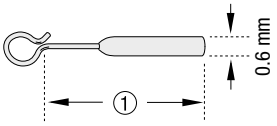


70142168 SMart piston, nitinol/fluoroplastic, 0.4 mm piston diameter, 3.5 – 5.25 mm functional length ①, trimmable



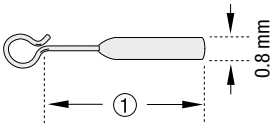
SMart piston, nitinol/fluoroplastic, 0.5 mm piston diameter,

70145920 3.75 mm functional length ①
70145921 4 mm functional length ①
70145922 4.25 mm functional length ①
70145923 4.50 mm functional length ①
70145924 4.75 mm functional length ①



SMart piston, nitinol/fluoroplastic, 0.6 mm piston diameter,

70145925 3.75 mm functional length ①
70145926 4 mm functional length ①
70145927 4.25 mm functional length ①
70145928 4.50 mm functional length ①
70145929 4.75 mm functional length ①



SMart piston, nitinol/fluoroplastic, 0.8 mm piston diameter,

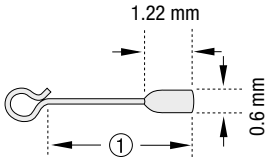
70145930 3.75 mm functional length ①
70145931 4 mm functional length ①
70145932 4.25 mm functional length ①
70145933 4.50 mm functional length ①
70145934 4.75 mm functional length ①

SMart De La Cruz Pistons

Shortened fluoroplastic shaft offers improved visibility during placement. Nitinol wire securely fashions around the incus when heat is applied.

SMart De La Cruz piston, nitinol/fluoroplastic, 0.6 mm piston diameter,

70142056	4 mm functional length ①
70142057	4.25 functional length ①
70142058	4.5 mm functional length ①
70142059	4.75 mm functional length ①

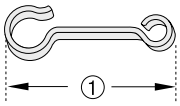


Designed for Antonio De La Cruz, M.D., Los Angeles, CA, USA

Platinum Ribbon Loops

Platinum is well-tolerated by tissue. It is exceptionally malleable, retaining its formed shape without "spring-back". Flattened band or "ribbon" permits a greater area contact point on the long process of the incus, lessening the possibility of point necrosis. There is also a wider contact point where the "ribbon" touches the incus.

Platinum ribbon loop,
platinum,

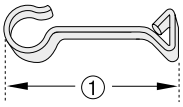


140703	4 mm overall length ①
140704	4.25 mm overall length ①
140705	4.5 mm overall length ①
140706	4.75 mm overall length ①
140707	5 mm overall length ①
140708	5.25 mm overall length ①

Trapeze Ribbon Loops

Wide, flat base of the "trapeze" at the distal end of the loop provides greater contact area for improved position at the oval window. Flattened band or "ribbon" permits a greater area of contact point on the long process of the incus, lessening the possibility of point necrosis. There is also a wider contact point where the "ribbon" touches the graft.

Trapez ribbon loop,
platinum,



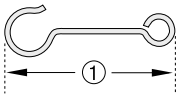
140743	4.5 mm overall length ①
140744	4.75 mm overall length ①
140745	5 mm overall length ①

Designed for David Austin, M.D., Twin Falls, ID, USA

Tantalum Wire Loops

A House-type wire loop made of tantalum, accepted for its property of being medically inert and its malleability, which permits a secure closing of the loop.

Tantalum wire loop,
tantalum,
0.13 mm wire diameter,

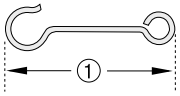


140721	4 mm overall length ①
140722	4.25 mm overall length ①

House-Type Wire Loops

For incus attachment.

House-type wire loop,
stainless steel,
0.13 mm wire diameter,



140180	3 mm overall length ①
140181	3.25 mm overall length ①
140183	3.75 mm overall length ①
140184	4 mm overall length ①
140185	4.25 mm overall length ①
140186	4.5 mm overall length ①
140187	4.75 mm overall length ①
140188	5 mm overall length ①
140189	5.25 mm overall length ①
140191	5.75 mm overall length ①

Designed by Howard P. House, M.D., Los Angeles, CA, USA

Malleus Attached Pistons

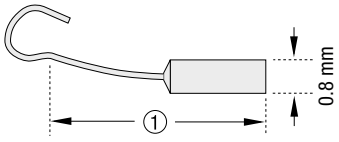
Stapes Prostheses

Schuknecht Malleus Attached Pistons

Large, open hook for easy attachment
Long curved wire for better angulation to oval window
Available in two piston diameters.

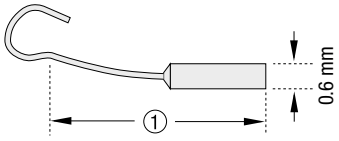
Schuknecht malleus attached piston,
stainless steel/fluoroplastic,
0.6 mm piston diameter,

140135-ENT 5.5 mm functional length ①
140136-ENT 5.75 mm functional length ①
140132-ENT 6 mm functional length ①



Schuknecht malleus attached piston,
stainless steel/fluoroplastic,
0.8 mm piston diameter,

140115-ENT 5.5 mm functional length ①
140116 5.75 mm functional length ①
140112-ENT 6 mm functional length ①
140113-ENT 6.25 mm functional length ①
140114-ENT 6.5 mm functional length ①



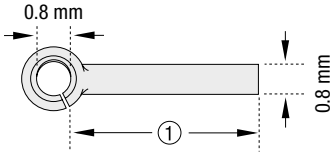
Designed by Harold F. Schuknecht, M.D., Boston, MA, USA

Shea Malleus Attachment Pistons

This fluoroplastic piston has a large loop inner diameter to fit the incus. Opens with a pick for attachment; “plastic memory” provides secure closure.

Shea malleus attachment piston,
fluoroplastic,
0.8 mm piston diameter,
0.8 mm loop inner diameter,

140432 4.5 mm functional length ①
140434 5 mm functional length ①

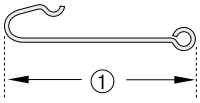


Designed for John J. Shea, M.D., Memphis, TN, USA

Sheehy-Type Incus Replacement Struts

For malleus attachment using standard graft procedure in oval window.

Sheehy-type incus replacement struts,
stainless steel,
0.13 mm wire diameter,

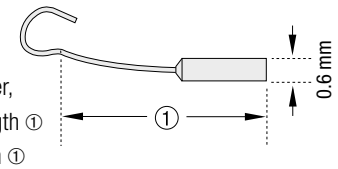


140458 5 mm overall length ①
140460 5.5 mm overall length ①
140461 5.75 mm overall length ①
140462 6 mm overall length ①
140464 6.5 mm overall length ①
140465 6.75 mm overall length ①

Designed for James L. Sheehy, M.D., andW. Hugh Powers, M.D., Los Angeles, CA., USA

SMart Malleus

For Stapes revisions. Piston wire securely fashions itself around the malleus, minimizing the potential for over-crimping or under-crimping.

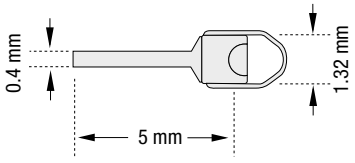


	SMart malleus, fluoroplastic/nitinol, 0.6 mm piston diameter,
70142037	5.5 mm functional length ①
70142038	6 mm functional length ①
70142039	6.5 mm functional length ①

Bucket Handle Prostheses

Causse Bucket Handle Prosthesis

70142140 Causse bucket handle prosthesis,
fluoroplastic,
0.4 mm piston diameter,
1.32 mm well diameter,
5 mm functional length



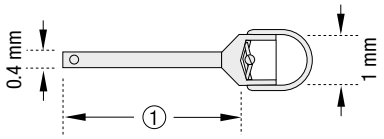
Developed with Jean-Bernard Causse, M.D., Béziers, France

Lippy Modified Stapes Prostheses

Designed to be used when the lenticular process of the incus is missing. This modified prosthesis has a portion of the well removed, allowing the eroded long process to enter from the side.

Lippy modified stapes prosthesis,
titanium,
0.4 mm piston diameter,
1 mm well diameter,

70142154 3.65 mm functional length ①
70142155 4.15 mm functional length ①
70142156 4.65 mm functional length ①
70142157 5.15 mm functional length ①



Designed by William N. Lippy, M.D., Warren, OH, USA

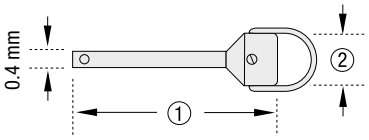
Classic Stapes Prostheses

Equivalent to basic “Robinson”-type design.

① functional length
② well diameter

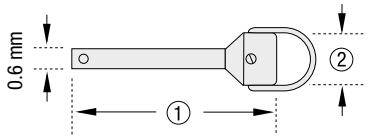
Classic stapes prosthesis,
titanium,
0.4 mm piston diameter,

70142141 4 mm ①, 1 mm ②
70142142 4 mm ①, 0.9 mm ②
70142145 4.5 mm ①, 1 mm ②
70142146 4.5 mm ①, 0.9 mm ②
70142150 5 mm ①, 1 mm ②
70142151 5 mm ①, 0.9 mm ②



Classic stapes prosthesis,
titanium,
0.6 mm piston diameter,

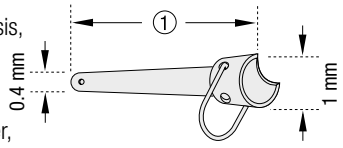
70142143 4 mm ①, 1 mm ②
70142144 4 mm ①, 0.9 mm ②
70142148 4.25 mm ①, 0.9 mm ②
70142147 4.5 mm ①, 1 mm ②
70142149 4.5 mm ①, 0.9 mm ②
70142152 5 mm ①, 1 mm ②
70142153 5 mm ①, 0.9 mm ②



Richards Bucket Handle Titanium Prostheses

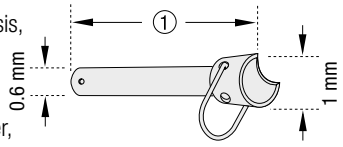
Titanium: A clinically proven piston design in a choice of well-tolerated material.
The opening in the "bucket" of the prosthesis is modified to allow the incus to assume its correct anatomical position minimizing the danger of pressure necrosis.
The bucket handle fits easily over the lenticular process eliminating any need for crimping and the postoperative chances of pressure necrosis.
The bucket handle prosthesis fits either the left or right ear. A hole in the posterior bucket allows for pick insertion to aid in positioning.
Two transaxial holes in the distal end of the prosthesis stem allow for tissue ingrowth to aid in the stabilization of the implant.

Bucket handle prosthesis, titanium, 1 mm well diameter, 0.4 mm piston diameter,



70142158	3.5 mm functional length ①
70142159	4 mm functional length ①
70142160	4.25 mm functional length ①
70142161	4.5 mm functional length ①
70142162	5 mm functional length ①

Bucket handle prosthesis, titanium, 1 mm well diameter, 0.6 mm piston diameter,

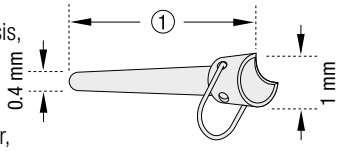


70142163	3.5 mm functional length ①
70142164	4 mm functional length ①
70142165	4.25 mm functional length ①
70142166	4.5 mm functional length ①
70142167	5 mm functional length ①

Richards Bucket Handle Fluoroplastic Prostheses

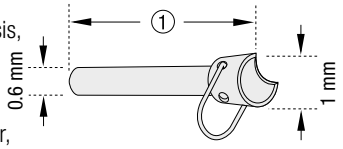
Fluoroplastic: A clinically proven piston design in a choice of well-tolerated material.
The opening of the "bucket" of the prosthesis is modified to allow the incus to assume its correct anatomical position minimizing the danger of pressure necrosis.
The bucket handle fits easily over the lenticular process eliminating any need for crimping and the postoperative chances of pressure necrosis.
The Bucket Handle Prosthesis fits either the left or right ear. A hole in the posterior bucket allows for pick insertion to aid in positioning.

Bucket handle prosthesis, fluoroplastic, 1 mm well diameter, 0.4 mm piston diameter,



142148	3.5 mm functional length ①
142150	4 mm functional length ①
142152	4.5 mm functional length ①
142154	5 mm functional length ①

Bucket handle prosthesis, fluoroplastic, 1 mm well diameter, 0.6 mm piston diameter,



142132	3.5 mm functional length ①
142134	4 mm functional length ①
142136	4.5 mm functional length ①
142138	5 mm functional length ①

Shea Cup Pistons

Stapes Prostheses

Shea Cup Pistons

Reconstructing the sound-conducting mechanism of the middle ear with this precisely engineered fluoroplastic piston closely approximates the natural configuration of the ossicular chain with stable implant attachment in both the vertical and horizontal planes.
The unique “cupped” head accepts the lenticular process of the incus, directing the piston shaft downward at the proper angle to the oval window.

Shea Cup Pistons from Platinum/Fluoroplastic
The platinum arms are preformed to easily slip over the incus, and may be locked in place using only one hand with closing forceps.
Fits either left or right ear.

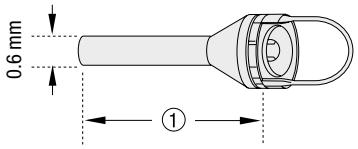
Shea Cup Pistons from Fluoroplastic
A special retaining loop behind the “cup” fits easily around the lower end of the incus to maintain the prosthesis securely in place.
Available for the left and for the right ear.

Designed for John J. Shea, M.D., Memphis, TN, USA

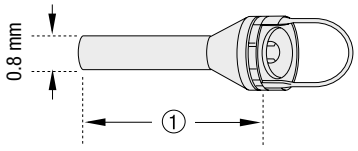
Shea Cup Pistons from Platinum/Fluoroplastic

Shea cup piston,
platinum/fluoroplastic,
0.6 mm piston diameter,

140635	3.75 mm functional length ①
140636	4 mm functional length ①
140637	4.25 mm functional length ①
140638	4.5 mm functional length ①
140639	4.75 mm functional length ①
140640	5 mm functional length ①



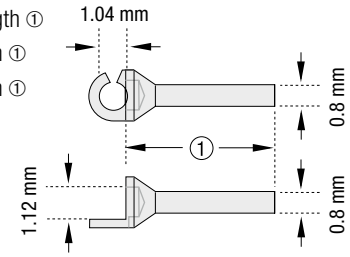
140648	Shea cup piston, platinum/fluoroplastic, 0.8 mm piston diameter, 5 mm functional length ①



Shea Cup Pistons from Fluoroplastic (Left)

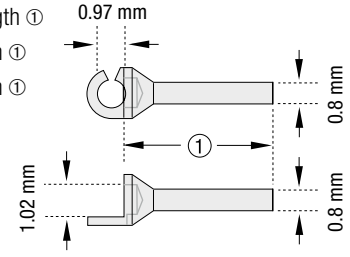
Shea cup piston,
for the left ear,
fluoroplastic,
0.8 mm piston diameter,
1.04 mm loop inner diameter,
1.12 mm cup inner diameter,

140415	4 mm functional length ①
140416	4.5 mm functional length ①
140417	5 mm functional length ①
140418	6 mm functional length ①



Shea cup piston,
for the left ear,
fluoroplastic,
0.8 mm piston diameter,
0.97 mm loop inner diameter,
1.02 mm cup inner diameter,

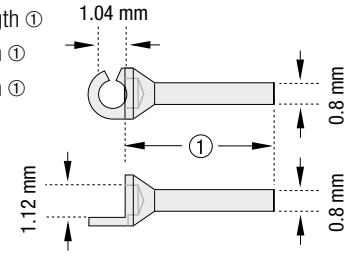
140410	4 mm functional length ①
140411	4.5 mm functional length ①
140412	5 mm functional length ①
140413	6 mm functional length ①



Shea Cup Pistons from Fluoroplastic (Right)

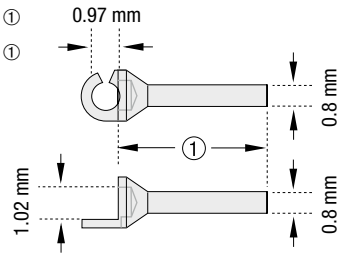
Shea cup piston,
for the right ear,
fluoroplastic,
0.8 mm piston diameter,
1.04 mm loop inner diameter,
1.12 mm cup inner diameter,

140425	4 mm functional length ①
140426	4.5 mm functional length ①
140427	5 mm functional length ①
140428	6 mm functional length ①



Shea cup piston,
for the right ear,
fluoroplastic,
0.8 mm piston diameter,
0.97 mm loop inner diameter,
1.02 mm cup inner diameter,

140420	4 mm functional length ①
140421	4.5 mm functional length ①
140422	5 mm functional length ①
140423	6 mm functional length ①



OLYMPUS

Your Vision, Our Future

Vocal Cord Medialization

VoCoM
Vocal Cord Medialization 497

VoCoM
Vocal Cord Medialization



The VoCoM vocal cord medialization system is a prefabricated implant system for unilateral vocal cord paralysis.
The VoCoM system consists of three elements.

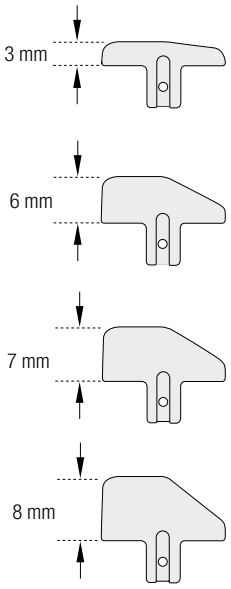
- Implants:
  Prefabricated hydroxylapatite,
  offering 3, 4, 5, 6, 7, or 8 mm displacement.

- Shims:
  Also from dense hydroxylapatite, allowing flexibility of implant positioning within the window.

- Instruments:
  Reusable patterns for window sizing, fenestra creation, implant selection, and implant insertion.

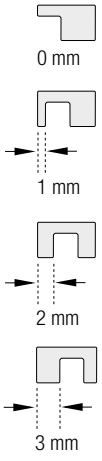
VoCoM Implants

	VoCoM implant, sterile, dense hydroxylapatite,
143000	3 mm height
143003	6 mm height
143008	7 mm height
70143019	8 mm height



VoCoM Shims

	VoCoM shim, sterile, dense hydroxylapatite,
143007	0 mm offset
143004	1 mm offset
143005	2 mm offset
143006	3 mm offset



VoCoM Instrument Set

According to Charles W. Cummings, M.D., Paul Flint, M.D., Charles Ford, M.D.

Delivery includes:
Sterilization case 134007 and one of each instruments 134000, 134001, 134002, 134003, 134004, 134005, 134008, 70134009, 70134011

134007	VoCoM instrument sterilization case (not shown)

VoCoM
Vocal Cord Medialization (cont.)

VoCoM Instruments

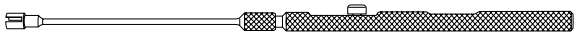
134004 Fenestra template, ebony finish



134005 Perichondrium elevator, overall length 187.5 mm, glass bead



70134009 Implant inserter, grip tip, matte finish



VoCoM Trials

134001 Trial, ebony finish, 4 mm



134002 Trial, ebony finish, 5 mm



134003 Trial, ebony finish, 6 mm



134008 Trial, ebony finish, 7 mm



70134011 Trial, ebony finish, 8 mm



VENTILATION TUBES

A 503

B, C 505

D, F, J 507

L, M 509

P 511

R 513

Sh 515

Sp–Su 517

T, V 519

MYRINGOTOMY ACCESSORIES

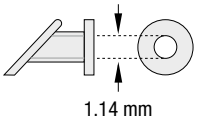
Tube Inserters
Myringotomy Kits and Suction Tubes 521

Myringotomy Knives
Handles and Blades 523

Myringotomy Knives
and Tympanoplasty Blades 525

Armstrong Beveled Grommets #1

- Beveled inner flange corresponds to the angle of the tympanic membrane.
- Resists premature extrusion.



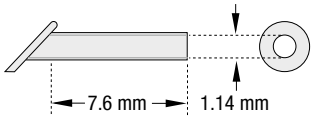
Armstrong beveled grommets #1,
1.14 mm inner diameter,

140242-ENT	fluoroplastic, 6 pcs.
145700	fluoroplastic, 60 pcs., in twin packs
70145061	blue fluoroplastic, 6 pcs.
70143061	blue fluoroplastic, 30 pcs.
70145761	blue fluoroplastic, 60 pcs., in twin packs
70140267	pc coated fluoroplastic, 6 pcs.
70143067	pc coated fluoroplastic, 30 pcs.
70146067	pc coated fluoroplastic, 60 pcs., in twin packs

Designed by B.W. Amstrong, M.D., Charlotte, NC, USA

Armstrong Beveled Plain End Ventilation Tubes

- Beveled inner flange corresponds to the angle of the tympanic membrane.
- Resists premature extrusion.



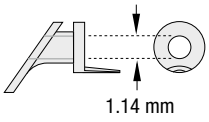
Armstrong beveled plain end ventilation tubes,
1.14 mm inner diameter,
7.6 mm length,

140244-ENT	fluoroplastic, 6 pcs.
145706	fluoroplastic, 60 pcs., in twin packs
240052	blue silicone, 6 pcs.
70241052	blue Ultrasil silicone, 6 pcs.
70140345	pc coated fluoroplastic, 6 pcs.
70140346	pc coated fluoroplastic, 30 pcs.
70140347	pc coated fluoroplastic, 60 pcs., in twin packs

Designed by B.W. Amstrong, M.D., Charlotte, NC, USA

Armstrong Beveled Grommets #2

- Beveled inner flange corresponds to the angle of the tympanic membrane.
- Resists premature extrusion.
- Tab permits easy removal.



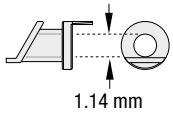
Armstrong beveled grommets #2,
with tab,
1.14 mm inner diameter,

240050	blue silicone, 6 pcs.
70241050	blue Ultrasil silicone, 6 pcs.
70241350	blue Ultrasil silicone, 30 pcs.
70245755	blue Ultrasil silicone, 60 pcs., in twin packs

Designed by B.W. Amstrong, M.D., Charlotte, NC, USA

Armstrong V Beveled Grommets

- The Armstrong V grouping of ventilation tubes provides easy insertion and clear visualization of the incision.
- All tubes are blue, in color, and are PacifiC coated to help prevent biofilm formation.



Armstrong V beveled grommets,
1.14 mm inner diameter,

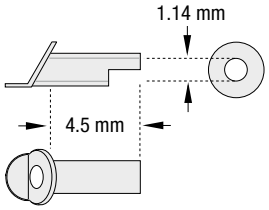
70140395	pc coated fluoroplastic, 6 pcs.
70140396	pc coated fluoroplastic, 30 pcs.
70140397	pc coated fluoroplastic, 60 pcs., in twin packs

Designed by B.W. Amstrong, M.D., Charlotte, NC, USA

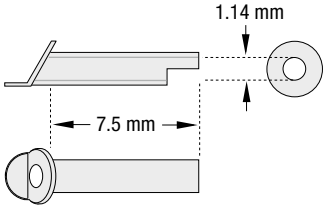
Armstrong V Straight Ventilation Tubes

- The Armstrong V grouping of ventilation tubes provides easy insertion and clear visualization of the incision.
- All tubes are blue, in color, and are PacifiC coated to help prevent biofilm formation.

Armstrong V straight ventilation tubes,
1.14 mm inner diameter,
4.5 mm length,
pc coated fluoroplastic,
70140398 6 pcs.



Armstrong V straight ventilation tubes,
1.14 mm inner diameter,
7.5 mm length,
pc coated fluoroplastic,
70140401 6 pcs.

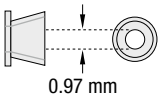


Designed by B.W. Amstrong, M.D., Charlotte, NC, USA

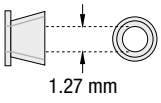
Baxter Beveled Bobbin

- Designed to enhance retention and aeration.
- The tapered lumen assists the surgeon in cleaning if necessary.

Baxter beveled bobbins,
0.97 mm inner diameter,
pc coated blue fluoroplastic,
70140271 6 pcs.



Baxter beveled bobbins,
1.27 mm inner diameter,
pc coated blue fluoroplastic,
70140270 6 pcs.
70140274 60 pcs., in twin packs



Designed by Dave Baxter, R.N., Boston, MA, USA

Berger "V" Bobbin Ventilation Tubes

- Designed to help reduce the possibility of lumen clogging.
- Hourglass-shaped lumen widens on both sides of the tympanic membrane to shorten the interflange dimension. This helps to reduce the accumulation of residual draining, minimizing the potential for lumen clogging.
- "V"-shape facilitates insertion. Features Gyrus ENT's exclusive MICRON finish.

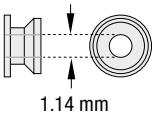
145282 Berger "V" Bobbin ventilation tubes,
1.27 mm inner diameter,
titanium,
6 pcs.



Designed by Eric S. Berger, M.D., Aberdeen, WA.
US Patent No. 4,080,171

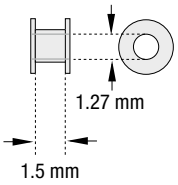
Bevel Bobbin Ventilation Tubes

70143257 Bevel Bobbin ventilation tubes,
1.14 mm inner diameter,
blue fluoroplastic,
6 pcs.



Collar Button Ventilation Tubes

- A “collar button” shaped ventilation tube for treatment of chronic, serious otitis media.

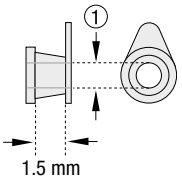


Collar button ventilation tubes,
1.27 mm inner diameter,
1.5 mm inner flange,

145214-ENT	fluoroplastic, 6 pcs.
145217-ENT	fluoroplastic, 6 pcs., with wire
145004-ENT	fluoroplastic, 30 pcs.
145705	fluoroplastic, 60 pcs., in twin packs
70145062	blue fluoroplastic, 6 pcs.
70145060	blue fluoroplastic, 60 pcs., in twin packs
70145314	pc coated fluoroplastic, 6 pcs.
70145316	pc coated fluoroplastic, 30 pcs.
70145317	pc coated fluoroplastic, 60 pcs., in twin packs
240014	blue silicone, 6 pcs.
70241014	blue Ultrasil silicone, 6 pcs.
70241314	blue Ultrasil silicone, 30 pcs.
70241060	blue Ultrasil silicone, 60 pcs., in twin packs

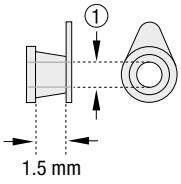
Collar Bobbin Ventilation Tubes

- Unique thicker collar permits grasping from different angles while the tapered lumen resists clogging with a minimal incision of the tympanic membrane.



Collar Bobbin ventilation tubes,
1.5 mm inner flange,
titanium,
6 pcs.,

145287	1.14 mm inner diameter ①
145297	1.27 mm inner diameter ①



Collar Bobbin ventilation tubes,
1.5 mm inner flange,
fluoroplastic,
6 pcs.,

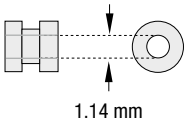
145288	0.75 mm inner diameter ①
145289	1.14 mm inner diameter ①
145298	1.27 mm inner diameter ①

Ventilation Tubes

D, F, J

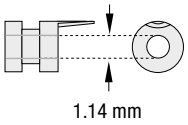
Donaldson Ventilation Tubes

- Flanges resist migration and extrusion.
- Large lumen promotes good ventilation.



Donaldson ventilation tubes,
1.14 mm inner diameter,

146043	fluoroplastic, 60 pcs.
240015	blue silicone, 6 pcs.
245702	blue silicone, 60 pcs., in twin packs
240060	blue soft silicone, 6 pcs.
70241015	blue Ultrasil silicone, 6 pcs.

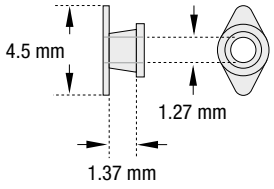


Donaldson ventilation tubes,
with tab,
1.14 mm inner diameter,

240016	blue silicone, 6 pcs.
70245012	blue silicone, 30 pcs.

DuraVent Tubes

- Designed for long-term ventilation, the DuraVent combines a tapered lumen for increased ventilation with thin tapered flanges providing reduced mass behind the tympanic membrane.
- The thin, collapsible flanges allow easier insertion and removal with no special instrumentation requirements.



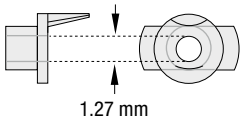
DuraVent tubes,
1.27 mm inner diameter,
1.37 mm inner flange,
4.5 mm width,

240075	blue silicone, 6 pcs.
245775	blue silicone, 60 pcs., in twin packs
70241075	blue Ultrasil silicone, 6 pcs.
70241375	blue Ultrasil silicone, 30 pcs.

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.

Dutcher Ventilation Tubes with Tab

70240054	Dutcher ventilation tubes, with tab, 1.27 mm inner diameter, 4.3 mm medial flange, 3 mm internal flange, blue Ultrasil silicone, 6 pcs.

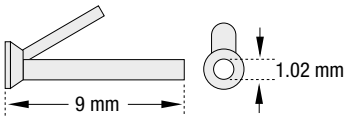


Designed for Paul Dutcher, M.D., Rochester, NY., USA

Feuerstein Split Ventilation Tube

- Resists both extrusion and migration.

140248-ENT Feuerstein split ventilation tube,
1.02 mm inner diameter,
9 mm length,
fluoroplastic,
6 pcs.

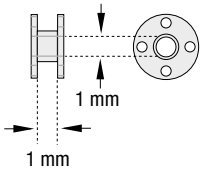


Designed for Sidney S. Feuerstein, M.D, New York, NY., USA

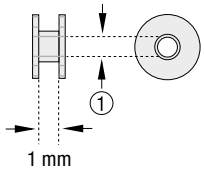
Fluoroplastic/Titanium Ventilation Tubes

- Combines the advantages of biocompatible titanium and "clog" resistant properties of fluoroplastic.
- The tube features a fluoroplastic lumen insert and medial flange resists clogging.
- Only titanium contacts the tympanic membrane.
- Ideal for long-term ventilation.

145220-ENT Fluoroplastic/titanium ventilation tubes,
1 mm inner flange,
1 mm inner diameter,
with flange holes,
fluoroplastic/titanium,
6 pcs.

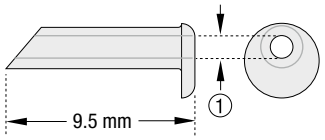


Fluoroplastic/titanium ventilation tubes,
1 mm inner flange,
fluoroplastic/titanium,
6 pcs.,
145271-ENT 1.27 mm inner diameter ①
145272-ENT 1.5 mm inner diameter ①



Jahn HydroxylVent Tubes

- Highly biocompatible dense hydroxylapatite tube designed for subannular placement.
- Intended for use only when long-term ventilation is indicated.



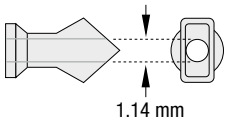
Jahn HydroxylVent tubes,
9.5 mm overall length,
hydroxylapatite,
6 pcs.,
140906 1 mm inner diameter ①
140926 1.27 mm inner diameter ①

Designed by Anthony F. Jahn, M.D., Newark, NJ., USA

Lindeman-Silverstein Arrow Ventilation Tube

- Designed to be rotated after insertion to lock in place.

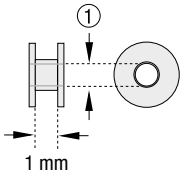
140240-ENT Lindeman-Silverstein arrow ventilation tube,
1.14 mm inner diameter,
fluoroplastic,
6 pcs.



Designed for Roger Lindeman, M.D., Seattle, WA and Herbert Silverstein, M.D., Sarasota, FL., USA

Micron Bobbin Ventilation Tubes

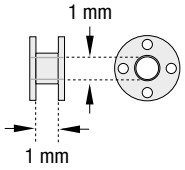
- Two standard bobbin designed titanium tubes featuring Gyrus ENT's exclusive MICRON finish that provides the necessary ultra-smoothness without the glare or reflection of ordinary polished finishes.
- The smooth finish of the lumen surface reduces the potential for clogging and unwanted tissue ingrowth.
- Design and biocompatibility of this tube make it well-suited for long-term ventilation.



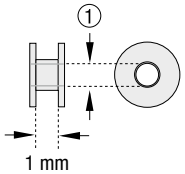
Micron Bobbin ventilation tubes,
no flange holes, titanium,
1 mm inner flange,
145221-ENT 0.76 mm inner diameter ①, 6 pcs.
145280-ENT 1 mm inner diameter ①, 6 pcs.
145279 1.14 mm inner diameter ①, 6 pcs.
145281-ENT 1.27 mm inner diameter ①, 6 pcs.
145781 1.27 mm inner diameter ①, 60 pcs., in twin packs

145273-ENT Micron Bobbin ventilation tubes (not shown),
with spoon flange,
1 mm inner flange,
1.27 mm inner diameter,
titanium, 6 pcs.

145215-ENT Micron Bobbin ventilation tubes,
1 mm inner flange,
1 mm inner diameter,
titanium, 6 pcs.,
with flange holes



70145381 Micron Bobbin ventilation tubes,
no flange holes,
blue titanium,
1 mm inner flange,
1.27 mm inner diameter, 6 pcs.

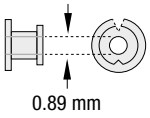


U.S. Patent No. 4,744,792

Mini-Reversible Ventilation Tube

- This ventilation tube is characterized by its reversible insertion feature. The tube is notched on both flanges, in a style similar to Paparella-type tubes, for atraumatic insertion.
- The small flange (1.78 mm) may be inserted in the tympanic membrane to encourage early extrusion.
- When longer term ventilation is desired, the larger flange (2.16 mm) may be inserted to help delay extrusion.
- Each "V" notch is positioned 180° from the other to help the surgeon conceptualize the location of the inserted flange and notch behind the tympanic membrane.

240042 Mini-reversible ventilation tube,
0.89 mm inner diameter,
silicone,
6 pcs.

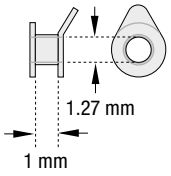


Designed for Burton J. Cohen, M.D., Louisville, KY., USA

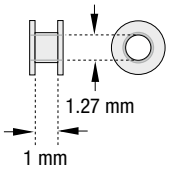
Moretz-Type Ventilation Tubes

- Familiar bobbin-style ventilation tube is enhanced with an angled lateral tab.
- The angled tab not only provides an improved grasp with alligator forceps, but also improved visualization during insertion procedure.

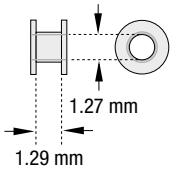
145265-ENT Moretz-type ventilation tubes,
angled tab,
1.27 mm inner diameter,
1 mm inner flange,
titanium, 6 pcs.



Moretz-type ventilation tubes,
1.27 mm inner diameter,
1 mm inner flange,
blue polyethylene,
70145498 6 pcs.



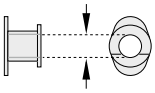
70142043 Moretz-type ventilation tubes,
1.27 mm inner diameter,
1.29 mm inner flange,
pc coated fluoroplastic,
6 pcs.



As developed by William Moretz, M.D., Augusta, GA., USA

Paparella 2000 Ventilation Tubes

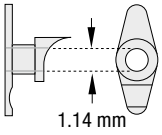
- This tube has been designed for moderate to long-term ventilation using the proven “T” flange.
- The lateral aspect of one of the medial wings has been notched to cradle the long arm of the malleus, giving the tube added stability and retention.
- The tabbed lateral flange helps in insertion and easy removal.
- The choice of silicone or soft silicone Ultrasil gives the surgeon more flexibility in choosing just the right tube.



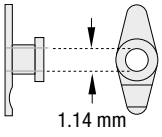
Paparella 2000 – Type 1 ventilation tubes,
without tab,
1.14 mm inner diameter,

70140257	blue soft silicone Ultrasil, 6 pcs.
70140357	blue soft silicone Ultrasil, 30 pcs.
70145757	blue soft silicone Ultrasil, 60 pcs., in twin packs

70140256	Paparella 2000 – Type 2 ventilation tubes, with tab, 1.14 mm inner diameter, blue soft silicone Ultrasil, with tab, 6 pcs.



	Paparella 2000 – Type 2 ventilation tubes, without tab, 1.14 mm inner diameter,
70241356	blue soft silicone Ultrasil, 30 pcs.

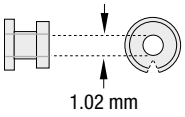


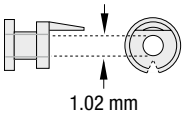
Designed for Michael Paparella, M.D., Minneapolis, MN., USA

Paparella-Type Ventilation Tubes, Type #1

- Notched inner flange for “twist-in” insertion.
- Very stable for long-term implantation.

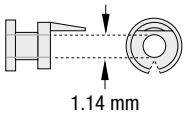
240043	Paparella-type – Type #1 ventilation tubes, without tab, 1.02 mm inner diameter, blue silicone, 6 pcs.





Paparella-type – Type #1 ventilation tubes,
with tab,
1.02 mm inner diameter,

140252-ENT	fluoroplastic, 6 pcs.
240044	blue silicone, 6 pcs.
70245016	blue silicone, 30 pcs.
245701	blue silicone, 60 pcs., in twin packs
240058	blue soft silicone, 6 pcs.
70241044	blue Ultrasil silicone, 6 pcs.
70241344	blue Ultrasil silicone, 30 pcs.

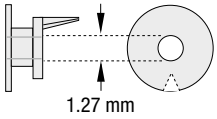


Paparella-type – Type #1 ventilation tubes,
with tab,
1.14 mm inner diameter,

70140280	blue silicone, 6 pcs.
70240280	blue Ultrasil silicone, 6 pcs.
70240281	blue Ultrasil silicone, 30 pcs.
70240282	blue Ultrasil silicone, 60 pcs., in twin packs
70140281	blue Ultrasil soft silicone, 6 pcs.
70241380	blue Ultrasil soft silicone, 30 pcs.
70245780	blue Ultrasil soft silicone, 60 pcs., in twin packs

Designed for Michael Paparella, M.D., Minneapolis, MN., USA

Paparella-Type Ventilation Tubes, Type #2



Paparella-type – Type #2 ventilation tubes,
with tab,
1.27 mm inner diameter,

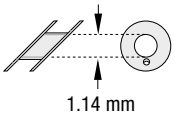
140254-ENT	fluoroplastic, 6 pcs.
240046	blue silicone, 6 pcs.
70243046	blue silicone, 30 pcs.
70241046	blue Ultrasil silicone, 6 pcs.

Designed for Michael Paparella, M.D., Minneapolis, MN., USA

Pope Beveled Grommet Ventilation Tubes

This ventilation tube offers advantages during insertion and for postoperative inspection.

- Easily introduced with alligator forceps, the grommet will pass through a very small speculum.
- The elongated flanges and length of the tube help to prevent premature extrusion. The 45° bevel on the flange approximates the angle of the tympanic membrane, allowing the physician to see straight through the lumen.
- Such problems as fluid reoccurrence and plugging of the lumen are easily recognized and corrected.
- The good visibility also makes postoperative evaluation of middle ear aeration much easier.



Pope beveled grommet ventilation tubes,
blue,
1.14 mm inner diameter,

145250-ENT	polyethylene, 6 pcs.
70143250	polyethylene, 30 pcs.
70145750	polyethylene, 60 pcs., in twin packs
70142047	PC fluoroplastic, 6 pcs.

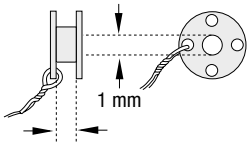
Designed for T.H. Pope, Indianapolis, IN., USA

Reuter Bobbin Ventilation Tubes

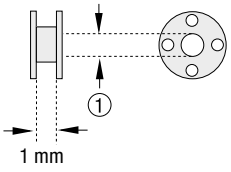
- The Reuter Bobbin Tube features a wide flange to help resist extrusion.
- Large lumen diameters for long-term ventilation available in various sizes, styles, and materials.

Designed for S. Harold Reuter, M.D., Houston, TX., USA

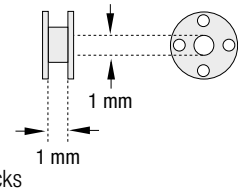
Reuter Bobbin Ventilation Tubes (Metal)



Reuter bobbin ventilation tubes,
with wire,
1 mm inner flange,
1 mm inner diameter,
145211-ENT stainless steel, 6 pcs.

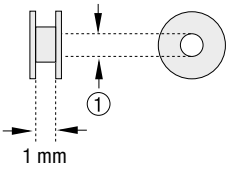


Reuter bobbin ventilation tubes,
1 mm inner flange,
stainless steel, 6 pcs.,
145208-ENT 1.14 mm inner diameter ①
145209-ENT 1.27 mm inner diameter ①

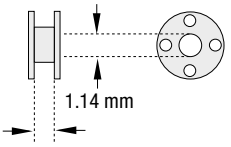


Reuter bobbin ventilation tubes,
1 mm inner flange,
1 mm inner diameter,
145210-ENT stainless steel, 6 pcs.
145701 stainless steel, 60 pcs., in twin packs
145218-ENT stainless steel (satin finish), 6 pcs.
145215-ENT titanium (Micron finish), 6 pcs.

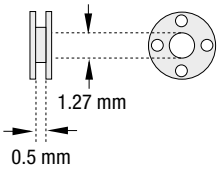
Reuter Bobbin Ventilation Tubes (Fluoroplastic)



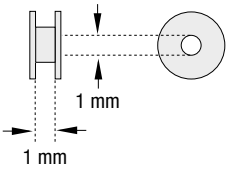
Reuter bobbin ventilation tubes,
without holes,
1 mm inner flange,
fluoroplastic, 6 pcs.,
145212-ENT 1 mm inner diameter ①
145213-ENT 1.14 mm inner diameter ①



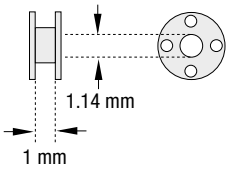
Reuter bobbin ventilation tubes,
1 mm inner flange,
1.14 mm inner diameter,
145225-ENT fluoroplastic, 6 pcs.
145019-ENT fluoroplastic, 30 pcs., without holes
145710 fluoroplastic, 60 pcs., in twin packs



145227-ENT Reuter bobbin ventilation tubes,
0.5 mm inner flange,
1.27 mm inner diameter,
fluoroplastic, 6 pcs.



Reuter bobbin ventilation tubes,
without holes,
1 mm inner flange,
1 mm inner diameter,
145709 fluoroplastic, 6 pcs.
70143255 blue fluoroplastic, 6 pcs.
70145319 pc coated fluoroplastic, 6 pcs.
70145320 pc coated fluoroplastic, 30 pcs.

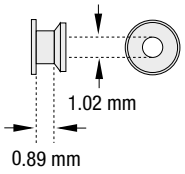


Reuter bobbin ventilation tubes,
1 mm inner flange,
1.14 mm inner diameter,
70145326 pc coated fluoroplastic, 6 pcs.
70145327 pc coated fluoroplastic, 30 pcs.
70145328 pc coated fluoroplastic, 60 pcs., in twin packs

Rock Pediatric Ventilation Tube

- A simple, short-term fluoroplastic “bobbin” tube for children.
- The larger flange 2.41 mm (0.095”) diameter is inserted through an incision in the tympanic membrane.

140086 Rock pediatric ventilation tube,
1.02 mm inner diameter,
0.89 mm inner flange,
fluoroplastic, 6 pcs.



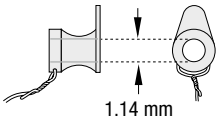
Designed for Erwin H. Rock, M.D., Yonkers, NY, USA

Shah Ventilation Tubes

- "Shoehorn" flange enables smaller incision and easy insertion.

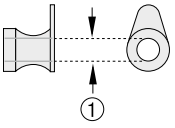
Shah ventilation tubes,
with wire,
1.14 mm inner diameter,

140005	fluoroplastic, 6 pcs.
145015-ENT	fluoroplastic, 30 pcs.



Shah ventilation tubes,
without wire,
fluoroplastic,

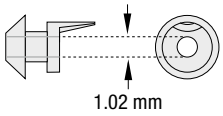
146044	1.14 mm inner diameter ①, 6 pcs.
145001-ENT	1.14 mm inner diameter ①, 30 pcs.
142230	0.76 mm inner diameter ①, 6 pcs.
145020	0.76 mm inner diameter ①, 30 pcs.



Designed for Mr. N. Shah, F.R.C.S., D.L.O., London, England.

Shea Parasol Ventilation Tubes

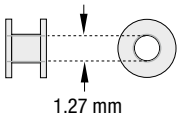
- Unique design of the collapsible "umbrella" allows easy insertion.
- The umbrella opens when placed through the incision.
- A simple pull on the removal tab inverts the umbrella for easy removal.



Shea parasol ventilation tubes,
with tab,
1.02 mm inner diameter,

240035	blue silicone, 6 pcs., small flange
240036	blue silicone, 6 pcs.
245703	blue silicone, 6 pcs., in twin packs
70241036	blue Ultrasil silicone, 6 pcs.

Sheehy Type Collar Button

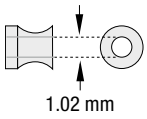


Sheehy type collar button,
1.27 mm inner diameter,

70145971	fluoroplastic, 6 pcs.
70143071	fluoroplastic, 30 pcs.
70145771	fluoroplastic, 60 pcs., in twin packs
70141080	pc coated fluoroplastic, 6 pcs.
70145780	pc coated fluoroplastic, 60 pcs., in twin packs
70245781	blue silicone, 6 pcs.
70245782	blue silicone, 60 pcs., in twin packs
70241000	blue Ultrasil silicone, 6 pcs.
70241001	blue Ultrasil silicone, 60 pcs., in twin packs

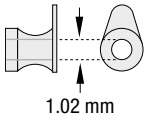
Shepard Grommet Ventilation Tubes (1.02 mm)

- Various styles, colors, and sizes available.
- All are easily inserted with forceps or tube inserter through incision in drum.



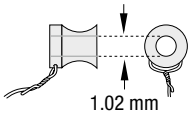
Shepard grommet ventilation tubes,
1.02 mm inner diameter,

140029	fluoroplastic, 6 pcs.
70141030	fluoroplastic, 6 pcs.
70141031	fluoroplastic, 30 pcs.
145002-ENT	fluoroplastic, 30 pcs.
145711	fluoroplastic, 60 pcs., in twin packs
70141032	fluoroplastic, 60 pcs., in twin packs
70241020	blue Ultrasil silicone, 6 pcs.



Shepard grommet ventilation tubes,
with tab,
1.02 mm inner diameter,

140007	fluoroplastic, 6 pcs.
240020	blue silicone, 6 pcs.
70245008	blue silicone, 30 pcs.

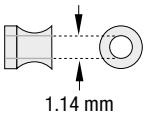


Shepard grommet ventilation tubes,
with wire,
1.02 mm inner diameter,

140028	fluoroplastic, 6 pcs.
145009	fluoroplastic, 30 pcs.
145702	fluoroplastic, 60 pcs., in twin packs

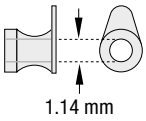
Shepard Grommet Ventilation Tubes (1.14 mm)

- Various styles, colors, and sizes available.
- All are easily inserted with forceps or tube inserter through incision in drum.



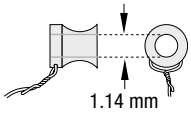
Shepard grommet ventilation tubes,
1.14 mm inner diameter,

140027	fluoroplastic, 6 pcs.
145003-ENT	fluoroplastic, 30 pcs.
70143256	blue fluoroplastic, 6 pcs.

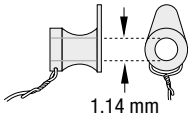


Shepard grommet ventilation tubes,
with tab,
1.14 mm inner diameter,

140008	fluoroplastic, 6 pcs.
146031	blue polyethylene, 6 pcs.



140030 Shepard grommet ventilation tubes,
with wire,
1.14 mm inner diameter,
fluoroplastic, 6 pcs.



Shepard grommet ventilation tubes,
fluoroplastic,
with tab and wire,
1.14 mm inner diameter,

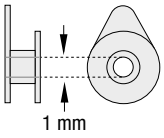
145010-ENT	fluoroplastic, 30 pcs.
146030	blue polyethylene, 6 pcs.

Designed for Marvin G. Shepard, M.D., Dallas, TX, USA

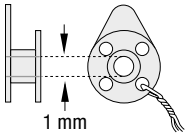
Spoon Bobbin Ventilation Tubes

- This is the popular bobbin-style ventilation tube with the addition of an insertion flange.
- The spoon-shaped flange, inserted through the incision first, eases introduction and positioning of the tube.

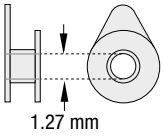
70145224 Spoon bobbin ventilation tubes,
without wire,
without holes,
1 mm inner diameter,
fluoroplastic, 12 pcs.



Spoon bobbin ventilation tubes,
1 mm inner diameter,
stainless steel, 6 pcs.,
145240-ENT without wire



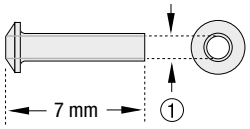
145273-ENT Spoon bobbin ventilation tubes,
with wire,
without holes,
1.27 mm inner diameter,
titanium, 6 pcs.



Designed for Baldev K. Devgan, M.D., Malibu, CA, USA

Straight Ventilation Tubes

- Small flange for easy insertion through small incision in the drum.
- May be cut to length.



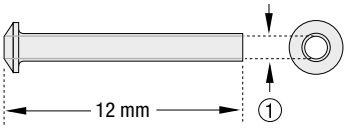
140016 Straight ventilation tubes,
0.86 mm inner diameter ①,
7 mm overall length,
clear polyethylene, 6 pcs.

Straight ventilation tubes,
0.89 mm inner diameter ①,
7 mm overall length,
140034 fluoroplastic, 6 pcs.
145707 fluoroplastic, 60 pcs., in twin packs
70141035 pc coated fluoroplastic, 6 pcs.
70141036 pc coated fluoroplastic, 30 pcs.

Straight ventilation tubes,
1.14 mm inner diameter ①,
7 mm overall length,
140035 fluoroplastic, 6 pcs.
145708 fluoroplastic, 60 pcs., in twin packs
70141039 pc coated fluoroplastic, 6 pcs.

12 mm Straight Ventilation Tubes

- Small flange for easy insertion through small incision in the drum.
- May be cut to length.

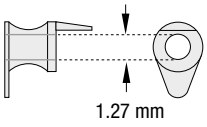


140032 Straight ventilation tubes,
0.89 mm inner diameter ①,
12 mm overall length,
fluoroplastic, 6 pcs.

140033 Straight ventilation tubes,
1.14 mm inner diameter ①,
12 mm overall length,
fluoroplastic, 6 pcs.

Sultan Ventilation Tubes

- "Shoehorn" flange permits easy insertion into a smaller incision.
- Integral tab for removal.

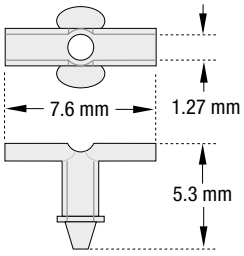


Sultan ventilation tubes,
with tab,
1.27 mm inner diameter,
145230-ENT fluoroplastic, 6 pcs.
145005-ENT fluoroplastic, 30 pcs.

Designed for Andre A. Sultan, M.D., France

T-Tubes, Butterfly

- This modified T-tube design is for the surgeon who prefers a grommet-style flange on the lateral end.
- The grommet is notched in a “butterfly” shape for added visibility during insertion.
- The flexible medial flanges are easily inserted through a small incision and permit long-term ventilation.
- The lumen features an 11% larger inner diameter than the standard T-Tube.

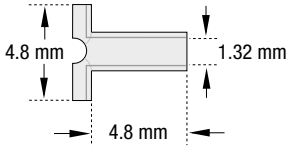


T-tubes, butterfly,
blue silicone,
1.27 inner diameter,

240073	blue silicone, 6 pcs.
70245018	blue silicone, 30 pcs.
70241073	blue Ultrasil silicone, 6 pcs.

T-Tubes, Modified

- This modification of the Gyrus ENT T-tube features shorter flanges to lessen the possibility of trauma to the tympanic membrane.
- Overall length is also reduced to eliminate need for trimming.
- The inner diameter has been increased to facilitate ventilation with less clogging.
- The outer diameter is the same as the original design.

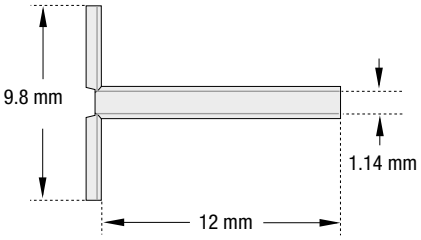


T-Tubes, modified,
1.32 mm inner diameter,

240072	blue silicone, 6 pcs.
70245017	blue silicone, 30 pcs.
245704	blue silicone, 60 pcs., in twin packs
240074	blue soft silicone, 6 pcs.
70241072	blue Ultrasil silicone, 6 pcs.

T-Tubes, Richards

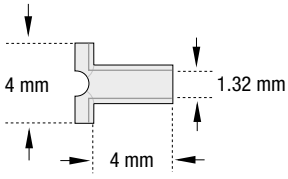
- Richards T-tubes offer the surgeon a long-term ventilation tube that is easily inserted through a smaller incision and is designed to remain firmly positioned in the tympanic membrane.
- Because the T-tube is designed with a long shaft and flexible flanges, it is easily extracted.
- The T-Tube is made of blue silicone and is easily trimmed to adapt to the surgeon‘s needs.



T-tubes, Richards,
1.14 mm inner diameter,

240071	blue silicone, 6 pcs.
70245014	blue silicone, 30 pcs.
245706	blue silicone, 60 pcs., in twin packs
240059	blue soft silicone, 6 pcs.
70241071	blue Ultrasil silicone, 6 pcs.

T-Tubes, Tiny



T-tubes, tiny,
1.32 mm inner diameter,

70240076	blue silicone, 6 pcs.
70241076	blue Ultrasil silicone, 6 pcs.

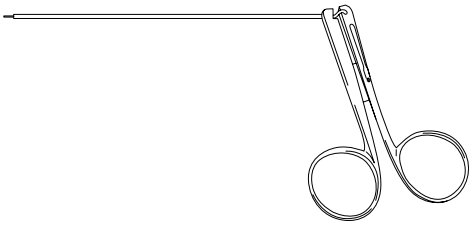
Tube Inserters

Myringotomy Kits and Suction Tubes

Morgan Ventilation Tube Inserters

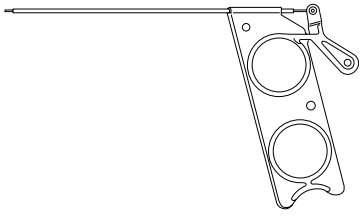
Morgan ventilation tube inserter,
stainless steel, vapor blast finish,
106 mm (4.2") shaft length,

130547 medium, 1 mm (0.04")



Ventilation Tube Inserter

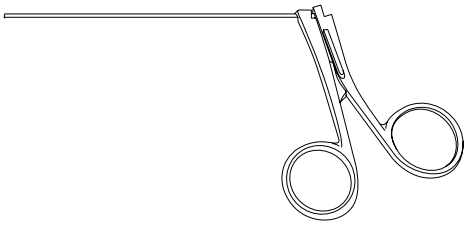
130710 Ventilation tube inserter,
polypropylene handle,
stainless steel shaft,
1.14 mm (0.45") inner diameter,
6 pcs.,
sterile, single-use



U.S. Patent No. 3,897,786

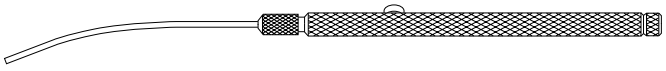
T-Tube Inserter

130549 T-tube inserter,
stainless steel, satin finish,
1.2 mm (0.047") shaft diameter,
96.5 mm (3.8") shaft length

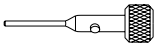


Universal T-Tube Inserter

130550 Universal T-tube inserter,
stainless steel, satin finish,
80 mm (3.15") shaft length,
200 mm (7.8") overall length



130551 Inserter stylus,
spare for 130550,
handle style round, knurled,
vapor blast finish,
11 mm (0.43") tip diameter,
26 mm (1.02") overall length

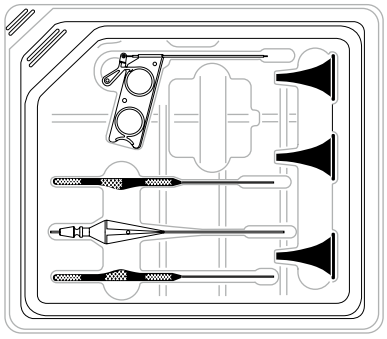


Set-Op Myringotomy Kit

Set-Op myringotomy kit,
sterile, single-use,

890205 for children (3, 4, and 5 mm specula)

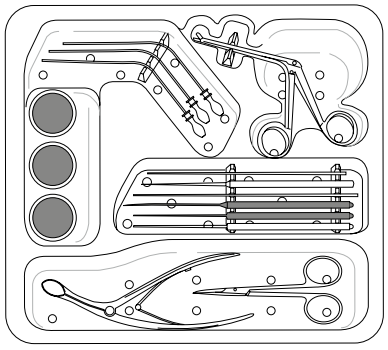
890206 for adults (4, 5 and 6 mm specula)



Delivery includes:
1 Billeau wax curette, 1 16 gauge suction needle with bypass,
1 myringotomy knife, sickle blade, contoured handle,
1 ventilation tube inserter (for 1.14 mm inner diameter tubes),
3 specula

Myringotomy Case

131413 Myringotomy case,
10" × 2.5" × 10.5",
indudes lid and finger mat,
empty case, instruments not included



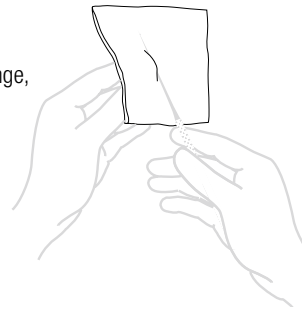
The case includes space for:
6 ear specula, 3 alligator forceps, 3 suction tubes, and
6 picks.
Large pocket to hold larger, miscellaneous instruments.

Micro-Instrument Wipes

Micro-Instrument wipes,
polyurethane ester foam,
3.5" × 3.5" nonfibrous sponge,
48 pcs.,

230030 sterile

70230034 non-sterile

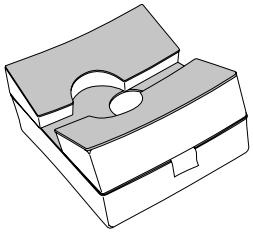


Shea Foam Head Supports

Shea foam head support,
nonsterile,

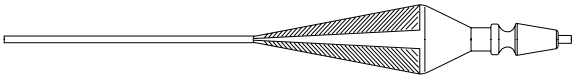
150179 for children

150180 for adults



Designed for John J. Shea, M.D.,
Memphis, TN, USA
U.S. Patent No. 3,694,831.

Disposable Ear Suction Tubes



Ear suction tubes,
polypropylene handles,
without bypass,
stainless steel shaft (3" long),
sterile, single-use, 6 pcs.,

130718 red, 14 (9 Fr.) gauge

130720 yellow, 16 (7 Fr.) gauge

130722 black, 18 (5 Fr.) gauge

130724 green, 20 (3 Fr.) gauge

Ear suction tubes,
polypropylene handles,
with bypass,
stainless steel shaft (3" long),
sterile, single-use, 6 pcs.,

130783 red, 14 (9 Fr.) gauge

130785 yellow, 16 (7 Fr.) gauge

130787 black, 18 (5 Fr.) gauge

130789 green, 20 (3 Fr.) gauge

U.S. Patent No. D234,032

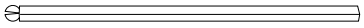
Myringotomy Knives

Handles and Blades

Blade Handles

For blades with a flat shaft

130882 Blade handle,
stainless steel,
nonsterile, reusable,
hexagonal wrench locking handle,
10 cm length



130883 Blade handle,
stainless steel,
nonsterile, reusable,
hexagonal wrench locking handle,
15 cm length



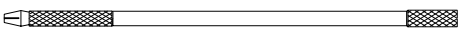
130884 Blade handle,
stainless steel,
nonsterile, reusable,
flat shaft blade handle,
10 cm length



130885 Blade handle,
stainless steel,
nonsterile, reusable,
round knurled wrench locking handle,
10 cm length

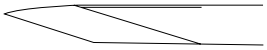


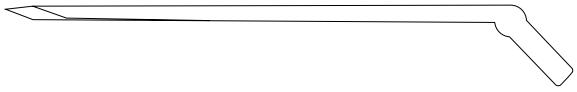
130886 Blade handle,
stainless steel,
nonsterile, reusable,
round, self-locking handle,
13.5 cm length



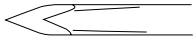
Myringotomy Blades with Flat Shaft

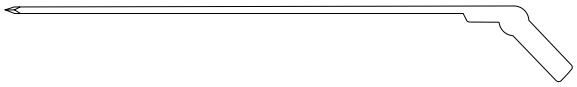
70130780 Myringotomy blades,
lancet tip,
flat shaft,
stainless steel,
sterile, 12 pcs.



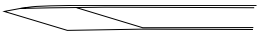


70130781 Myringotomy blades,
arrow tip,
flat shaft,
stainless steel,
sterile, 12 pcs.





70130933 Myringotomy blades,
lance juvenile,
flat shaft,
stainless steel,
sterile, 12 pcs.

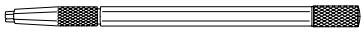




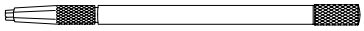
Blade Handles

For blades with a round shaft

70130932 Blade handle,
tapered,
stainless steel,
nonsterile, reusable,
10 cm length



70130934 Blade handle,
round,
stainless steel,
nonsterile, reusable,
10 cm length

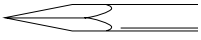


Myringotomy Blades with Round Shaft

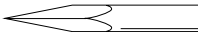
70130792 Myringotomy blades,
round shaft,
razor,
straight,
sterile, 12 pcs.



70130793 Myringotomy blades,
round shaft,
spear MicroPoint,
straight,
sterile, 12 pcs.



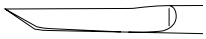
70130794 Myringotomy blades,
round shaft,
spear MicroPoint,
angled,
sterile, 12 pcs.

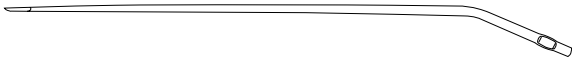




Myringotomy Blades with Tapered Shaft

70130927 Myringotomy blades,
tapered shaft, angled,
straight edge,
stainless steel,
sterile, 6 pcs.



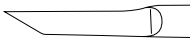


70130928 Myringotomy blades,
tapered shaft, angled,
straight edge,
stainless steel,
sterile, 6 pcs.





70130929 Myringotomy blades,
tapered shaft, straight,
straight edge,
stainless steel,
sterile, 6 pcs.



70130930 Myringotomy blades,
tapered shaft, angled,
spear tip,
stainless steel,
sterile, 6 pcs.





70130931 Myringotomy blades,
tapered shaft, straight,
spear tip,
stainless steel,
sterile, 6 pcs.



Myringotomy Knives
and Tympanoplasty Blades

Disposable Myringotomy Knives with Flat Handle

- Polypropylene handle
- Stainless steel shaft
- U.S. Patent No. D234,032

130715 Myringotomy knives, sickle blade, flat handle, sterile, single-use, 6 pcs.



130716 Myringotomy knives, lancet blade, flat handle, sterile, single-use, 6 pcs.



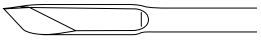
Disposable Myringotomy Knives with Round Handle

130915 Myringotomy knives, sickle blade, round handle, sterile, single-use, 6 pcs.





130916 Myringotomy knives, lancet blade, round handle, sterile, single-use, 6 pcs.



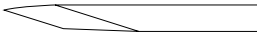


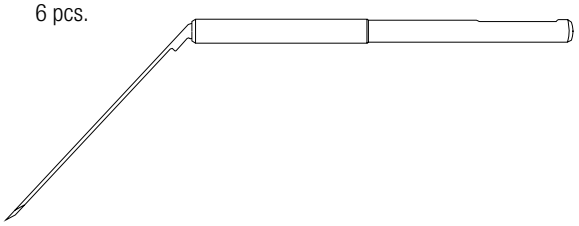
70130717 Myringotomy knives, arrow blade, round handle, sterile, single-use, 6 pcs.





70130790 Myringotomy knives, lance juvenile, round handle, sterile, single-use, 6 pcs.





70130791 Myringotomy knives (not shown), spear juvenile, round handle, sterile, single-use, 6 pcs.

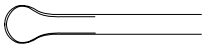
Tympanoplasty Blades

70130925 Tympanoplasty blades,
angled blade,
flat shaft,
stainless steel,
sterile, 6 pcs.





70130926 Tympanoplasty blades,
straight blade,
flat shaft,
stainless steel,
sterile, 6 pcs.





OLYMPUS

Your Vision, Our Future

Packing, Splints and Stents

PACKING PRODUCTS

Nasal/Sinus Packs
Bacteriostatic PVA Foam 529

Nasal Packs
Rhino Rocket 531

Balloon Catheters 533

Otologic Packs 535

SPLINTS AND STENTS

Nasal Splints 537

Stents and Buttons 539

Nasal/Sinus Packs

Bacteriostatic PVA Foam

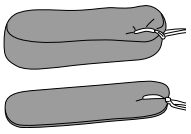
Blu and Blu Glide

Blu and Blu Glide contain a safe, patented bacteriostatic compound which inhibits the growth of infection and odor-causing micro-organisms on the sponge.

- Products are double compressed, in the width and height dimensions, for easy insertion.
- Blu Glide contains “glide surface” for easier insertion and removal.

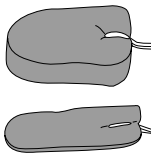
Blu and Blu Glide Sinus Packs

Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
K-Style,
3.5 cm x 0.9 cm x 1.2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



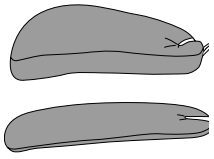
7089-0844 Blu
7089-0845 Blu Glide

Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
B-Style,
2.5 cm x 0.9 cm x 2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



7089-0846 Blu
7089-0847 Blu Glide

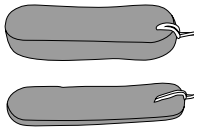
Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
T-Style,
4.5 cm x 0.9 cm x 2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



7089-0848 Blu
7089-0849 Blu Glide

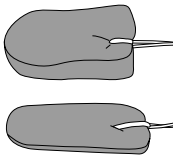
Blu and Blu Glide Sinus Packs (cont.)

Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
K-Style slim,
3.5 cm x 0.6 cm x 1.2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



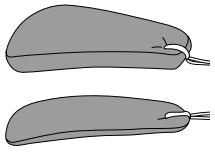
7089-0850 Blu
7089-0851 Blu Glide

Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
B-Style slim,
2.5 cm x 0.6 cm x 2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



7089-0852 Blu
7089-0853 Blu Glide

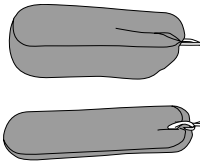
Sinus packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
T-Style slim,
4.5 cm x 0.6 cm x 2 cm (L x W x H),
sterile,
20 pcs., in twin packs,



7089-0854 Blu
7089-0855 Blu Glide

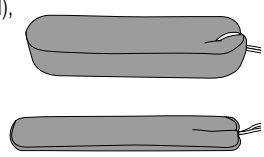
Blu and Blu Glide Nasal Packs

Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
4.5 cm small,
4.5 cm x 1.5 cm x 2 cm (L x W x H),
sterile, 10 pcs.,



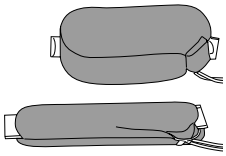
7089-0830 Blu
7089-8031 Blu Glide

Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
8 cm standard,
8 cm x 1.5 cm x 2 cm (L x W x H),
sterile, 10 pcs.,



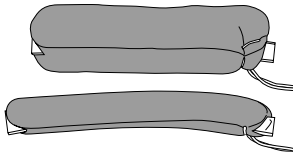
7089-0832 Blu
7089-0833 Blu Glide

Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
small with airway,
4.5 cm x 1.5 cm x 2 cm (L x W x H),
sterile, 10 pcs.,



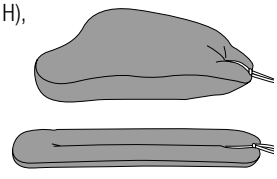
7089-0834 Blu
7089-0835 Blu Glide

Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
large with airway,
8 cm x 1.5 cm x 2 cm (L x W x H),
sterile, 10 pcs.,



7089-0836 Blu
7089-0837 Blu Glide

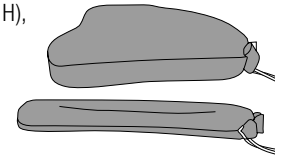
Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
D-Style anatomical, 8 cm,
8 cm x 1.5 cm x 3 cm (L x W x H),
sterile, 10 pcs.,



7089-0838 Blu
7089-0839 Blu Glide

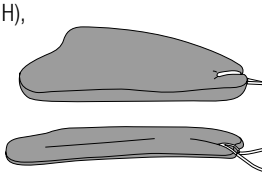
Blu and Blu Glide Nasal Packs (cont.)

Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
D-Style anatomical with airway,
8 cm x 1.5 cm x 3 cm (L x W x H),
sterile, 10 pcs.,



7089-0840 Blu
7089-0841 Blu Glide

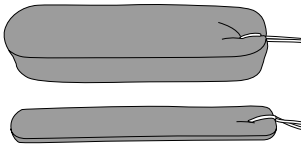
Nasal packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
D-Style anatomical, slim,
8 cm x 0.75 cm x 3 cm (L x W x H),
sterile, 10 pcs.,



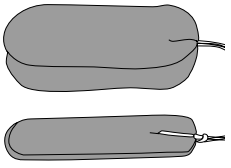
7089-0842 Blu
7089-0843 Blu Glide

Blu Epistaxis Packs

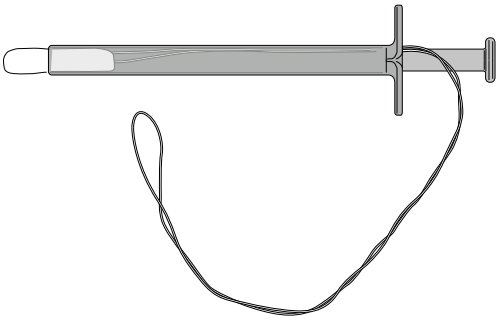
7089-0856 Blu epistaxis packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
nasal,
large, 10 cm x 1.5 cm x 2.5 cm (L x W x H),
sterile, 10 pcs.



7089-0857 Blu epistaxis packs,
polyvinyl alcohol (PVA) foam, bacteriostatic,
nasal, D-Style anatomical with airway,
small, 5.5 cm x 1.5 cm x 2.5 cm (L x W x H)
sterile, 10 pcs.



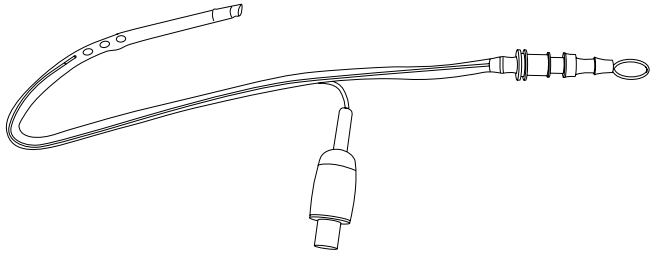
Rhino Rocket Nasal Packs



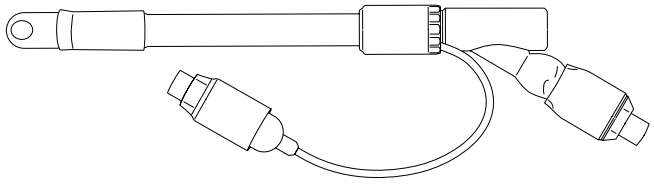
	Rhino Rocket nasal pack, polyvinyl alcohol (PVA) foam, slim line, 0.7 x 0.2 cm (W x H) compressed size, 2 x 1 cm (W x H) expanded size, sterile, 6 pcs.,
70890750	small, 3 cm length
70890751	medium, 5 cm length
70890752	large, 8 cm length
70890753	x-large, 10 cm length
	Rhino Rocket nasal pack, polyvinyl alcohol (PVA) foam, wide line, 0.7 x 0.6 cm (W x H) compressed size, 2 x 1.5 cm (W x H) expanded size, sterile, 6 pcs.,
70890754	small, 3 cm length
70890755	medium, 5 cm length
70890756	large, 8 cm length
70890757	x-large, 10 cm length

Balloon Catheters

890922 Posterior nasal balloon catheter,
silicone,
sterile, single use, 6 pcs.,
8 1/2” length



890911 Sliding cuff nasal balloon catheter,
silicone,
sterile, single use, 6 pcs.,
sliding cuff, 5” length



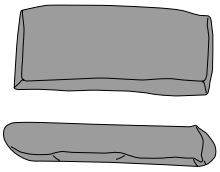
Balloon Catheter Kits

890912 Sliding cuff nasal balloon catheter kit (not shown),
silicone,
sterile

Delivery includes:
one sliding balloon catheter (#890911),
one syringe and one 4x4 gauze sponge

Otologic Packs

Blu Ear Wick

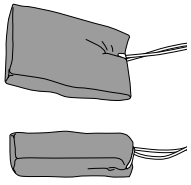


7089-0858 Blu ear wick,
polyvinyl alcohol (PVA) foam, bacteriostatic,
9.0 x 15 mm (dimension in hydrated state),
sterile, 50 pcs.

7089-0859 Blu ear wick,
polyvinyl alcohol (PVA) foam, bacteriostatic,
9.0 x 24 mm (dimension in hydrated state),
sterile, 10 pcs.

Blu Ear Packing

7089-0860 Blu ear wick packing,
with drawstring,
polyvinyl alcohol (PVA) foam, bacteriostatic,
12 x 15 mm (dimension in hydrated state),
sterile, 10 pcs.



Ear Wick

- The wick is a polyvinyl compressed sponge which is stiff when dry and permits easy, painless introduction into the external canal even if there is inflammatory stenosis of the canal.
- When liquid medication is applied, the wick expands to conform to the anatomy of the canal and provides gentle, wet pressure for an extended length of time. As the canal stenosis subsides, the wick expands to afford good circumferential application.

70140095 Ear wick,
sterile, 48 pcs.,
1.4 x 0.235 cm (approximate dry dimension),
1.5 x 0.9 cm (approximate wet dimension)



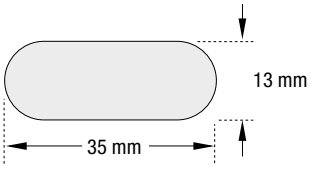
Rosette Packing

- Rosette packing strips can be used to create a “rosebud” packing in the external auditory canal in association with tympanoplasty.
- The strips should be coated with an antibiotic ointment and dipped in Ringer’s solution to facilitate their introduction. Once the strips are in place, cotton soaked in antibiotic solution is used as packing.
- The strips are easily removed without discomfort and help prevent the formation of granulations on the surface of the tympanic graft.

140320 Rosette packing, silicone,
0.13 mm thick,
35 mm overall length,
4 mm width,
12 pcs.



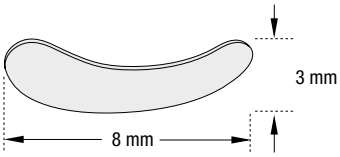
140322 Rosette packing, silicone,
0.13 mm thick,
35 mm overall length,
13 mm width,
6 pcs.



Schuknecht Crescent

- The crescent is placed into the hypotympanum to prevent adhesions of tympanoplasty grafts and to aid in the creation of an air-containing cavum minor.
- May be trimmed to assure proper fit.
- May be left in place indefinitely.

140219-ENT Schuknecht crescent,
fluoroplastic,
0.06 mm thick,
11 mm overall length,
1 pc.

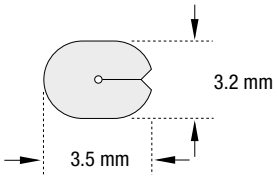


Designed for Harold F. Schuknecht, M.D., Boston, MA, USA.

Schuknecht Oval Disc

- Designed to slip around a wire prosthesis to prevent adhesions.

145222 Schuknecht oval disc,
3.2 x 4.5 mm

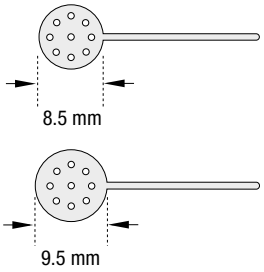


Designed for Harold F. Schuknecht, M.D., Boston, MA, USA.

Shah Discs

- A graft will have been laid inside or outside the drum remnant, a suitable piece of material placed on the graft, and, usually, some packing applied in the ear canal. There is often a risk of disturbing the newly applied graft if there is fixation with the canal skin or packing.
- The Shah disc is positioned to cover the graft and resist adherence of packing.
- The disc and the packing are removed 7 to 10 days postoperatively.

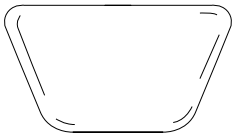
Shah disc,
silicone,
0.25 mm thick,
1 pc.,
140175 small, 8.5 mm diameter
140176 large, 9.5 mm diameter



Designed for Mr. N. Shah, F.R.C.S., D.L.O., London, England

Nasal Splints

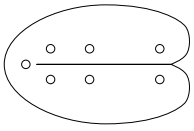
External Nasal Splints



Universal external nasal splint,
aluminium,
sterile,
6 pcs.,

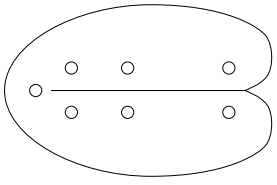
70890907	small/medium
70890908	large

Bivalve Internal Nasal Splints



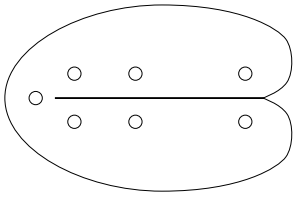
Bivalve splint,
polyethylene,
12 pcs.,
42 mm x 26 mm (L x W),

890916	0.25 mm thick
890917	0.5 mm thick



Bivalve splint,
polyethylene,
12 pcs.,
60 mm x 38 mm (L x W),

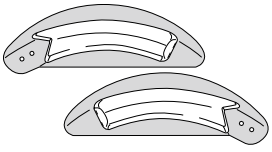
890918	0.25 mm thick
890919	0.5 mm thick



Bivalve splint,
polyethylene,
12 pcs.,
64 mm x 42 mm (L x W),

890920	0.25 mm thick
890921	0.5 mm thick

Nasal Septal Splints

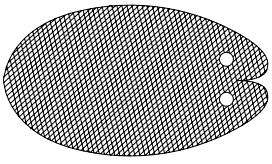


Nasal septal splints,
silicone,
with airway,
sterile, 6 pairs, right and left,

890914	standard, 2.77" x 0.93" x 0.27" (L x W x D)
890915	small, 2.71" x 0.92" x 0.25" (L x W x D)

Designed for Thad Pope, M.D., Crawfordsville, IN, USA.

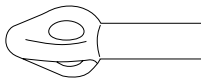
140441 Neiman nasal septal splints,
silicone,
1.67" x 1.00" x 0.03" (L x W x D),
sterile, 1 pair



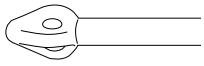
Designed for Leon Neiman, M.D., Akron, OH, USA.

Rains Frontal Sinus Stents

70890931 Rains frontal sinus stents,
silicone,
large,
5.2 mm shaft diameter,
3.7 mm shaft inner diameter,
39 mm shaft length,
52 mm stent length,
sterile, single use, 6 pcs.



70890932 Rains frontal sinus stents,
silicone,
standard,
4 mm shaft diameter,
3.2 mm shaft inner diameter,
38 mm shaft length,
48 mm stent length,
sterile, single use, 6 pcs.

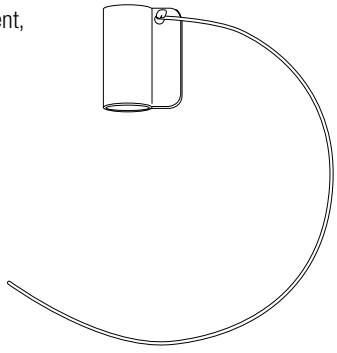


Designed for B. Manrin Rains III, M.D.

Sinuspacer Turbinate Stent

A silicone stent designed to prevent postoperative adhesions between the middle turbinate and the lateral nasal wall following endoscopic or microscopic sinus surgery.

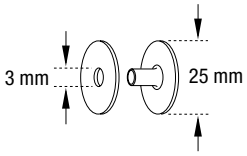
890913 Sinuspacer turbinate stent,
sterile, single use,
6 pairs



Plasti-Pore Septal Button

- Used to close nasal septal perforations.
- The two-piece device can be trimmed to the designated size.
- The procedure can be done in the office using local anesthesia or in conjunction with some other intranasal surgery.
- The female flange accepts the post of the male flange component, and the attached components are sutured into place.

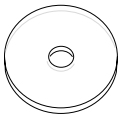
140840 Plasti-Pore septal button,
3 mm flange inner diameter,
25 mm flange outer diameter,
0.64 mm flange thickness,
1 pc.



Silicone Septal Button

- Allows for maximum biocompatibility. The characteristics of silicone reduce the chance of crusting around the implant.
- A popular septal button that is easy to insert and useful in reducing crusting, epistaxis, and other symptoms of septal perforations.
- Allows the surgeon to trim the button to best meet the patient's needs.

890924 Silicone septal button,
medical grade silicone,
one piece button,
1–1/4" outer diameter,
1/4" inner diameter,
0.035" wall thickness,
0.18" total thickness,
1 pc.



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Systems Intergration

ENDOALPHA CONTROL

ENDOALPHA CONTROL 543

UCES-3
Control Unit 545

Accessories
for Control Unit UCES-3 547

ENDOALPHA CONTROL AND VIDEO MANAGEMENT

VMC-3
Control Unit 549

Control and Display Panel
ENDOALPHA Wall Components 551

Cables
for VMC-3 553

Adapters
for Ceiling Supply Units and Racks 555

ENDOALPHA VIDEO MANAGEMENT

ENDOALPHA Video Management 557

Video Network Solution 559

Video Network Solution
Software Licence Vouchers 561

ENDOALPHA DOCUMENTATION

ENDOALPHA Documentation 563

VMC-1
Documentation System 565

ENDOBASE
Software Solution 567

ENDOALPHA Documentation
Accessories 569

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

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ENDOALPHA CONTROL



- Centralized and dynamic control of the entire OR from both the sterile and non-sterile field
- Control of medical and peripheral devices such as video processors, insufflators, electrosurgical products, surgical lights, room light and in-room video management
- Intuitive smartphone-like navigation via app buttons
- Harmonized OR functionalities on a single touch panel
- Customizable user interface

SmartGuideENDOALPHA HomeScreen



- User-friendly touch panel interface reduces complexity of operating multiple devices from various manufacturers
- Close development with surgeons and nurses ensures maximum ease of use
- Intuitive and simple navigation leads to reduced training time
- Immediate identification of functions can help to avoid potential user errors
- Improves workflow and can lead to a less stressful working environment

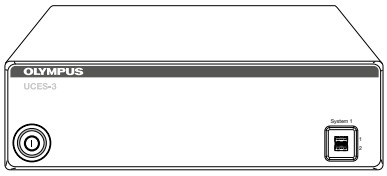
ENDOALPHA SceneSelection



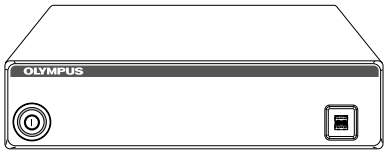
- Simultaneous control of multiple device settings following the procedure workflow – e.g. supports easy switch between minimally invasive and open surgery
- All the settings for each procedure phase are preprogrammed and accessible with a single click of the button
- Reduced preparation and set-up time since preferred settings can be saved and easily recalled
- Simplifies and streamlines workflow during surgery
- Supports standardization of OR procedures
- Customizable equipment settings

ENDOALPHA Control Units

N3625940 Medical control unit for endosurgery
UCES-3



N3626040 Extension unit for UCES-3
MAJ-1827



Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption UCES-3 ..... 110 VA
- Power consumption MAJ-1827 ..... 80 VA
- Fuse ..... 2 A, 250 V

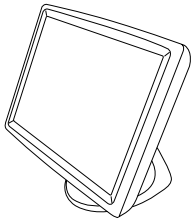
Size
- Dimensions UCES-3 ..... width 372 mm, height 113 mm, depth 454 mm
- Dimensions MAJ-1827 ..... width 372 mm, height 80 mm, depth 335 mm
- Weight UCES-3 ..... 6.9 kg
- Weight MAJ-1827 ..... 4 kg

Safety
- Directive 93/42/EEC ..... class IIb

Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -20 – 60 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Touchscreen

N3626130 Touch panel for ENDOALPHA
MAJ-1828



Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 30 VA

Size
- Dimensions ..... width 354.5 mm, height 347.8 mm, depth 203 mm
- Weight ..... 6.9 kg

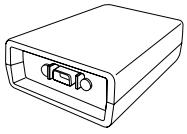
Safety
- Directive 93/42/EEC ..... class IIb

Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -20 – 60 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Accessories
for Control Unit UCES-3

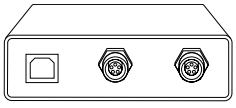
Interface Exchanger (1)

N3626230 Interface for Olympus RS-232C device, MAJ 1830



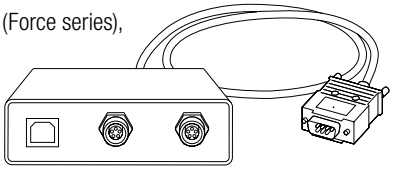
Technical Data
Power supply
Voltage ..... 5 V =
Size
Dimensions ..... width 60 mm
height 27 mm
depth 92 mm
Weight ..... 0.1 kg

N3626330 Interface for ESU (VIO series), MAJ-1831



Technical Data
Power supply
Voltage ..... 5 V =
Size
Dimensions ..... width 101 mm
height 32 mm
depth 131 mm
Weight ..... 0.4 kg

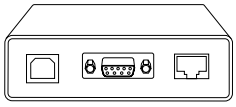
N3626430 Interface for ESU (Force series), MAJ-1832



Technical Data
Power supply
Voltage ..... 5 V =
Size
Dimensions ..... width 101 mm
height 32 mm
depth 121 mm
Weight ..... 0.5 kg

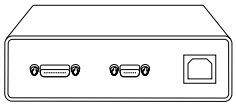
Interface Exchanger (2)

N3626530 Universal interface MAJ-1834



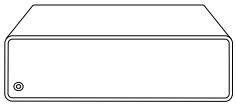
Technical Data
Power supply
Voltage ..... 5 V =
Size
Dimensions ..... width 101 mm
height 32 mm
depth 130 mm
Weight ..... 0.4 kg

N3831440 Interface for Olympus Link Device MAJ-1917



Technical Data
Power supply
Voltage ..... 5 V =
Size
Dimensions ..... width 101 mm
height 32 mm
depth 120 mm
Weight ..... 0.4 kg

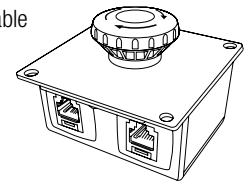
N3626630 IR Interface for UCES-3 MAJ-1862



Technical Data
Power supply
Voltage ..... 12 V = + 5 V =
Size
Dimensions ..... width 143 mm
height 52 mm
depth 98 mm
Weight ..... 0.6 kg

Emergency Stop Switch

N3626830 ENDOALPHA stop switch for OR table MAJ-1882



Technical Data

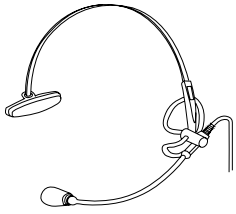
Size

Dimensions ..... width 81 mm
height 81 mm
depth 64 mm

Weight ..... 0.3 kg

Microphone for Voice Control

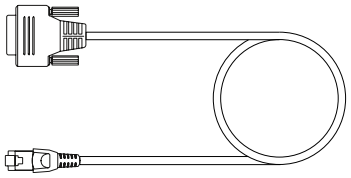
N1032200 Surgeon's microphone for ENDOALPHA MAJ-1177



Connecting Cables

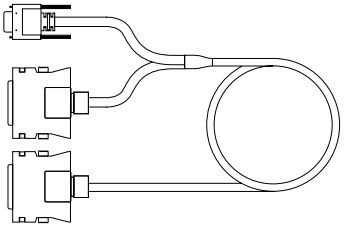
Further cables are required (LAN, VGA, USB, RS232, 9pin). These have to be clarified project specifically by the OLYMPUS project management.

N3626700 UCR cable for UCES-3, MAJ-1877, 2 m



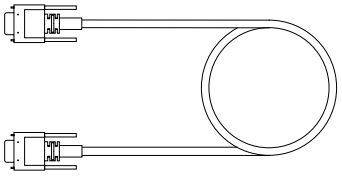
Light source cable with remote,

N3646100 MAJ-1913, 10 m
N3647900 MAJ-1953, 1.8 m



Communication cable,

N3647400 MAJ-1942, 0.7 m
N3647600 MAJ-1948, 1.8 m



Further cables are required (LAN, VGA, USB, RS232, 9pin). These have to be clarified and defined project specifically by the Olympus project management.

OLYMPUS

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VMC-3

Control Unit







- VMC-3 focuses on video management and communication in the OR
- Simple and intuitive app button navigation (provided by HomeScreen) leads to reduced training time
- When combined with control unit for endosurgery (UCES-3), the VMC-3 allows procedure-driven control of the entire OR
- Compatibility with Video Network Solution allows efficient and convenient collaboration, mentoring and teaching within the OR and beyond, providing access to real-time information and video anywhere in the hospital[1]

SmartGuide navigation

- Simple, workflow-oriented SmartGuide navigation, featuring HomeScreen and SceneSelection
- HomeScreen app buttons allow quick identification of functions and can help to avoid potential user errors
- One-click adaptation of OR settings via SceneSelection improves the workflow according to procedure progress

[1] Video streaming solution required.

Control Unit VMC-3

WD15003A Control unit “VMC-3”,
for video management

Supporting 3G video routing.
Delivery includes:
Control unit, touch signal converter (incl. power cable)

WD15003E Control unit “VMC-3”,
set,
for video management

Supporting 2D video routing.
Delivery includes:
Control unit, touch signal converter (incl. power cable),
VNS encoder HD, Adapter WD15006A

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 200 VA

Size
- Dimensions ..... width 372 mm, height 113 mm, depth 447 mm

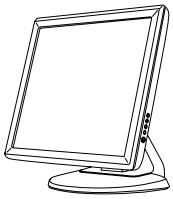
Weight
- WD15003A ..... 9 kg
- WD15003E ..... 9.6 kg

Safety
- IP classification IP2x
- Directive 93/42/EEC ..... class I

Ambient conditions
- Operation ..... temperature 5 – 35 °C, relative humidity 30 – 80 %
- Transport and storage ..... temperature -20 – 60 °C, relative humidity 10 – 90 %

Touchscreen

WECB0012 Touch screen “ELO ET1528L MD”



Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 48 W

Dimensions ..... 355 (W) x 350 (H) x 203 (D) mm
Weight ..... 8.3 kg
Display
- Size (diagonal), aspect ratio ..... 15”, 4:3
- Native resolution ..... 1024 x 768 pixels

WD15080A Adapter (not shown),
set,
for VMC to second touch screen

Accessory kit to enable installation of second touch screen. Includes converter to connect serial and video via CAT5 cable to VMC. Includes power supply cable for converter.

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Control and Display Panel

ENDOALPHA Wall Components



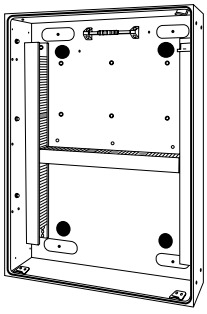


- Improved workflow and aesthetics
- Wall-mounted monitor housing
- Keyboard tray storage compartment
- Video in- and outputs
- In-wall installation of screens and control
- Gasket-sealed compartments: Integrated ergonomically designed keyboard for text input; integrated patch panel to connect temporarily available video sources; integrated storage compartment. Optional: integrated iPod® music player docking station

Control Technical Panel

Integrated touch screen - 15 inch, integrated keyboard with mouse pad and optional iPod station, offers additional storage space for accessories, integrated in wall.
Smooth glass surfaces and flush compartments provide for easy cleaning. Docking station compartment to depositing the Apple iPod(TM) mobile digital device. Patch panel compartment for external A/V connections. Inside the storage compartment, accessory items can be stowed safely and cleanly. For convenient authoring of reports and text-based system interactions (i.e. patient queries), the embedded keyboard is accessible inside a flush drawer.

WD12025A Technical Panel,
for touchscreen,
installation box,
depth 150 mm

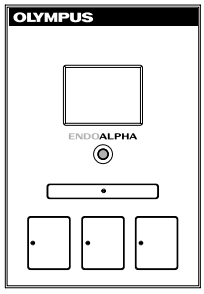


Technical Data

Dimensions ..... 718 (W) x 1068 (H) x 149 (D) mm
Safety
Directive 93/42/EEC ..... class I

WD12026A Door,
glass,
for WD12025A

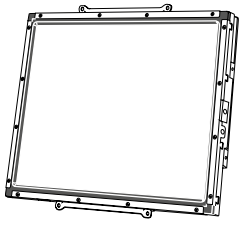
- includes keyboard (QWERTY) and stop-button



Technical Data

Dimensions
Cover glass ..... 778 (W) x 1128 (H) x 21 (D) mm
Safety
Directive 93/42/EEC ..... class I

WD12024A Touchscreen “ELO 1537L”,
for WD12020A

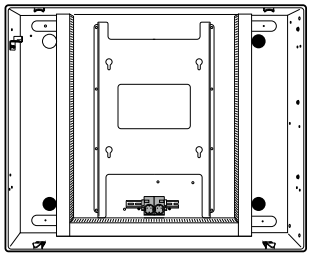


Display Technical Panel

Integrated monitor of 42 inch for collaboration, mentoring, tele-teaching, procedure observation by guests etc., integrated in wall.
Smooth glass surface provide for easy cleaning.
The 42” display delivers crisp images in high-definition. The wide viewing angle results in an excellent viewing experience anyplace inside the operating theatre.

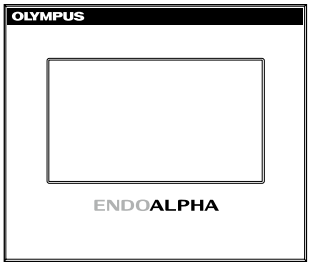
WD12035A Technical Panel,
for 42” display,
installation box,
depth 150 mm

1268 x 1068 x 149 mm



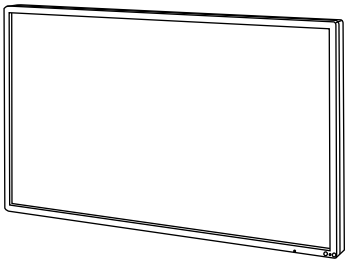
WD12036A Door,
glass,
for WD12035A

1328 x 1128 x 21 mm
(cover glass)



WD12032B Monitor,
LCD, 42”

for WD12030A



Cables for VMC-3

WD15092A Cable,
VMC to CSU,
data/light

System cable to connect VMC-3 to adapter WD15088A.
Affected functionalities:
- On-air light indicates active VNS broadcast
- Additional separate button to power unit on/off
- Connecting up to two touchscreens

Length ..... 0.7 m
Compatibility VMC-3, WD15088A

WD15093A Cable,
VMC to CSU,
system

System cable to connect VMC-3 to adapter WD15083A.
Affected functionalities:
- Room camera control
- Keyboard/mousepad connection to technical panel WD12025A/WD12026A (optional)
- Headset(s) and microphone(s) for communication and talkback (in combination with VNS Session Manager licenses)
- Auxiliary audio input for ie. music players

Length ..... 0.7 m
Compatibility VMC-3, WD15083A

WD15094A Cable,
VMC to CSU,
for UCES

System cable to connect VMC-3 to adapter WD15084A.
Affected functionalities:
- Shared touchscreen
- HomeScreen
- SceneSelection
- Shared status bar
- UCES-3 voice control
- UCES-3 voice feedback
- UCES-3 touch screen when VMC-3 is switched off

Length ..... 0.7 m
Compatibility VMC-3, WD15084A

Cables for VMC-3 (cont.)

WD15095A Cable,
VMC to UCES

System cable to connect VMC-3 to UCES-3.
Affected functionalities:
- Shared touchscreen
- HomeScreen
- SceneSelection
- Shared status bar
- UCES-3 voice control
- UCES-3 voice feedback
- UCES-3 touchscreen when VMC-3 is switched off

Length ..... 0.7 m
Compatibility VMC-3, UCES-3

WD15096A Cable,
VMC to CSU,
audio

System cable to connect VMC-3 to adapter WD15086A.
Affected functionalities:
- Auxiliary audio input amplification
- Recorder audio connection
- Wired inter-com audio connection

Length ..... 0.7 m
Compatibility VMC-3, WD15086A

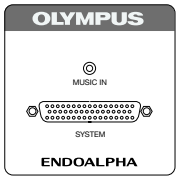
Adapters

for Ceiling Supply Units and Racks

Adapters

Adapters for installation in ceiling supply units (CSU) or racks.
Size
Width ..... 80 mm
Height ..... 80 mm

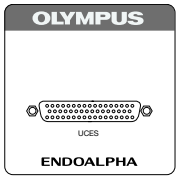
WD15083A Adapter,
VMC to CSU,
system



Splits system cable WD15093A into several standard connectors.
Affected functionalities:
- Room camera control
- Keyboard/mousepad connection to technical panel WD12025A/WD12026A (optional)
- Headset(s) and microphone(s) for communication and talkback (in combination with VNS Session Manager licenses)
- Auxiliary audio input for ie. music players

Delivery includes sealing gasket and cable protection case.

WD15084A Adapter,
VMC to CSU,
for UCES



Splits system cable WD15094A into several standard connectors.
Affected functionalities:
- Shared touchscreen
- HomeScreen
- SceneSelection
- Shared status bar
- UCES-3 voice control
- UCES-3 voice feedback
- UCES-3 touchscreen when VMC-3 is switched off

Delivery includes sealing gasket and cable protection case.

Adapters (cont.)

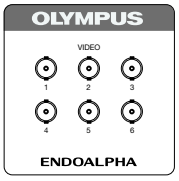
WD15086A Adapter,
VMC to CSU,
audio



Splits system cable WD15096A into several standard connectors.
Affected functionalities:
- Auxiliary audio input amplification
- Recorder audio connection
- Wired inter-com audio connection

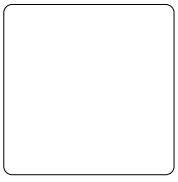
Delivery includes sealing gasket and cable protection case.

WD15087A Adapter,
VMC to CSU,
video



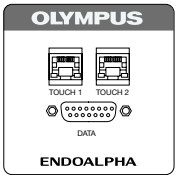
Passes through six SDI video signals.
Delivery includes sealing gasket.

WD15087B Adapter,
VMC to CSU,
blank



Covers unused cut-outs.
Delivery includes sealing gasket.

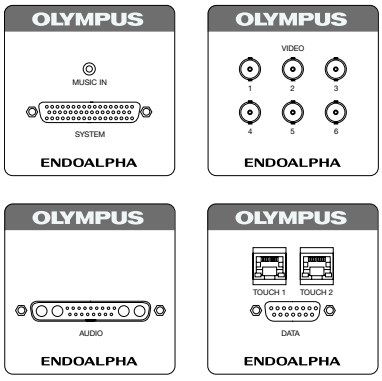
WD15088A Adapter,
VMC to CSU,
data



Splits system cable WD15092A into standard connectors.
Affected functionalities:
- On-air light indicates active VNS broadcast
- Additional separate button to power unit on/off
- Connecting up to two touchscreens

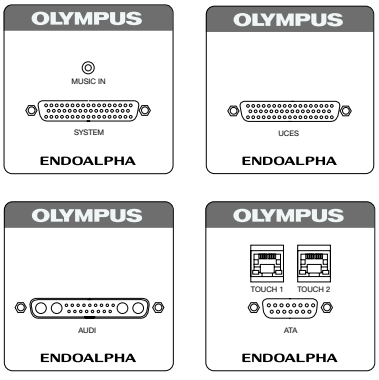
Adapter Sets

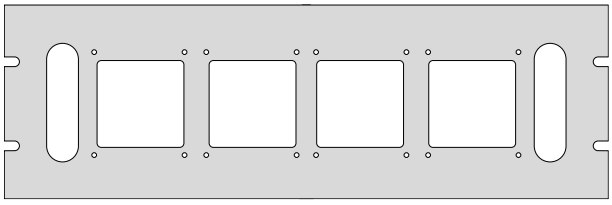
WD15089A Adapter, set, VMC to CSU



Delivery includes:
WD15088A (data), WD15083A (system), WD15086A (audio), WD15087A (video)

WD15089B Adapter, set, VMC to rack





Delivery includes:
WD15088A (data), WD15083A (system), WD15086A (audio), WD15084A (UCES), mechanical 19" rack adapter

Size

Width ..... 470 mm
Height ..... 132.5 mm
Depth ..... 100 mm

VNS Hardware Components

WD15006A Adapter, VMC to VNS, mechanical

Mechanical adapter to integrate 1 to 3 encoders inside WD15003A. Includes 3 audio cables, 3 video cables, 4 network cables, 1 I2C-LED cable, 1 VNS power cord. Compatible with WD15003A and WD18101C.

WD18101C Converter “VNS Encoder HD” (not shown), no housing

Encoder unit converting SDI image signals into an IP stream. Supports bi-directional audio streams.

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Video Management









Video Network Solution[1]

- Provides and distributes live videos wherever needed in the IP network.
- Live or stored videos can be readily displayed anywhere within the hospital network.
- Ideal environment for teaching, mentoring and collaboration
- Ability to view multiple streams simultaneously on a single PC monitor (i.e. endoscopic, X-ray, pathology, room camera)

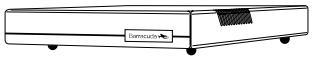
The total VNS package includes:

- VNS web-based viewer (Network Player), a completely web-based player which can be accessed from any PC in the hospital.
- Multi-Stream Viewer enables multiple images to be viewed simultaneously on one monitor.
- Session Manager coordinates the video network for the entire hospital.
- Recording Suite allows for real-time recording of any video source available on the network for teaching purposes and/or patient education. Recorded content can also be easily accessed via the VNS web-based viewer.
- Remote participation for medical students during live procedures, therefore reducing room traffic
- OR manager is able to monitor multiple room statuses on a single screen, facilitating planning and tracking of patients and resources
- Physician can easily reference and recall important procedure events by placing marker; video bookmarks embedded with meta data (recording).
- Opportunity to view procedure from any PC in the hospital network without installing specialized software

[1] Not intended for diagnostic purposes.

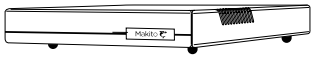
VNS Encoder

WD18100A Converter “VNS Encoder SD”



Encoder unit:
Encodes SD-SDI, S-Video or Composite image signal into IP stream. Supports bi-directional audio streams.

WD18101A Converter “VNS Encoder HD”



Encoder unit:
Encodes HD-SDI, SD-SDI, S-Video or Composite image signal into IP stream. Supports bi-directional audio streams.

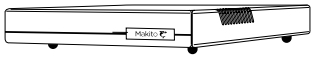
WD18102A Converter “VNS Encoder HD”, DVI



Encoder unit:
Encodes DVI, RGBHV or Component image signal into IP stream. Supports bi-directional audio streams.

VNS Encoder

WD18111A Converter “VNS Decoder HD”



Decoder unit:
Decodes H.264 encoded IP network stream into HD-SDI, SD-SDI, HDMI image output.

WD18121A Converter “VNS Set-Top-Box HD”



Decoding Set-Top-Box with integrated web player

- Operated with remote control
- Runs web player for access to live streams and stored content

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 15 VA

Size WD18100A/-01A/-02A/11A
- Dimensions ..... width 149 mm, height 24 mm, depth 202 mm
- Weight ..... 1.2 kg

Size WD18121A
- Dimensions ..... width 205 mm, height 44 mm, depth 200 mm
- Weight ..... 1.4 kg

Video
- Inputs WD18100A ..... SD-SDI, S-Video NTSC/PAL, Composite NTSC/PAL
- Inputs WD18101A ..... HD-SDI, SD-SDI, S-Video NTSC/PAL, Composite NTSC/PAL
- Inputs WD18102A ..... DVI component digital, RGB component analog
- Outputs WD18111A ..... HD-SDI, SD-SDI, HDMI
- Outputs WD18121A ..... HDMI, Composite NTSC/PAL, Component analog
- Resolutions WD18100A ..... 720 x 480, 576i
- Resolutions WD18101A/-02A 1920x1080p, 1920x1080i, 1280x720p, 720x480/576i
- Resolutions WD18111A/-21A 1920x1080p, 1920x1080i, 1280x720p, 720x480/576i, 720x480/576p
- Compression ..... H.264 (MPEG4 AVC Part 10), 150 kbps to 8 Mbps, MPEG1[1], MPEG2[1] ([1]only WD18121A)

VNS Session Manager

Licence kits with customized numbers of encoders in one installation:

- "Starter" with up to 5 encoders,
- "Basic" with up to 15 encoders,
- "Standard" with up to 25 encoders,
- "Premium" with up to 35 encoders,
- "Enterprise" with an unlimited number of encoders.

SD and HD versions:

- HD versions for high definition (HD) and standard definition (SD) live streams.
- SD versions for standard definition (SD) live streams.
- Web portal
- Zero-footprint web player
- Unlimited number of web players for single live streams
- Active directory / LDAP connectivity
- Bi-directional audio support
- Stream encryption AES 256 bit

Upgrades and extensions:

- Unicast extension available for multicast to unicast transcoding in networks without or limited multicast support
- SD to HD upgrades
- Version upgrade, upgrade licence for
  - Starter to Basic,
  - Basic to Standard,
  - Standard to Premium, or
  - Premium to Enterprise.

VNS Session Manager Advanced Control

WD17160A	Software "VNS Session Manager Advanced Control"

- Remote control of all web players and set-top-boxes
- Live message overlay over streams
- Set IP address of set-top-box
- Power on/off for set-top-box

Only one license per "installation" required.

VNS Session Manager

	Software "VNS Session Manager Starter...
WD17100A	... SD"
WD17101A	... HD"
WD17102A	... Upgrade", SD to HD
WD17103A	... Unicast Extension"
	Software "VNS Session Manager Basic...
WD17110A	... SD"
WD17111A	... HD"
WD17112A	... Upgrade", SD to HD
WD17113A	... Unicast Extension"
	Software "VNS Session Manager Standard...
WD17120A	... SD"
WD17121A	... HD"
WD17122A	... Upgrade", SD to HD
WD17123A	... Unicast Extension"
	Software "VNS Session Manager Premium...
WD17130A	... SD"
WD17131A	... HD"
WD17132A	... Upgrade", SD to HD
WD17133A	... Unicast Extension"
	Software "VNS Session Manager Enterprise...
WD17140A	... SD"
WD17141A	... HD"
WD17142A	... Upgrade", SD to HD
WD17143A	... Unicast Extension"
	Software "VNS Session Manager...
WD17150A	... SD Version Upgrade"
WD17151A	... HD Version Upgrade"

VNS Recording Suite

Software “VNS Recording Suite...

WD17170A ... 1SD Channel”

WD17171A ... 1HD Channel”

WD17172A ... Channel Upgrade”, SD to HD

Functionalities:

- One concurrent recording channel on the network video recorder (NVR)

WD17170A can only be used in combination with WD17100A/-01A/-10A/-11A/-20A/-21A/-30A/-31A/-40A/-41A

WD17171A can only be used in combination with WD17101A/-11A/-21A/-31A/-41A

WD17180A Software “VNS Recording Suite Video Editor”

Functionalities:

- Editing of videos recorded with WD17170A/-71A
- Adding and editing of meta data
- Frame accurate cutting
- Bookmarks for fast access to interesting scenes
- Merging of video files
- Copying of video files
- Export to local PC
- Recording of videos to local PC
- Upload of video files from local PC to video server

License can only be used in combination with WD17100A/-01A/-10A/-11A/-20A/-21A/-30A/-31A/-40A/-41A

WD17181A Software “VNS Recording Suite Replay Volume”

Functionalities:

- 50 mbps of replay volume
- Licenses can incrementally be added
- On demand replay of recorded videos (video on demand)

Every access to a video file reduces the available replay bandwidth based on the recorded video bandwidth. Bandwidth is only used as long as a user watches a video. Afterwards the bandwidth is again available for other users.

License can only be used in combination with WD17170A/-71A/-80A

VNS Multi-Stream-Viewer

WD17190A Software “VNS Multi-Stream-Viewer”

Functionalities:

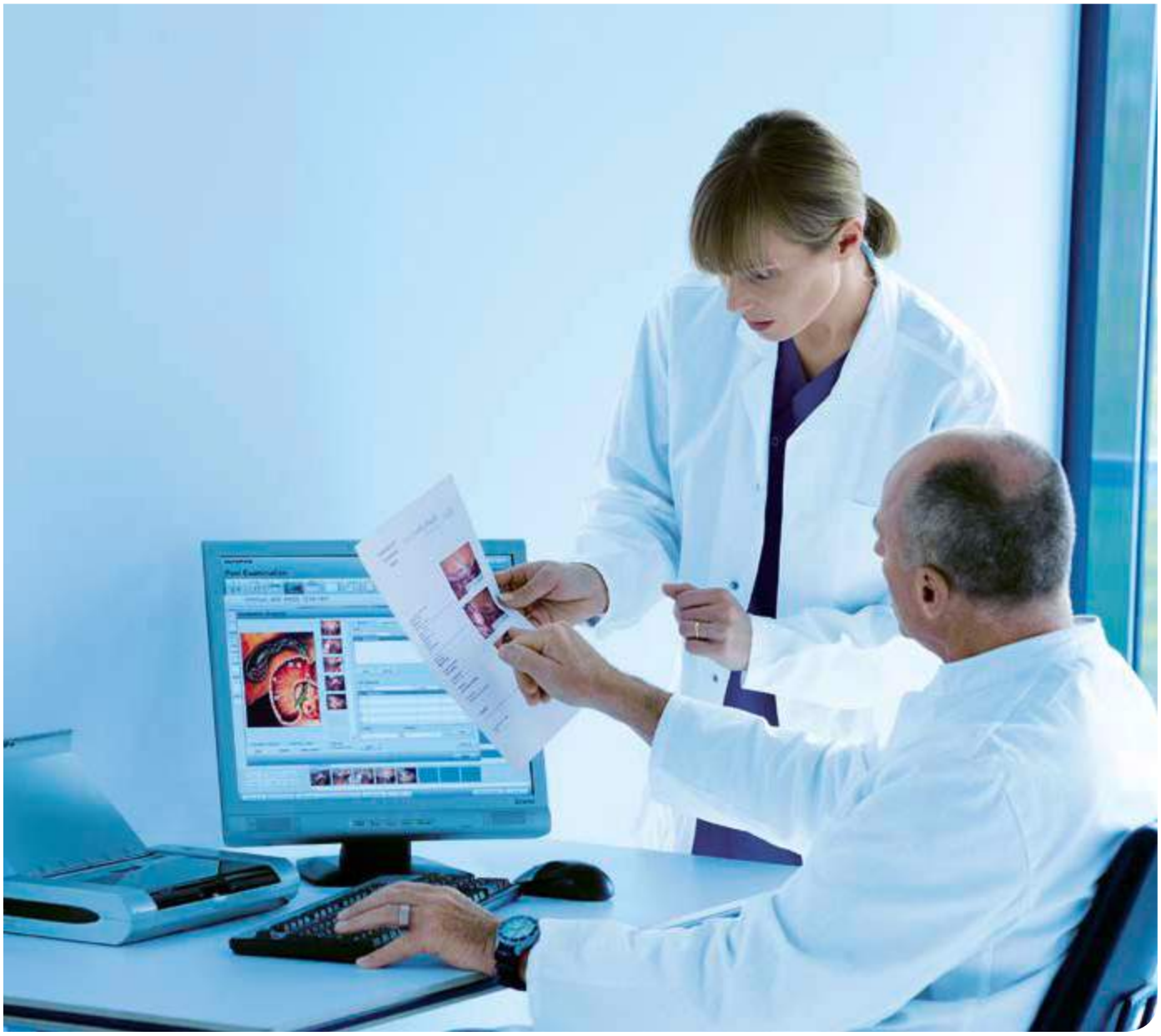
- Web based zerofootprint player
- Supports up to 7 high definition or 25 standard definition streams at full frame rate
- User configurable layouts
- Concurrent user license

License can only be used in combination with WD17100A/-01A/-10A/-11A/-20A/-21A/-30A/-31A/-40A/-41A

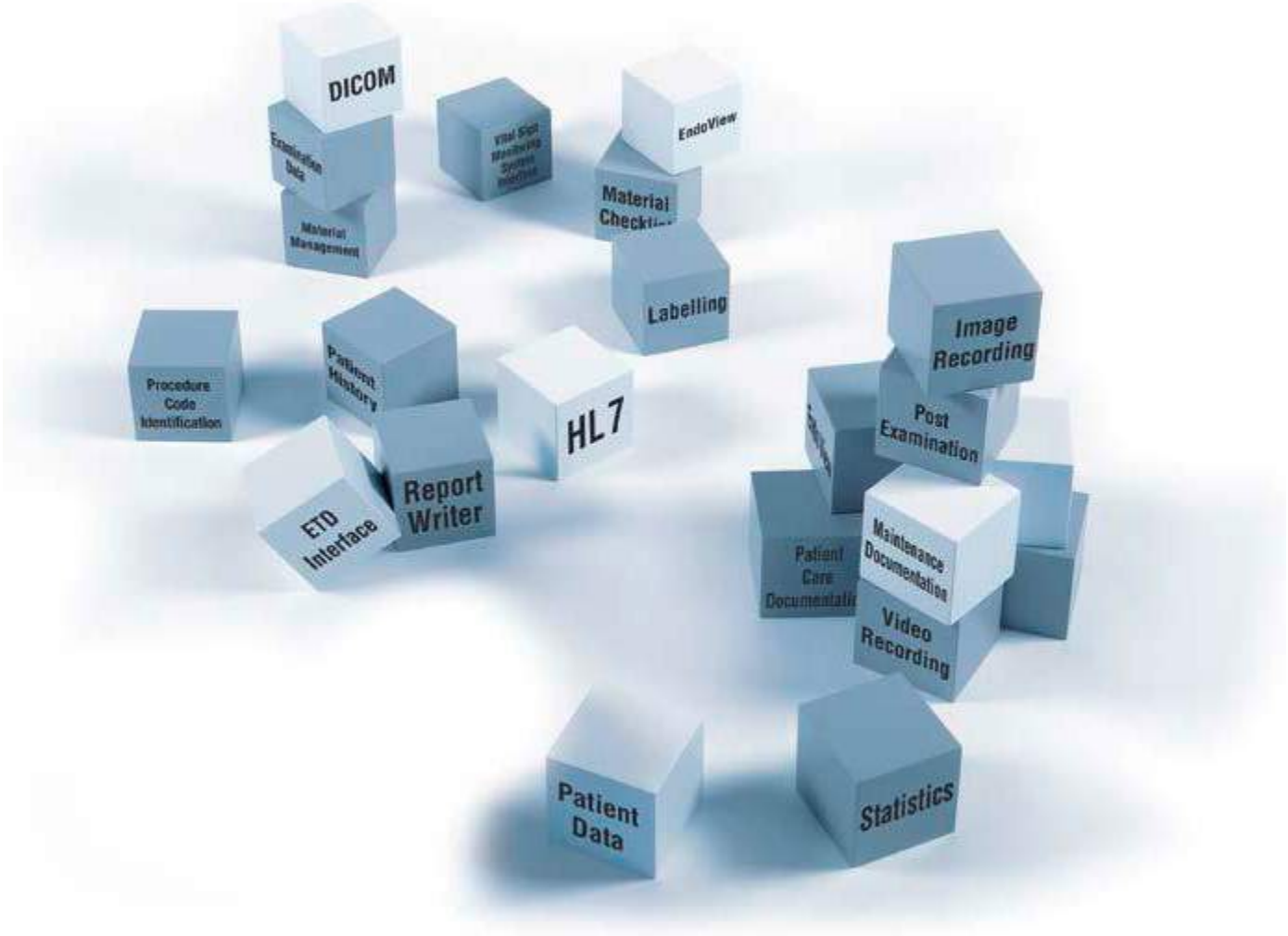
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ENDOALPHA Documentation



- ENDOALPHA documentation system captures all the information relevant to clinical procedures (such as patient data, video and still images, procedure data and material management data) in a centralized database.
- Still images and videos are readily available from anywhere in the hospital
- Covers a wide range of customer expectations, from stand-alone PCs to a hospital-wide solution
- Communication with hospital IT via HL7 and DICOM interface
- Easy access to clinical information for reference or statistical analysis
- Simplified reporting by utilization of structured terminology, text blocks and automatic links to accounting codes
- Drag and drop function allows convenient image integration into reports.

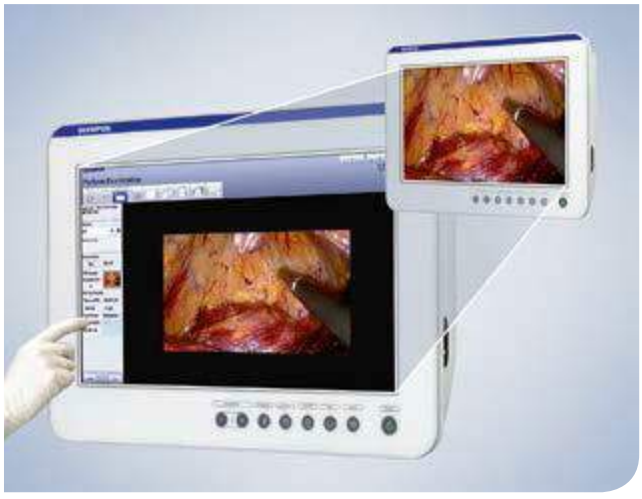


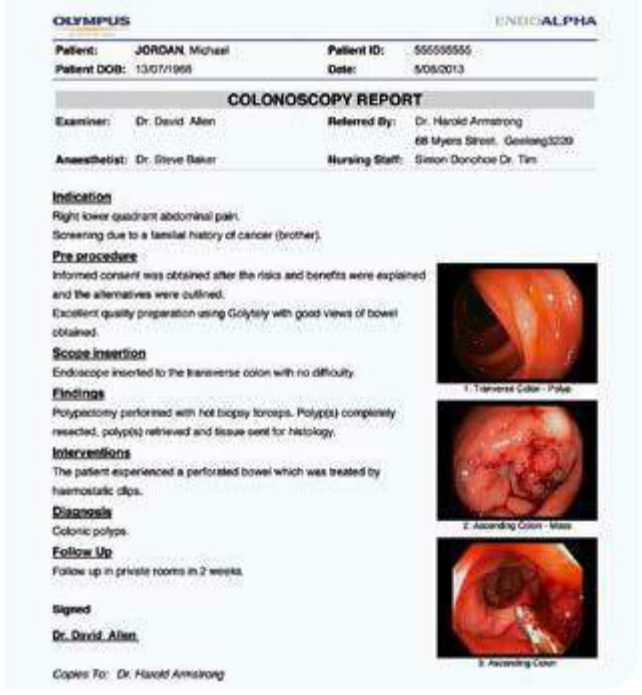
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Your Vision, Our Future

VMC-1

Documentation System





OLYMPUS ENDOALPHA

Patient:	JORDAN, Michael	Patient ID:	555555555
Patient DOB:	13/07/1968	Date:	5/06/2013

COLONOSCOPY REPORT

Examiner:	Dr. David Allen	Referred By:	Dr. Harold Armstrong
			68 Myers Street, Geelong3220
Anaesthetist:	Dr. Steve Baker	Nursing Staff:	Simon Donohoe Dr. Tim

Indication
Right lower quadrant abdominal pain.
Screening due to a familial history of cancer (brother).

Pre procedure
Informed consent was obtained after the risks and benefits were explained and the alternatives were outlined.
Excellent quality preparation using Colytely with good views of bowel obtained.

Scope insertion
Endoscope inserted to the transverse colon with no difficulty.

Findings
Polypectomy performed with hot biopsy forceps. Polyp(s) completely resected, polyp(s) retrieved and tissue sent for histology.

Interventions
The patient experienced a perforated bowel which was treated by haemostatic clips.

Diagnosis
Colonic polyps.

Follow Up
Follow up in private rooms in 2 weeks.

Signed

Dr. David Allen

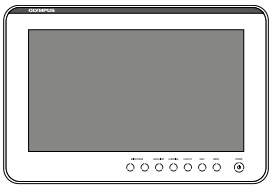
Copies To: Dr. Harold Armstrong

- All-in-one touch PC providing simple capturing and recall of patient data at a fingertip
- Touch-optimized navigation allows easy on-site patient documentation of HD images and videos as well as procedure milestones, consumable materials, scope status, reports, etc.
- Features full ENDOALPHA documentation software functionality set
- Simple key event labelling and documentation via milestones function
- Documentation of complete endoscope reprocessing cycle via interface to Olympus ETD family[1]
- Easy to disinfect: Fanless and smooth design as well as glass-encased front facilitate quick and reliable cleaning
- Can be operated stand-alone or as part of a network solution.
- Optional HL7 and/or DICOM interfaces for comprehensive HIS / PACS integration
- Image and video editing functionality including simple video cutting feature

[1] ETD series only available in Europe.

Documentation System VMC-1

WD11010A Documentation system “VMC-1”,
hardware and software,
English



Delivery includes:
VMC-1, power cable,
galvanic isolator, ENDOBASE licence

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 150 VA

Size
- Dimensions ..... width 586 mm, height 399 mm, depth 90 mm
- Weight ..... 13.4 kg
- Mounting ..... VESA 100/200

System
- Processor ..... Intel Core i5-E2510E
- Video ..... Intel HD Graphics
- Display resolution ..... max. 1920 x 1600
- Operating system ..... Windows 7 Ultimate

Integrated display
- Type ..... TFT-LCD
- Size (diagonal) ..... 21.5”
- Resolution ..... 1920 x 1080

Interfaces
- COM ports ..... 1x RS232, 2x RS232 (electrically isolated)
- USB ports ..... 3x USB 2.0, 2x USB 3.0
- Monitor ..... 1x VGA, 2x HDMI
- Network ..... RJ45 (1x GbE LAN with iAMT 7.0, 1x GbE LAN)

Safety
- IP classification IP65

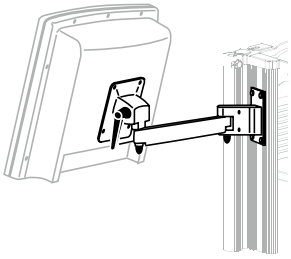
Ambient conditions
- Operation ..... temperature 0 – 35 °C, relative humidity 10 – 90 %
- Transport and storage ..... temperature -10 – 60 °C, relative humidity 5 – 95 %

Accessories

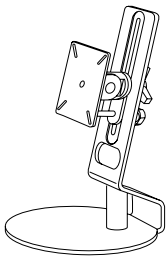
K10003563 LCD arm,
for workstation WM-P1,
“MAJ-1624”

K10004881 “MAJ-1628”, long

Maximum load: 12 kg

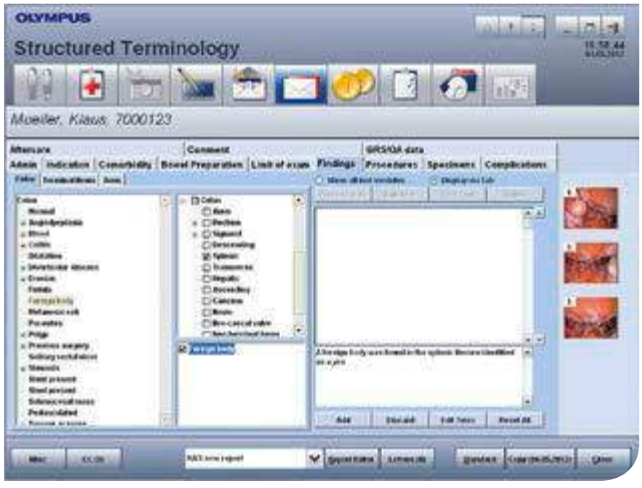


E0497465 Monitor stand,
for ENDOBASE Imaging System and
ENDOBASE DICOM System



For cables and other accessories, see page 569.





Powerful components for individual requirements

The flexibility and scalability of the ENDOBASE system allow straightforward compliance with differing customer requirements and installation scenarios. Whether it be stand-alone or HL7/DICOM-integrated solutions, limited or full functionality per network or per client – ENDOBASE suits all needs.

Different combinations of the versatile modules can be implemented, providing each department with the right software set-up.

Stand-Alone Solutions

	Software “ENDOBASE”, stand-alone, offline working,
E0424750	advanced imaging licence
E0424748	standard imaging licence
	Software “ENDOBASE”, upgrade network to stand-alone,
WD10011A	advanced imaging licence
WD10010A	standard imaging licence

Network Solutions

Requires one licence per workstation.

	Software “ENDOBASE”, network,
E0424751	advanced imaging licence
E0424749	standard imaging licence
E0424747	non-imaging licence

Concurrent Solutions

The number of concurrent licences defines the maximum number of users allowed in a network simultaneously.

	Software “ENDOBASE”, concurrent licence,
WD10004A	advanced imaging licence
WD10003A	standard imaging licence
WD10002A	non-imaging licence
	Software “ENDOBASE”, upgrade network to concurrent,
WD10009A	advanced imaging licence
WD10008A	standard imaging licence
WD10007A	non-imaging licence
	Software “ENDOBASE”, client access licence, one client required per workstation,
WD10005A	1 client
WD10006A	unlimited number of clients

Optional Functionalites

E0424718 Software “EndoView”

- Web browser based application that allows viewing of the complete patient file with all reports, images and videos throughout the hospital.
- EndoView can also be integrated in other applications e.g. programmes for a hospital-wide electronic patient file.
- 1 licence per installation

EndoView requires one client access licence (WD10005A) per workstation or WD10006A.

E0424784 Software “ENDOBASE”, ETD integration

- Documentation of reprocessing cycle including ETD protocol and users
- Check of disinfection status before examination
- 1 licence needed per 32 ETD machines.

E0424725 Software “ENDOBASE”, monitoring system interface

- 1 license required per monitoring device

WD10001A Software “ENDOBASE”, PACS integration (DICOM version 3.0)

- 1 licence per installation

E0424752 Software “ENDOBASE”, HIS integration (HL7 version 2.3)

- 1 licence per installation

Accessories and Cables

For accessories and cables, see page 569.

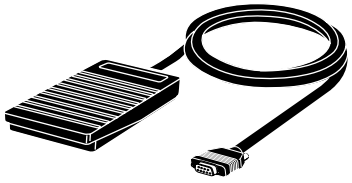
Documents

Refer to the Olympus website http://www.endobase.com for the most updated information on:

- ENDOBASE system requirements
- HL7 specifications
- DICOM conformance statement

Footswitch

024722 Footswitch,
for PC,
cable length 10 m

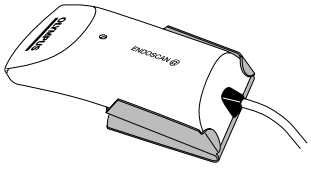


A single footswitch can be used either for still image capturing or for video capturing. Image capturing and video capturing requires two footswitches.

Identification Systems

E0424420 Identification system “Endoscan@”

Connected via USB.



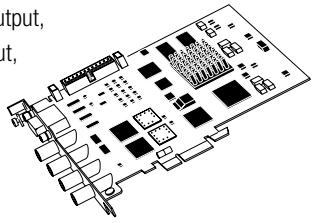
0424424 Transponder, set,
for staff,
10 pcs.



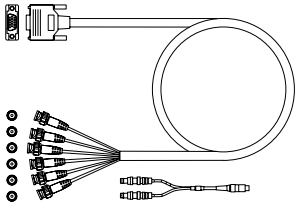
For endoscope transponder sets, see page 664.

HD Video Grabbing

E0424794 Video capture board “Matrox Vio”, HD,
x4 PCIe short card,
analog HD/SD input and output,
SDI HD/SD input and output,
128 MB DDR SDRAM



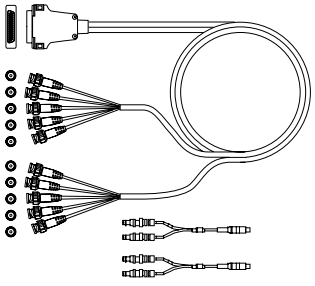
WD14005A Adapter,
Vio I/O 15-pin,
1.5 m



Consisting of two components:
- D-sub 15-pin to 6x BNC
- 2x BNC to Y/C

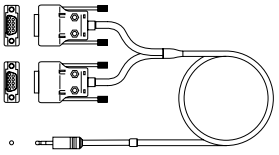
WD14006A Adapter,
Vio I/O 44-pin,
1.5 m,

Consisting of three components:
- D-sub 44-pin to 10x BNC
- 2x BNC to Y/C
- 2x BNC to Y/C

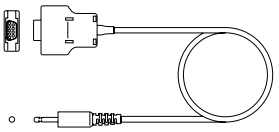


Remote Cables

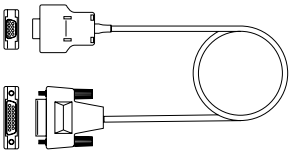
WD14004A Remote cable, still image capturing, CV-180 combined with UCES, 5 m



E0424741 Remote cable, video capturing, OTV-S5/-S6/-S7/-SP1, 5 m

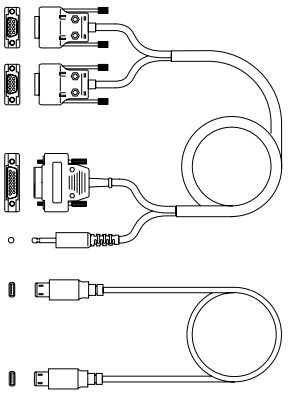


E0424766 Remote cable, still image capturing, OTV-S6/-S7/-SP1, 5 m

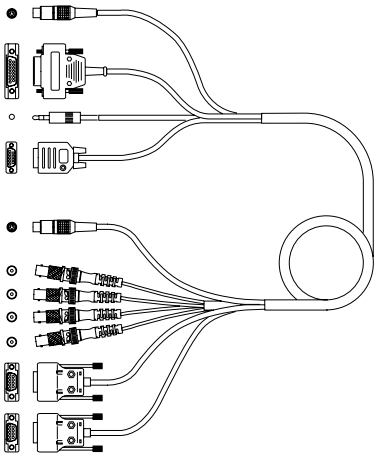


System Cables (1)

E0424781 System cable, OTV-S7/-SP1, digital, 3 m

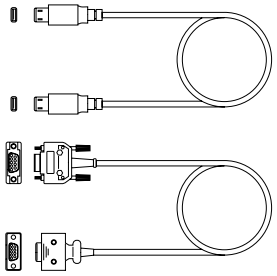


E0424777 System cable, OTV-S5/-S6/-S7/-SP1, analog, 3 m

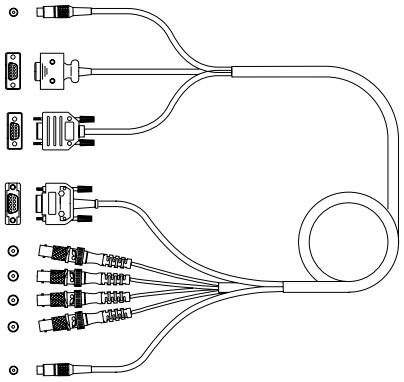


System Cables (2)

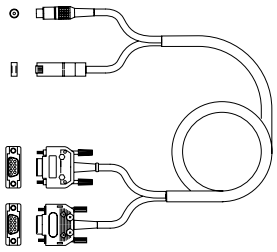
E0424776 System cable, CV-165/180, digital, 10 m



E0424771 System cable, CV-165/180, analog, 5 m



WD14001A System cable, CV-180 SDI, digital, 5 m



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Your Vision, Our Future

Imaging Equipment

4K ULTRA HIGH DEFINITION

VISERA 4K UHD
Four Times the Resolution of Full HD 573

OTV-S400
VISERA 4K UHD Camera Control Unit 575

CLV-S400
VISERA 4K UHD Xenon Light Source 577

3D IMAGING AND EVIS EXERA III

3D Imaging Solution
Achieve a New Perspective 579

3DV-190
3D Visualization Unit 581

LTF-190-10-3D
3D ENDOEYE FLEX Deflectable Videoscope 583

CV-190
EVIS EXERA III Video Processor 585

CLV-190
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VISERA ELITE

VISERA ELITE
Surgical Imaging Platform 589

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VISERA ELITE Video System Center 591

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VISERA ELITE Xenon Light Source 595

OFFICE VIDEO SYSTEMS

OTV-SC2
Office Video System 597

LIGHT SOURCES

CLL-S1
StrobeLED
Stroboscopy LED Light Source 601

CLL-V1
LED Light Source 603

Xenon E180
Xenon Light Source 605

EndoLED
Miniature Light Source 607

PERIPHERALS

LMD-X550S LMD-X310S
4K LCD Monitor 609

Sony LMD-2451MT
3D LCD 24 Inch Monitor 611

OEV262H
26 Inch High-Definition LCD Monitor 613

IMH-20
Image Management Hub 615

IMH-10
Image Management Hub 617

TROLLEYS AND WORKSTATIONS

WM-NP2
Mobile Workstation 619

TC-G2
Energy Trolley 623

TC-C2
Compact Trolley 625

OLYMPUS

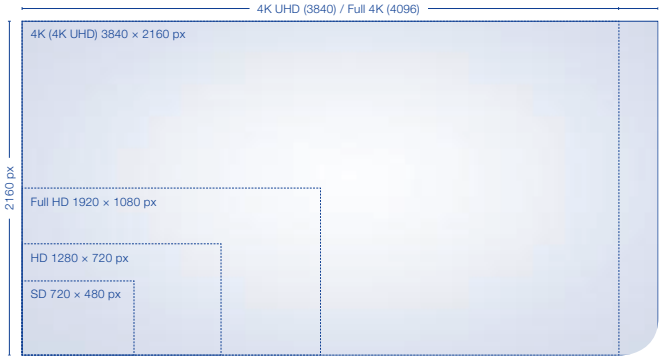
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VISERA 4K UHD

Four Times the Resolution of Full HD

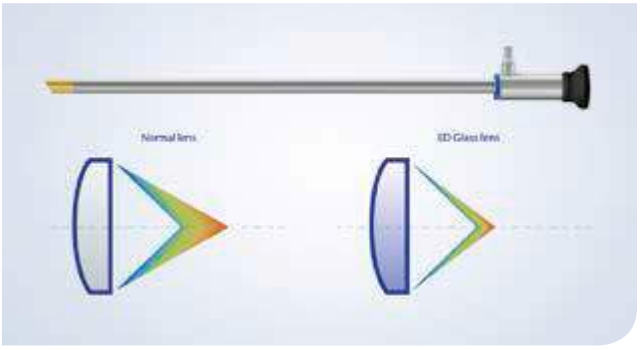
4K





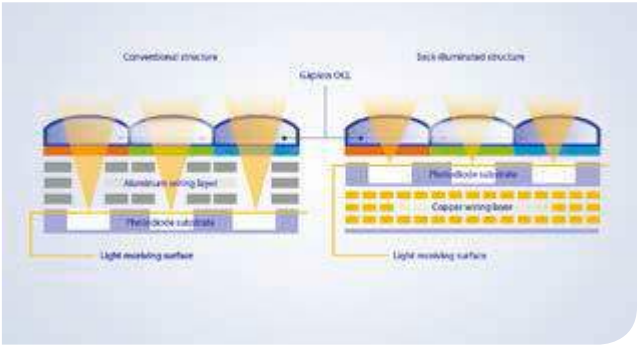
Optimizing the entire 4K imaging chain

The fine-tuning of each layer of imaging and the ideal design of every function mean optimized images for surgery.



ED glass lenses – razor-sharp images

- Optimized for high-resolution imaging
- High contrast at high spatial frequencies



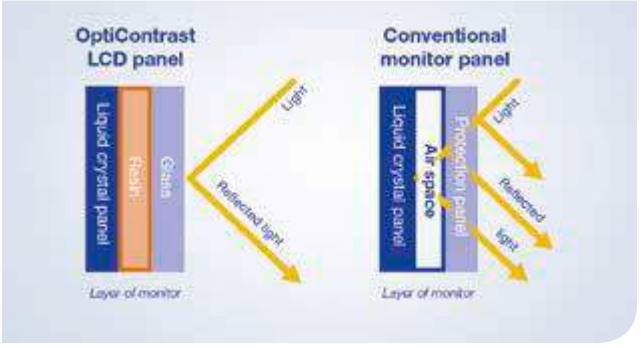
Exmor R sensor – clearer images in every condition

- Twice as sensitive as conventional sensors
- Higher image quality in low light conditions



One-touch auto focus – fast and accurate

- Achieves the optimal view
- Immediate focus of the image center
- Simplified usability during surgery



OptiContrast LCD panel – ideal contrasts

- Reduced reflections
- Unclouded images during surgery

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OTV-S400

VISERA 4K UHD Camera Control Unit



4K high-quality image processing

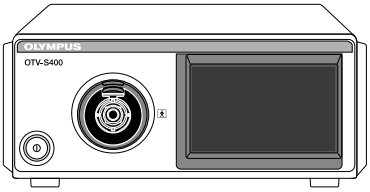
- Wide color gamut
- 16-axial color-phase adjustment (more precise color setting based on surgeon's preference)
- Improved AE (automatic exposure) function

Improved operability

- Touch panel enables adjustments during procedure
- Easy registrations and loading of user presets

VISERA 4K UHD Camera Control Unit

N5402150 OTV-S400 VISERA 4K UHD camera control unit



Delivery includes:
Camera control unit, foot holder (4 pcs.), power cable, 4K cable MAJ-2253

For light source and system chart, see page 578.
For 4K monitors, see page 609.

Technical Data

Power supply
- Voltage ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 350 VA

Size
- Dimensions, ... standard width 370 mm
  height 152 mm
  depth 476 mm
- Dimensions, maximum ..... width 390 mm
  height 160 mm
  depth 506 mm
- Weight ..... 13.5 kg

Safety
- Type of protection against electric shock ..... class I
- Degree of protection against electric shock of applied part ..... TYPE BF
- Directive 93/42/EEC ..... class I

Observation
- Signal system ..... correspond to 4K and HD
- Signal output ..... 3G-SDI, HD-SDI
- Resolution ..... 4096 x 2160, 3840 2160, 1920 x 1080

Ambient conditions
- Operation ..... temperature 10 – 35 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Storage ..... temperature 5 – 40 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa
- Transport ..... temperature -20 – 70 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa

4K Camera Head

N5401730 CH-S400-XZ-EB 4K Camera Head



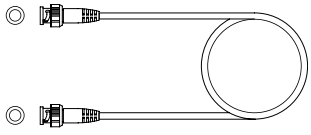
- Clamping endoscope mount for endoscopes with an eyepiece complying with DIN 58105:2000
- One touch auto focus switch
- Three remote control switches
- CMOS image sensor
- Narrow band imaging (NBI)

Technical data

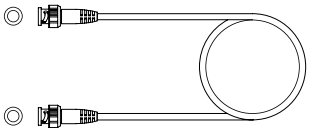
Weight ..... 280 g
Cable ..... Ø 5.2 mm x 3 m
Focal length ..... f = 23.5 mm

Accessories

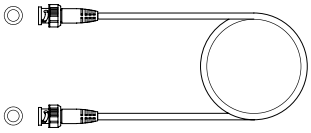
4K cable
N5402200 3.0 m, MAJ-2253
N5402300 8.5 m, MAJ-2254
N5402400 22 m, MAJ-2255



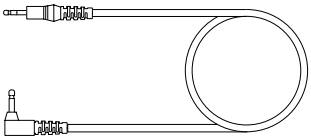
3G-SDI cable
N4491400 3.0 m, MAJ-2015
N4491500 8.5 m, MAJ-2016



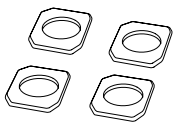
SDI cable
N3647800 2.5 m, MAJ-1951
N3646000 8.5 m, MAJ-1912
N2486300 22 m, MAJ-1464



A4933 VTR remote cable MAJ-438



N2486000 Foot holder MAJ-1433, 4 pcs.



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CLV-S400

VISERA 4K UHD Xenon Light Source



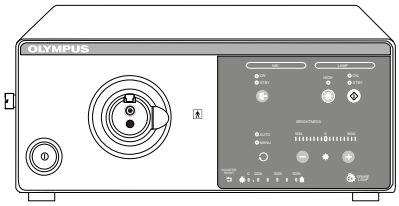
Custom light source for the 4K system

- 300W xenon lamp
- Automatic light control
- NBI compatibility

4K

VISERA 4K UHD Light Source

N5401550 CLV-S400 VISERA 4K UHD
xenon light source



Delivery includes:
Light source, light source cable MAJ-1942, foot holders MAJ-1205 (4 pcs.), power cable

Technical Data

Power supply
- Voltage ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 500 VA

Size
- Dimensions, ... standard width 370 mm
  height 150 mm
  depth 474 mm
- Dimensions, maximum ..... width 391 mm
  height 162 mm
  depth 521 mm
- Weight ..... 15.5 kg

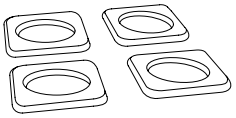
Safety
- Type of protection against electric shock ..... class I
- Degree of protection against electric shock of applied part ..... TYPE BF
- Directive 93/42/EEC ..... class I

Illumination
- Examination lamp ..... xenon short-arc lamp, 300 W
- Average lamp life ..... approx. 500 hours (on continuous use)
- Brightness control ..... light-path diaphragm
- Emergency lamp ..... halogen lamp, 12 V, 35 W

Ambient conditions
- Operation ..... temperature 10 – 40 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Storage ..... temperature 5 – 40 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa
- Transport ..... temperature -20 – 70 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa

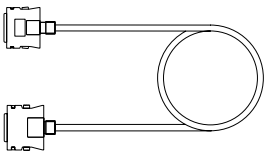
Accessories

GL2553 Foot holder MAJ-1205
4 pcs.

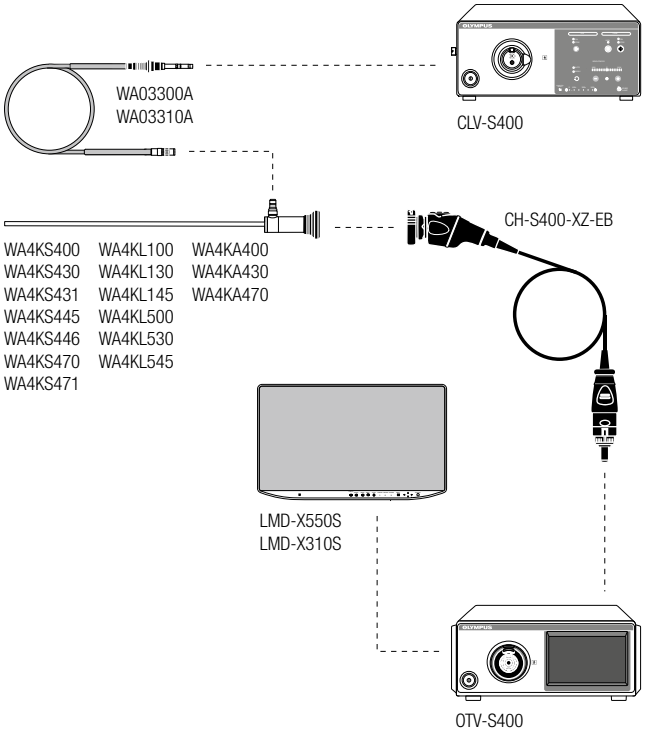


N3647300 Light source cable MAJ-1941

- Connects CLV-S400 to OTV-S400.



System Chart

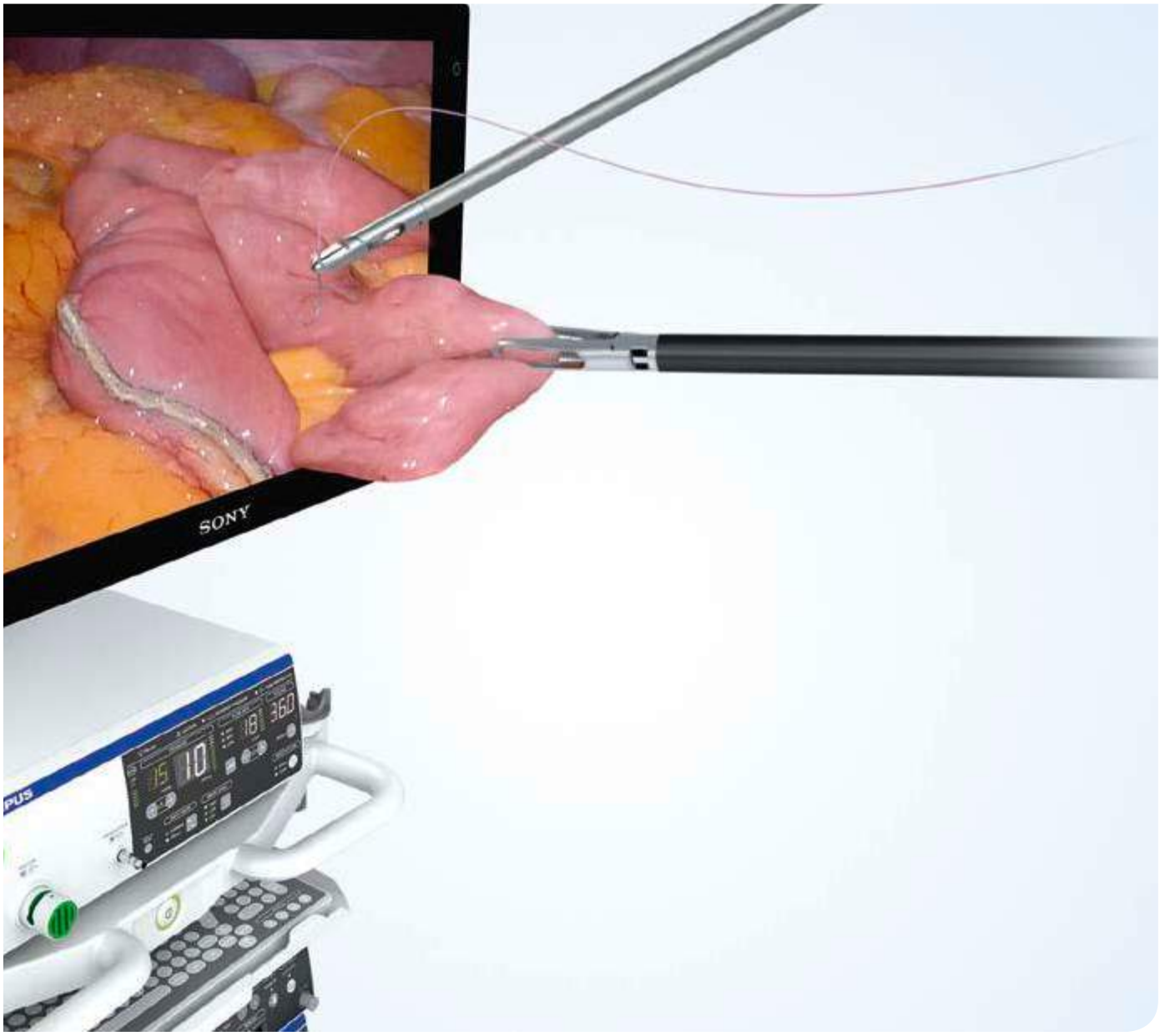


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3D Imaging Solution

Achieve a New Perspective



Introducing a new 3D imaging solution that provides depth perception and a precise spatial view of anatomy that cannot be achieved with traditional 2D systems. The OLYMPUS 3D solution is a fusion of advanced 3D technology which overcomes the limitations of conventional 3D systems, providing a new perspective on surgical imaging.

- Improved speed
- Greater accuracy and precision
- Shorter learning curve

ENDOEYE FLEX 3D

The only solution that can provide the critical clinical view while maintaining image orientation. A greater depth of field and the optimal amount of depth perception are also realized with the 3D HD image. We are proud to introduce this innovative solution for 3D imaging.

Add 3D to Your Current System

Olympus 3D Imaging Solution ensures compatibility with our current 2D scopes to provide an economical means of upgrading your video system with minimal incremental cost. Our video platform supports over 100 different flexible and rigid camera heads, videoscopes and endoscopes.

ENDOALPHA

With ENDOALPHA, Olympus offers visionary control, communication, video management and documentation solutions that integrate the complete range of medical equipment and peripheral systems in the operating and intervention rooms.

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3DV-190

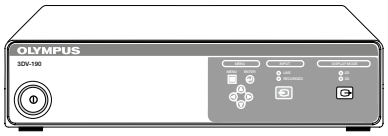
3D Visualization Unit



- The 3DV-190 integrates the left and right images provided by two CV-190 video system centers, and outputs the 3D signal to 3D monitors and recorders in an optimal format (two CV-190 units required).
- 3D output (3G-SDI, DVI-D) to multiple monitors is available.
- 2D and 3D observation modes can be switched easily by remote button.
- Several 3D formats (3G, LINE BY LINE, SIDE BY SIDE) are selectable.
- 3D SIDE BY SIDE image can be output to recorders through HD-SDI.
- NBI (Narrow Band Imaging) is easily available during surgery in both 2D and 3D.

3D Visualization Unit

N4491360 3D Visualization Unit “3DV-190”



Delivery includes:
Visualization unit, power cable, foot holder MAJ-2054 (4 pcs.), SDI cable MAJ-2014 (2 pcs.), SDI cable MAJ-2053 (2 pcs.), 3G-SDI cable MAJ-2015, remote cable MAJ-1919

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 100 VA

Size
- Dimensions, ... standard width 370 mm, height 85 mm, depth 454 mm
- Dimensions, maximum ..... width 370 mm, height 85 mm, depth 478 mm
- Weight ..... 7.7 kg

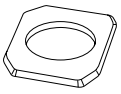
Safety
- Protection against electric shock ..... class I
- Directive 93/42/EEC ..... class I

Observation
- Signal format ..... HDTV signal
- 3D output ..... 3G-SDI Level B, DVI-D
- 2D output ..... HD-SDI, DVI-D

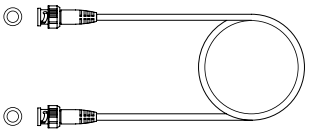
Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Accessories

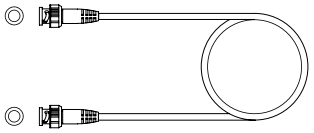
on request Foot holder “MAJ-2054”



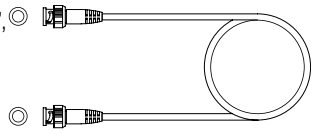
N4491600 SDI cable “MAJ-2014”, for master, 1.0 m



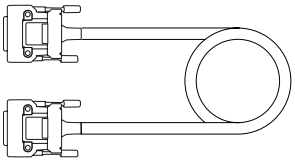
N4491700 SDI cable “MAJ-2053”, for slave, 1.0 m



N4491400 3G-SDI cable “MAJ-2015”, 3.0 m



N3646400 Remote cable “MAJ-1919”, for CV-CV



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LTF-190-10-3D

3D ENDOEYE FLEX Deflectable Videoscope



The 3D ENDOEYE FLEX utilizes high-density image sensors at the distal end of the videoscope, providing 3D images in high definition.

- Bends up to 100 degrees in four directions.
- Focus-Free
- The 3D ENDOEYE FLEX provides improved speed, accuracy and precision regardless of skill level, while helping to shorten the learning curve for surgical tasks.
- The viewing mode is easily switched between 2D and 3D.
- NBI (Narrow Band Imaging) in 2D/3D

HD ENDOEYE FLEX 3D

N4501750 Videoscope “LTF-190-10-3D”

Delivery includes:
Videoscope, sterilization cap MAJ-1538, leakage tester

Technical Data

Optical system
- Field of view ..... 80°
- Direction of view ..... 0°
- Depth of field ..... 18 – 100 mm

Insertion portion
- Distal end outer diameter ..... Ø 10 mm
- Rigid section outer diameter ..... Ø 10 mm
- Working length ..... 370 mm

Bending section
- Angulation range ..... 100° up, 100° down
  100° right, 100° left

Total length ..... 3600 mm

Compatibility
- NBI observation mode ..... available
- HF treatment ..... compatible
- Laser treatment ..... not compatible

Safety
- Directive 93/42/EEC ..... class IIa
- Protection against electric shock ..... type BF applied part

Ambient conditions
- Operation ..... temperature 10 – 40 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -47 – 70 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa

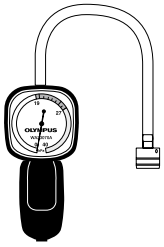
Reprocessing

N2639830 Sterilization cap “MAJ-1538”



WA23070A Leakage tester,
for flexible Olympus endoscopes

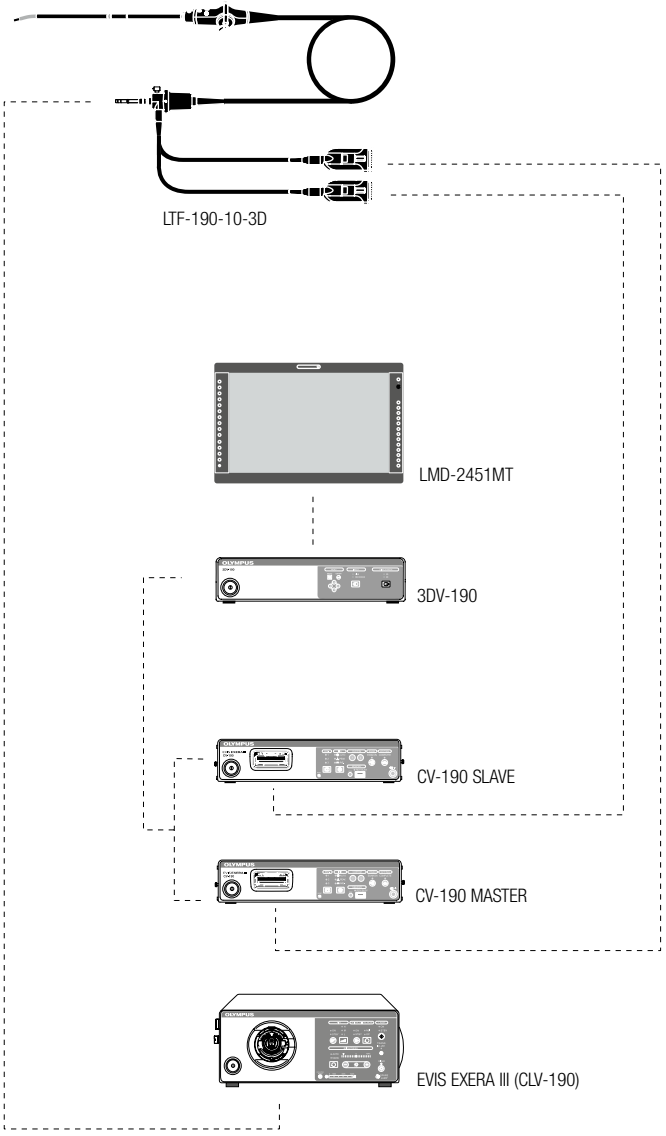
- For manual use
- With indicator
- For all Olympus surgical fiberscopes and videoscopes



Rigid Sheath

N4501830 Rigid sheath "MAJ-2079",
for LTF-190-10-3D

System Chart



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CV-190

EVIS EXERA III Video Processor



EVIS EXERA III

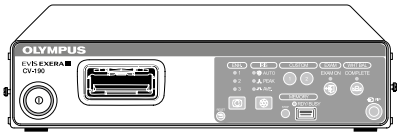
HDTV

NBI

- Compatible with all 3D and 2D video endoscopes and camera heads
- NBI (Narrow Band Imaging) offers much greater contrast between blood vessels and mucosa.
- Improved image processing delivers enhanced color reproduction, minimised image noise and reduced halation
- The pre-freeze function automatically selects the clearest still image
- 16:9 and 16:10 output for an HDTV monitor are available; compatible with analogue, HD-SDI and DVI output
- Portable memory is compatible – standard for data management: simply connect and upload

EVIS EXERA III Video System Center

N3643260 EVIS EXERA III video system center “CV-190”



Delivery includes:
Video system center, keyboard MAJ-1922, SDI cable MAJ-1951, foot holder MAJ-1433, white cap set MAJ-941, scope cable holder MAJ-1466, portable memory MAJ-1925, power cable

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 150 VA

Size
- Dimensions, standard ..... width 370 mm, height 85 mm, depth 455 mm
- Dimensions, maximum ..... width 382 mm, height 91 mm, depth 489 mm
- Weight ..... 10.7 kg

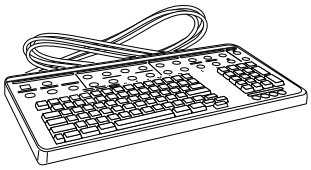
Safety
- Protection against electric shock ..... class I
- Directive 93/42/EEC ..... class I

Observation
- Analog HDTV output ..... RGB (1080/50i), YPbPr (1080/50i)
- Analog SDTV output ..... VBS composite (576/50i: PAL), Y/C (576/50i: PAL), RGB (576/50i: PAL)
- Digital signal output ..... SDI (HD-SDI or SD-SDI), DV (IEEE1394), DVI (WUXGA, 1080p or SXGA)

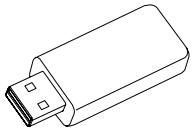
Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Accessories

N3646760 Keyboard “MAJ-1922”

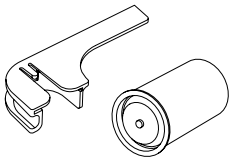


N3647000 Portable memory “MAJ-1925”

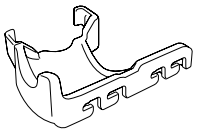


6882800 White cap set “MAJ-941”

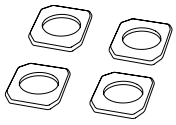
For white balance, includes white cap MH-155 and white cap holder MAJ-960.



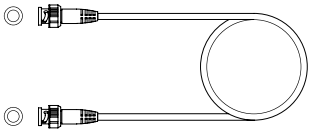
N2486100 Scope cable holder “MAJ-1466”



N2486000 Foot holder “MAJ-1433” 4 pcs.



N3647800 SDI cable “MAJ-1951”



Camera Heads

For compatible camera heads, see page 593.

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CLV-190

EVIS EXERA III Xenon Light Source



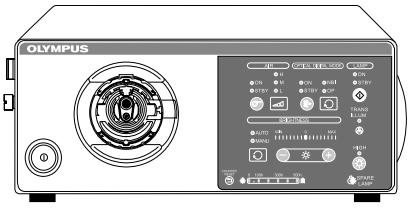
- Compatible with all 3D and 2D video endoscopes and light-guide cables
- Improved NBI (Narrow Band Imaging) thanks to an improved lamp design and signal processing.
- Considerable reduction in operating noise thanks to a redesigned fan.
- Automatic light adjustment to achieve ideal illumination for observation with each scope.
- Optional: specially coated filters for PDD (Photodynamic Diagnosis)

EVIS EXERA III

NBI

EVIS EXERA III Xenon Light Source

N3643350 EVIS EXERA III xenon light source “CLV-190”



Delivery includes:
Light source, light source cable MAJ-1941, foot holders MAJ-1205, power cable, water container MAJ-901

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 600 VA

Size
- Dimensions, standard ..... width 370 mm, height 150 mm, depth 476 mm
- Dimensions, maximum ..... width 390 mm, height 162 mm, depth 551 mm
- Weight ..... 19 kg

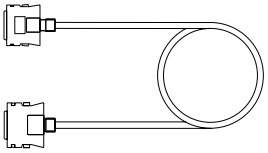
Illumination
- Examination lamp ..... Xenon short-arc lamp, 300 W
- Average lamp life ..... approx. 500 hours (on continuous use)
- Brightness adjustment ..... light-path diaphragm control
- Cooling ..... forced-air
- Intensity mode ..... normal or intensity
- NBI observation ..... available
- PDD observation ..... with special purpose filter
- Color conversion ..... with special purpose filter
- Emergency lamp ..... halogen lamp, 12 V, 35 W
- Average emergency lamp life ..... approx. 500 hours

Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Accessories

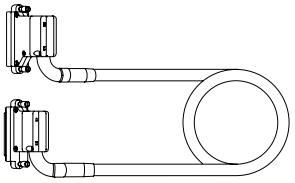
N3647300 Light source cable “MAJ-1941”

Connects CLV-190 to CV-190 or OTV-S190.

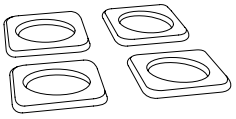


N3647100 Digital light source cable “MAJ-1933”

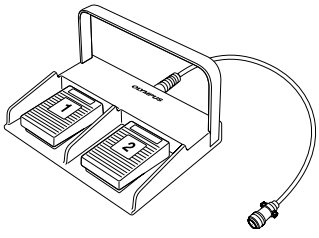
Connects CLV-190 to CV-190.



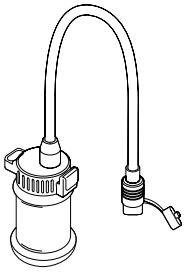
GL2553 Foot holder “MAJ-1205” 4 pcs.



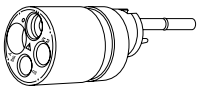
N2486200 Foot switch “MAJ-1391”



GC7271 Water container “MAJ-901”



N1052830 Light-guide adapter “MAJ-1200”



Contact Olympus for compatible light-guide cables.

N2504640 PDD filter set “MAJ-1429” (not shown)

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Surgical Imaging Platform



The surgical imaging platform serves as a hub to connect rigid and flexible scopes across multiple specialties, thereby standardizing training, reprocessing and service to achieve OR efficiencies. It also links with a number of digital devices and networks to provide image, video management and documentation.

OTV-S190

- Equipped with high-resolution HDTV imaging capability, even for 5 mm videoscopes.
- HD-SDI (for 1080i) and DVI (for 1080p) outputs are provided to suit your preference.
- Compatibility of user-friendly portable memory interface.

ENDOALPHA

- With ENDOALPHA, Olympus offers visionary control, communication, video management and documentation solutions that integrate the complete range of medical equipment and peripheral systems in the operating and intervention rooms.

TUR Camera Head

- Compact, lightweight 45g design camera head with improved maneuverability helps reduce stress during long procedures in TUR and rigid cystoscopy.

PDD

- Unique filter-incorporated design specially made to maximize the performance of PDD observation.

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OTV-S190

VISERA ELITE Video System Center



VISERA ELITE

HDTV

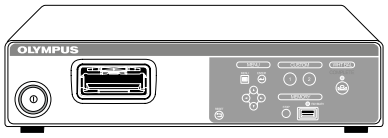
NBI

PDD

- Equipped with high-resolution HDTV imaging capability (16:9 and 5:4) to provide the best possible image quality for flexible and rigid endoscopes. Enables comprehensive observation of different organs and tissue.
- Compatible with a wide range of endoscopes and camera heads, both for office and OR.
- NBI is a proprietary optical image enhancement technology that is only available on Olympus products. NBI enhances the visualization of vessels and other tissues on the mucosal surface and is 20% brighter than previous models.
- Two types of structure enhancement are available: Type A for observation of larger mucosal structures with high contrast, and Type B for observation of smaller structures such as capillaries.
- HD-SDI (for 1080i) and DVI (for 1080p) output for high-quality video image transfer.
- Convenient digital-to-digital recording of still images into portable memory.
- Pre-freeze function improves the quality of still image for flexible scopes.

VISERA ELITE Video System Center

N3643860 Video system center “OTV-S190”



Delivery includes:
Video system center, SDI cable MAJ-1951,
4 foot holders MAJ-1433, portable memory MAJ-1925,
power cable

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 500 VA

Size
- Dimensions, standard ..... width 370 mm, height 150 mm, depth 474 mm
- Dimensions, maximum ..... width 383 mm, height 162 mm, depth 536 mm
- Weight ..... 14.9 kg

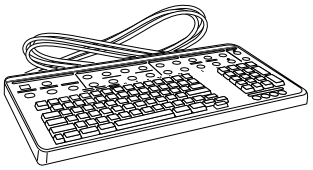
Safety
- Protection against electric shock ..... class I
- Degree of protection against electric shock ..... depends on applied part
- Directive 93/42/EEC ..... class I

Observation
- HDTV signal output ..... YP_BP_R and RGB 1080/50i, HD-SDI 1080/50i, DVI 1080/50p
- SDTV signal output ..... VBS composite 576/50i: PAL, Y/C 576/50i: PAL, YP_BP_R and RGB 576/50i: PAL
- DVI output ..... 1920 x 1080 (1080p), 1920 x 1200, 1280 x 1024
- Aspect ratio 16:10, 16:9, 4:3, 5:4

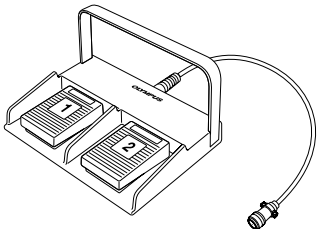
Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

Accessories

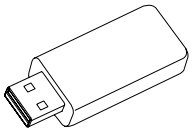
N3646760 Keyboard “MAJ-1922”



N2486200 Foot switch “MAJ-1391”



N3647000 Portable memory “MAJ-1925”



OTV-S190

VISERA ELITE Video System Center (cont.)

HD Autoclavable Camera Heads

- Full HD 3CCD
- Enhanced resolution and control
- Autoclavability
- NBI (Narrow Band Imaging)
- Three fully programmable remote switches
- Optical zoom via remote control
- Focus via remote control

N3804860 Camera head “CH-S190-XZ-E”, autoclavable, eyepiece type (clamping connector)



N3804760 Camera head “CH-S190-XZ-Q”, autoclavable, quick-lock type (quick-lock connector)



Technical Data

Size
- Dimensions, CH-S190-XZ-E ..... width 50 mm, height 63 mm, depth 142 mm
- Dimensions, CH-S190-XZ-Q ..... width 45 mm, height 58 mm, depth 161 mm
- Weight ..... 350 g
- Cable ..... Ø 6.8 mm x 3 m

Safety
- Protection against electric shock ..... class I
- Degree of protection against electric shock ..... type BF

Observation
- Magnification ratio ..... 0.9x – 1.8x
- Focal distance ..... f = 15.8 – 31.3 mm

Remote switches
- Programmable 3x
- Optical zoom adjustment 2x
- Focus adjustment 2x

HD Urology Camera Head

- Ultralight and easy to operate: Only 65 g – the weight of a fountain pen
- Crystal clear, brilliant and true-to-life
- Full HD camera head with NBI – a unique combination for bladder cancer resection
- Same color mode for NBI in flexible cystoscopy (CYF endoscope) and TUR (camera head plus resectoscope)

N4488560 Camera head “CH-S190-08-LB”, L-shape, eyepiece type (clamping connector)



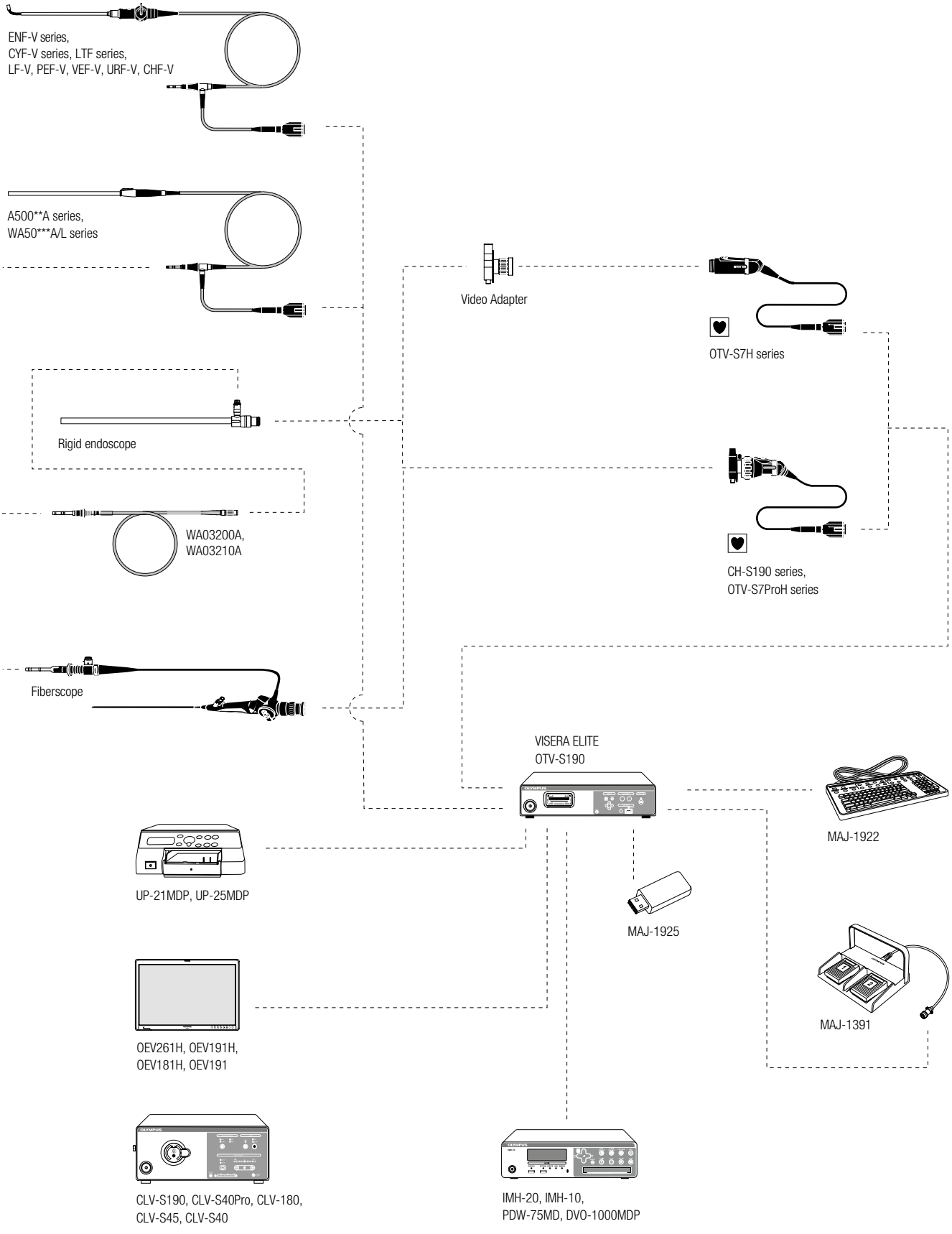
Technical Data

Size
- Dimensions ..... Ø 26 mm, length 83 mm
- Weight ..... 65 g (head part), 20 g (remote control part)
- Cable ..... Ø 3.3 mm x 3.5 m

Safety
- Directive 93/42/EEC ..... class I
- Degree of protection against electric shock ..... type BF

Remote switches
- Programmable 3x

System Chart



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CLV-S190

VISERA ELITE Xenon Light Source



VISERA ELITE

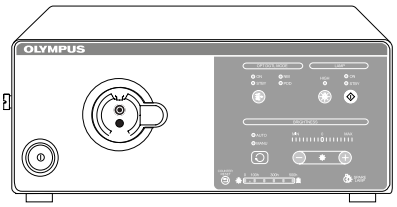
NBI

PDD

- Equipped with specially coated filters for NBI (Narrow Band Imaging).
- Optional specially coated filters for PDD (Photodynamic Diagnosis).
- Automatically adjusts light intensity to achieve ideal illumination for observation.
- Powerful 300-watt xenon lamp
- Backlit front panel indicators and controls improve operability.
- Automatic switching to emergency lamp

VISERA ELITE Light Source CLV-S190

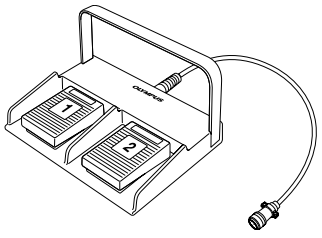
N3643950 Light source “CLV-S190”



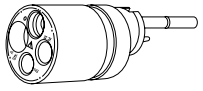
Delivery includes:
Light source, 4 foot holders, light source cable MAJ-1959, power cable

Accessories

N2486200 Foot switch “MAJ-1391”



N1052830 Light-guide adapter “MAJ-1200”



Contact Olympus for compatible light-guide cables.

N2504640 PDD filter set “MAJ-1429” (not shown)

Spare Bulbs

028148 Spare bulb “MD-631” (not shown), xenon

028133 Spare emergency bulb (not shown), halogen

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 500 VA

Size
- Dimensions, standard ..... width 370 mm, height 150 mm, depth 474 mm
- Dimensions, maximum ..... width 383 mm, height 162 mm, depth 536 mm
- Weight ..... 14.9 kg

Safety
- Protection against electric shock ..... class I
- Degree of protection against electric shock ..... depends on applied part
- Directive 93/42/EEC ..... class I

Illumination
- Examination lamp ..... xenon short-arc lamp, 300 W
- Average lamp life ..... 500 hours
- Brightness control ..... light-path diaphragm control
- Emergency lamp ..... halogen lamp 12 V, 35 W

Ambient conditions
- Operation ..... temperature 10 – 40 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -25 – 70 °C, relative humidity 10 – 90 %, atmospheric pressure 700 – 1060 hPa

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OTV-SC2

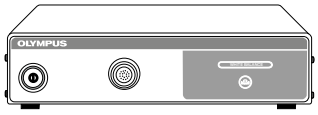
Office Video System



- Camera head with 1/4-inch CCD and built-in moiré reduction filter delivers clear images with its compact, lightweight and ergonomic design.
- Responding to the needs of outpatient facilities, the system is compatible with various types of endoscopes such as fiberscopes, telescopes and colposcopes.
- Simple, easy-to-use design focused on easier operation. Same width as the CLL-V1 LED light source.
- DVI output compatibility delivers improved connectability with almost all types of monitors, both analog and digital.

OTV-SC2 Office Video System

N5401160 OTV-SC2 video system



Delivery includes:
Video system, CH-SC2-1D camera head, foot holder (4 pcs.), MB-677 BNC cable, pattern sheet, power cable

Technical Data

Power supply
- Voltage ..... 220 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 45 VA

Size
- Dimensions, ... standard width 295 mm
  height 69 mm
  depth 376 mm
- Dimensions, maximum ..... width 312 mm
  height 80 mm
  depth 401 mm
- Weight ..... 4.9 kg

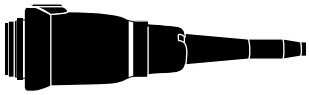
Output
- Analog ..... 2x VBS composite, 1x Y/C
- Digital ..... 1x DVI

Safety
- Type of protection against electric shock ..... class I
- Degree of protection against electric shock of applied part ..... TYPE BF
- Directive 93/42/EEC ..... class I

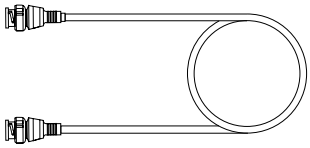
Ambient conditions
- Operation ..... temperature 10 – 40 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Storage ..... temperature 5 – 40 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa
- Transport ..... temperature -20 – 70 °C
  relative humidity 10 – 95 %
  atmospheric pressure 700 – 1060 hPa

Accessories

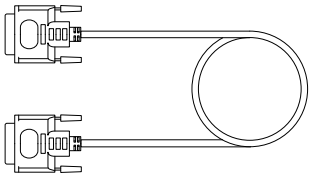
N5400860 CH-SC2-1D camera head



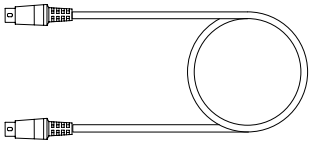
027913 BNC cable MB-677, 1.5 m



N3647500 DVI cable MAJ-1945



E0482003 S-video cable MH-985

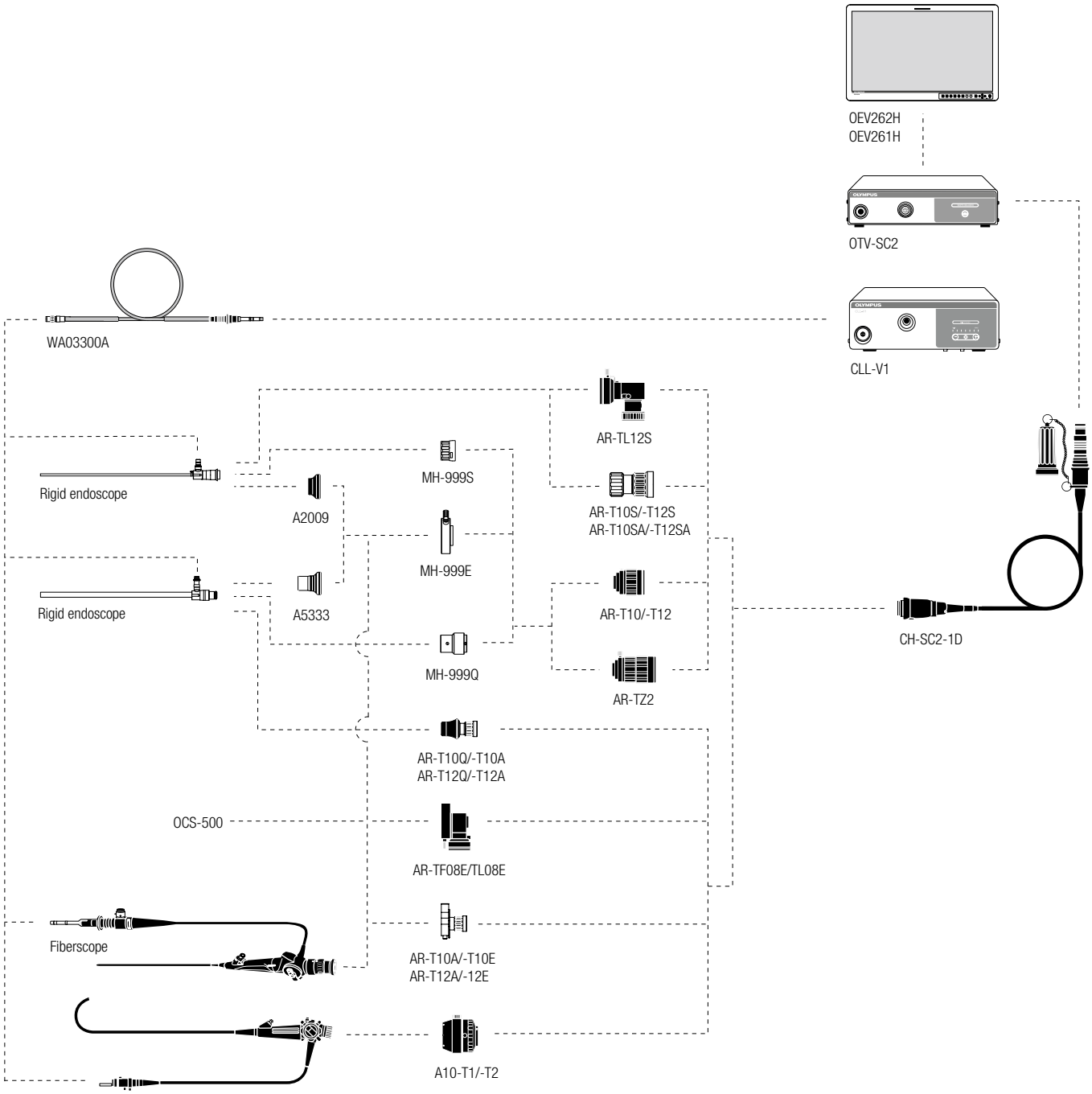


For a system chart, see page 599.
For video adapters, see page 600.

OTV-SC2

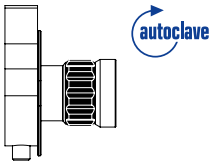
Office Video System (cont.)

System Chart

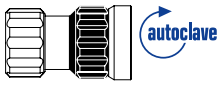


Autoclavable Video Adapters

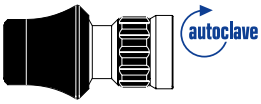
	Video adapter, eyepiece type, autoclavable,
A4210A	"AR-T10EA", 1.0x
A4211A	"AR-T12EA", 1.2x



A4212A	Video adapter, screw type, autoclavable, "AR-T10SA", 1.0x

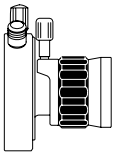


	Video adapter, quick-lock type, autoclavable,
A4214A	"AR-T10QA", 1.0x
A4215A	"AR-T12QA", 1.2x

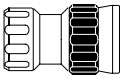


Video Adapter

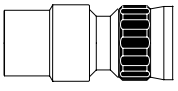
	Video adapter, eyepiece type,
A8960	"AR-T10E", 1.0x
A8963	"AR-T12E", 1.2x



	Video adapter, screw type,
A8961	"AR-T10S", 1.0x
A8964	"AR-T12S", 1.2x



	Video adapter, quick-lock type,
A8962	"AR-T10Q", 1.0x
A8965	"AR-T12Q", 1.2x

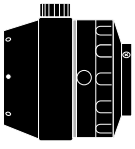


	Video adapter, L-shape, eyepiece type,
A4923	"AR-TF08E", 0.8x, with viewfinder
A4924	"AR-TL08E", 0.8x



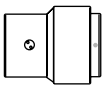
Video Adapter for OES Fiberscopes

	Video adapter, for OES fiberscopes (gastroscopes etc.),
A4929	"A10-T1", 1.0x
A4930	"A10-T2", 2.0x



Video Couplers

A4925	Video coupler "MH-999Q", quick-lock type



A4926	Video coupler "MH-999E", eyepiece type



A4927	Video coupler "MH-999S", screw type



Video Adapters for Couplers

For use with video couplers MH-999Q/E/S.

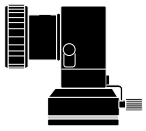
	Video adapter,
A4921	"AR-T10", 1.0x
A4920	"AR-T12", 1.2x



A4922	Video adapter "AR-TZ2", zoom type, 1.0–2.0x



A4928	Video adapter "AR-TL12S", L-shape



OLYMPUS

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CLL-S1

StrobeLED

Stroboscopy LED Light Source





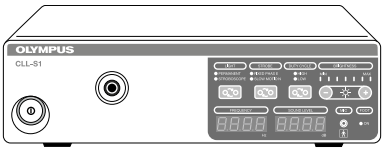


StrobeLED is the stroboscopy light source from Olympus that is specially designed for laryngologists and voice experts. It enables incredibly precise and noise-free examination and diagnosis of voice disorders.

- Reliable stroboscopy algorithm:
  No flickering in video, no blackouts
- Great illumination in permanent and stroboscopy mode
- Noise-free:
  No side tone distraction during examination
- Adjustable duty cycle:
  Choice between more resolution or more brightness, depending on the application
- Low energy consumption (< 55W):
  Low lifetime costs and environmentally friendly compared to conventional lamps

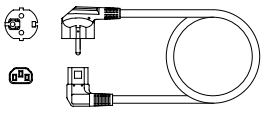
StrobeLED

WA97010A Light source “OLYMPUS CLL-S1”, for stroboscopy

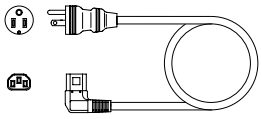


Delivery includes:
Light source, foot switch, microphone (incl. extension cable), 2 BNC cables, 4 foot holders, 2 spare fuses

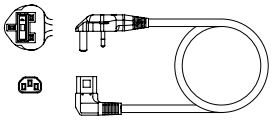
WA95621A Power cable, type E/F (CEE 7/7)



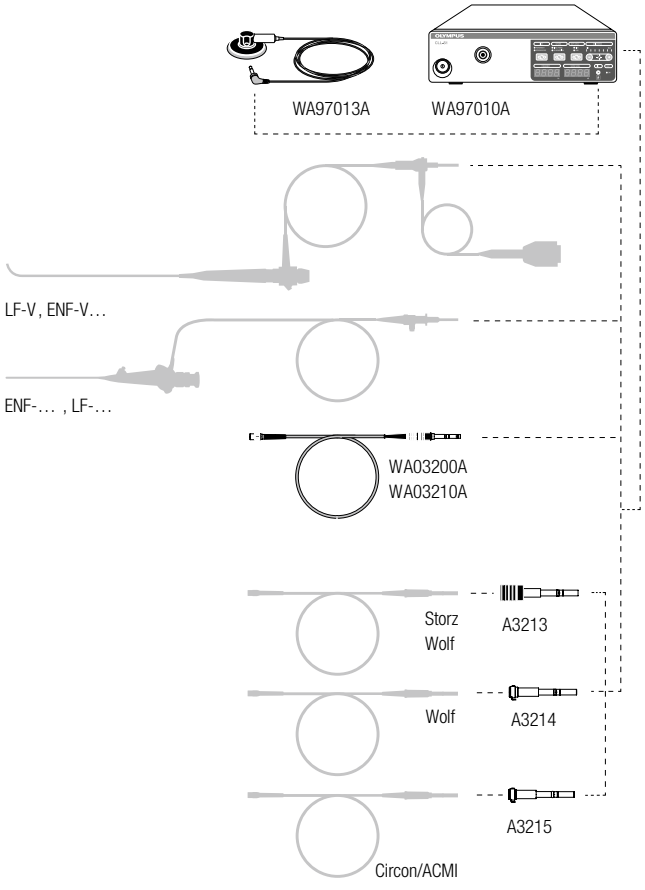
WA95622A Power cable, type B (NEMA 5-15)



WA95623A Power cable, type G (BS 1363)

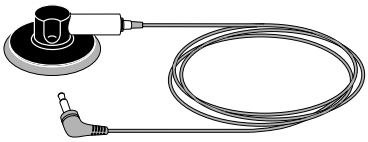


System Chart



Accessories

WA97013A Throat microphone



Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 100 VA
- Fuse ..... T 3.15 A 250 V

Size
- Dimensions ..... width 370 mm, height 111 mm, depth 475 mm
- Weight ..... 7.85 kg

Safety
- Protection class acc. to IEC 60601-1 ..... BF
- Ingress protection rate IPX0

Illumination
- Lamp ..... LED
- Operating hours ..... 2,000 hours

Microphone
- Cable length ..... 1 m
- Length of extension cable ..... 1 m
- Type ..... electret condenser microphone
- Polar pattern ..... omnidirectional
- Frequency response ..... 100 – 12,000 Hz
- Sensitivity ..... -42 dB at 1 kHz
- Output impedance ..... 2.2 kΩ

Audio/Video
- AUDIO OUT ..... line-level audio output with Vpp < 1 V
- VIDEO IN and VIDEO OUT ..... 75 Ω composite video signal

Ambient conditions
- Operation ..... temperature 10 – 38 °C, relative humidity 30 – 85 %, atmospheric pressure 700 – 1060 hPa
- Storage ..... temperature 10 – 40 °C, relative humidity 30 – 75 %, atmospheric pressure 500 – 1060 hPa
- Transport temperature ..... -29 – 70 °C, relative humidity 10 – 95 %, atmospheric pressure 500 – 1060 hPa

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CLL-V1

LED Light Source

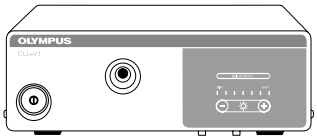


The CLL-V1 light source from Olympus is based on the latest LED technology and enables a bright examination with very low energy consumption.

- High brightness compared to conventional halogen light sources
- Homogeneous light distribution due to optimized lens design for a wide range of telescopes
- Constant light intensity over lifetime
- Low maintenance costs: No bulb exchanges required for at least 5,000 hours.
- Low lifetime costs due to low energy consumption of environmentally friendly LED technology

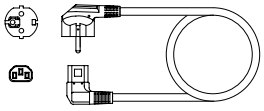
Light Source CLL-V1

WA97020A Light source “OLYMPUS CLL-V1”

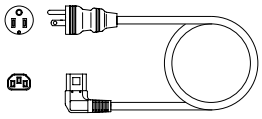


Delivery includes:
Light source, 4 foot holders, 2 spare fuses

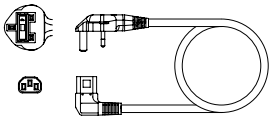
WA95621A Power cable, type E/F (CEE 7/7)



WA95622A Power cable, type B (NEMA 5-15)



WA95623A Power cable, type G (BS 1363)



Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 100 VA
- Fuse ..... T 3.15 A 250 V

Size
- Dimensions ..... width 295 mm
  height 111 mm
  depth 404 mm
- Weight ..... 6.3 kg

Safety
- Ingress protection rate IPX0

Illumination
- Lamp ..... LED
- Operating hours ..... 2,000 hours

Ambient conditions
- Operation temperature ..... 10 – 38 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Storage temperature ..... 10 – 40 °C
  relative humidity 30 – 75 %
  atmospheric pressure 500 – 1060 hPa
- Transport temperature ..... -29 – 70 °C
  relative humidity 10 – 95 %
  atmospheric pressure 500 – 1060 hPa

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Xenon E180

Xenon Light Source

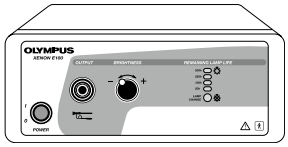


The Olympus Xenon E180 light source offers economical access to superior xenon technology.

- Bright image illumination by high intensity 180 W xenon lamp
- Excellent reliability due to lamp life counter
- Natural color recognition because daylight resembles xenon light

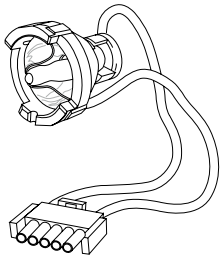
Light Source Xenon E180

WA58675A Light source “Xenon E180”, xenon, 180 W



Spare Lamp

WA58677A Lamp, xenon, 180 W, for WA58675A, 2 pcs.



Technical Data

Power supply
- Voltage ..... 100 – 240 V
- Frequency ..... 50/60 Hz
- Power consumption ..... 220 W

Size
- Dimensions ..... 275 (W) x 110 (H) x 327 (D) mm
- Weight ..... 6 kg

Classification
- Protection against electric shock ..... class 1 type BF

Lamp
- Type ..... Xenon
- Power ..... 180 W
- Lamp life ..... at least 500 hrs.[1]

[1] in intermittent use test cycle (1 hr. on, 1 hr. off)

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EndoLED

Miniature Light Source



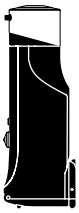


Mobility without compromise, brightness plus convenience: The Olympus EndoLED incorporates the latest LED technology, delivering unprecedented white light with excellent color reproduction.

- Color temperature similar to xenon light thanks to careful LED selection
- High brightness over the entire LED lifetime of 100,000 hrs
- Convenient battery concept using standard AA rechargeable batteries and a battery status indicator
- Ergonomic design for rigid and flexible endoscopes provides greater comfort
- Highest reprocessing standards: fully immersible, washer and disinfector compatible, sterilizable with Sterrad

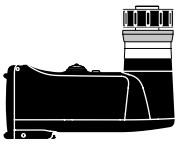
EndoLED Light Source

WA91500A Light source “EndoLED”,
for rigid endoscopes



for rechargeable batteries
(requires 2 batteries of WA91505A),
with battery status indicator (lasts up to 3 hrs.),
includes 2 adapter 00332

WA91502A Light source “EndoLED”,
for flexible endoscopes



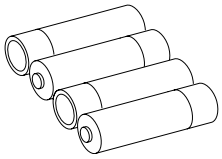
for rechargeable batteries
(requires 2 batteries of WA91505A),
with battery status indicator (lasts up to 3 hrs.)

Technical Data

Dimensions
- WA91500A ..... 34 (W) x 112 (H) x 39 (D) mm
- WA91502A ..... 70 (W) x 90 (H) x 35 (D) mm

Weight (without batteries)
- WA91500A ..... 140 g
- WA91502A ..... 119 g

WA91505A Battery,
AA type,
rechargeable,
4 pcs.



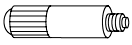
Miniature Light Source

- Fully immersible waterproof design
- Powered by the same lithium battery normally used in cameras.
- Halogen lamp for sufficient power duration and light intensity

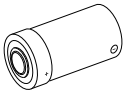
A9125 Light source “MAJ-524”,
for lithium batteries (not included),
battery life cycle 60 min



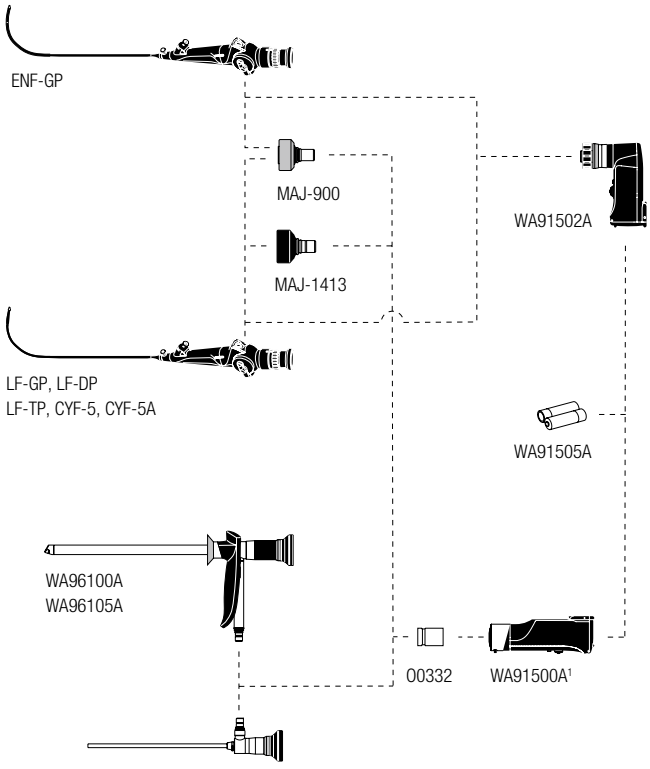
A9128 Spare lamp “MAJ-525”,
halogen, 5 pcs.,
for light source MAJ-524,
average life cycle 20 hrs.



A9126 Battery “CR123A/DL123A”,



System Chart



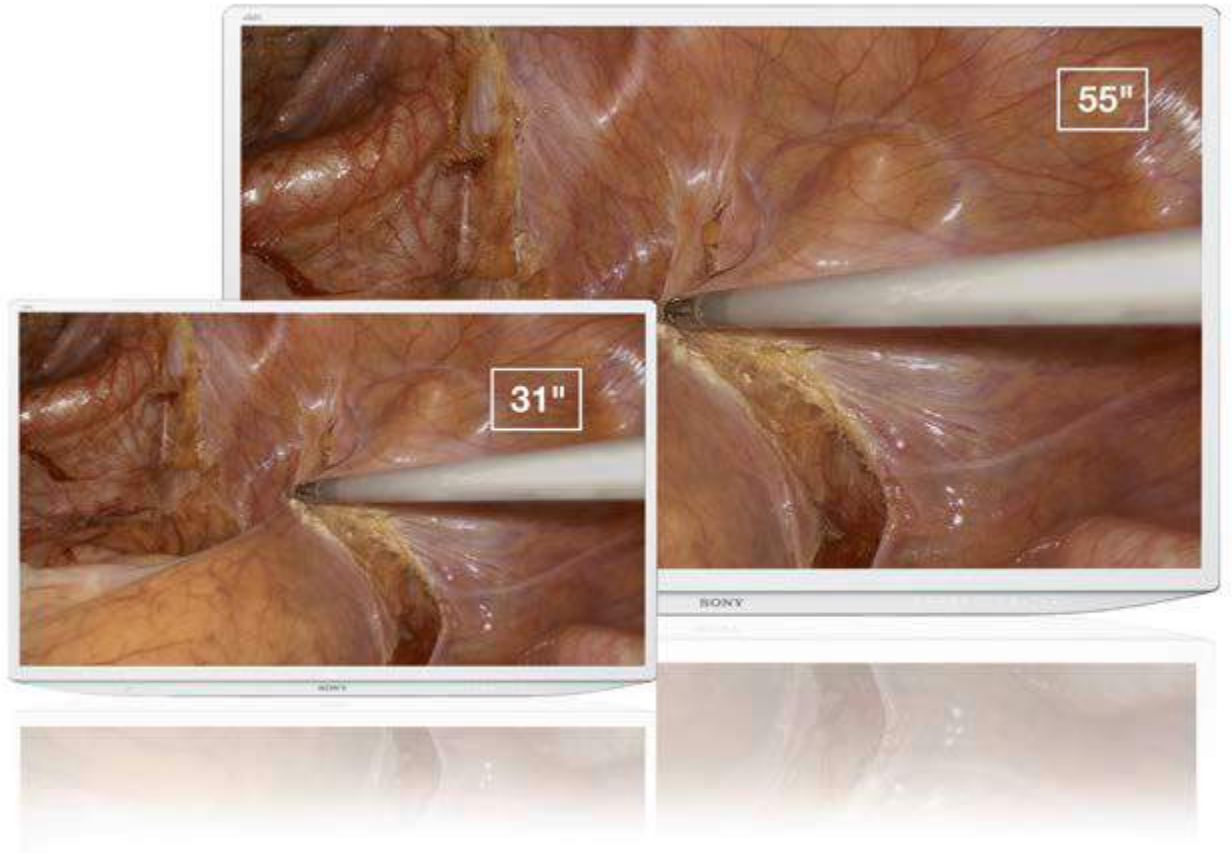
[1] Adapter MAJ-900 is recommended in case WA91500A is used with a flexible endoscope

OLYMPUS

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LMD-X550S
LMD-X310S

4K LCD Monitor



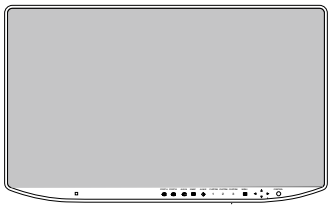
- Provides higher contrast with less color blurring thanks to OptiContrast™ panel technology
- Supports 4K resolution (4096 × 2160 / 3840 × 2160) and a wider color gamut
- Thinner and lighter compact design

4K

4K LCD Monitors

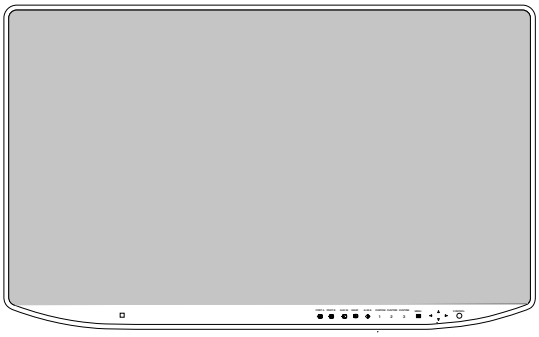
E0497703 LMD-X310S

Sony 31" 4K medical monitor



E0497704 LMD-X550S

Sony 55" 4K medical monitor



For VISERA 4K UHD system,
see page 573.

Technical Data

Power supply
- Voltage IN ..... 100 – 240 V ~
  (LMD-X310S via AC adapter AC-300MD)
- Frequency ..... 50/60 Hz
- Power consumption (LMD-X550S) ..... 3.2 A – 1.3 A
- Voltage OUT ..... 12 V =, 5.0 V =

Size LMD-X310S
- Dimensions ..... width 753.8 mm
  height 456.4 mm
  depth 69.3 mm
- Weight (monitor) ..... 11.8 kg

Size LMD-X550S
- Dimensions ..... width 1,264.6 mm
  height 771.5 mm
  depth 85.5 mm
- Weight (monitor) ..... 35.2 kg

Display
- Type ..... a-Si TFT active matrix LCD
- Resolution LMD-X310S ..... 4,096 x 2160 pixels
- Resolution LMD-X550S ..... 3,840 x 2160 pixels
- Efficient size LMD-X310S ..... 698 x 368 mm
- Efficient size LMD-X550S ..... 1210 x 680 mm
- Aspect ratio LMD-X310S 17:9
- Aspect ratio LMD-X550S 16:9

Input
- HDMI ..... 1x HDMI
- DVI-D ..... 1x DVI
- 3G/HD/SD-SDI ..... 5x BNC
- Serial remote ..... 1x D-sub 9-pin (RS-232C)
  1x RJ-45

Output
- DVI-D ..... 1x DVI
- 3G/HD/SD-SDI ..... 5x BNC

Safety
- Type of protection against electric shock ..... class I
- Ingress protection IPx2

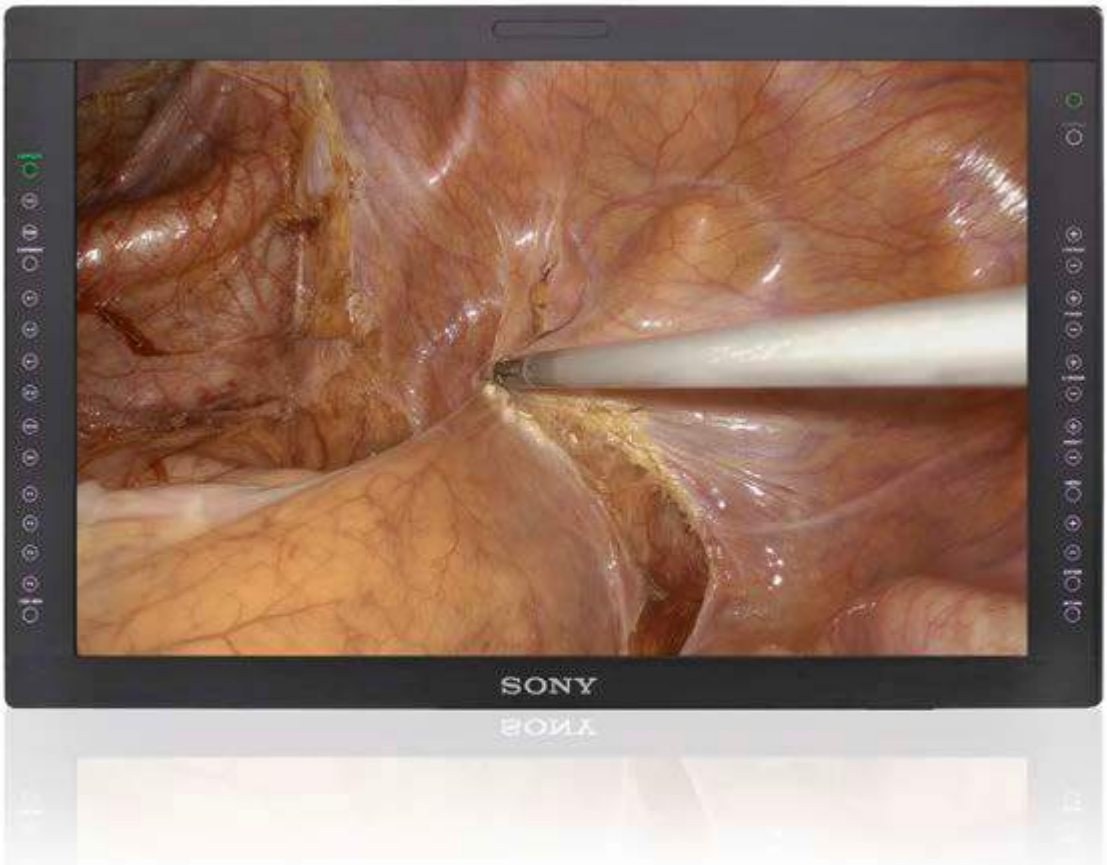
Ambient conditions
- Operation ..... temperature 10 – 35 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -20 – 60 °C
  relative humidity 0 – 90 %
  atmospheric pressure 700 – 1060 hPa

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Your Vision, Our Future

Sony LMD-2451MT

3D LCD 24 Inch Monitor



By displaying clear 3D pictures, the LMD-2451MT enables surgeons to gain full depth perception and spatial orientation during intricate procedures.

- Pioneering 3D quality with panel micro polarizer filter and passive glass technology.
- Extremely versatile, accepting various sources of 3D signal.
- Unique Sony color matching technology (ChromaTRU)
- The display utilizes super-wide aperture WUXGA (1920x1200) LCD panels.
- Key-inhibit function prevents inadvertent operation from the control panel.

3D LCD Monitor

E0497429 Monitor “Sony LMD-2451MT”, LCD

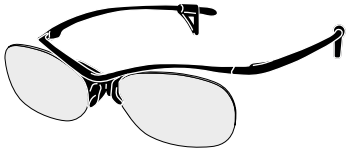


Delivery includes:
Monitor, AC adapter AC-110MD, power cable, plug holder (2 pcs.), 3D glasses (glasses-type, 1pc.), 3D glasses (clip-on type, 1 pc.)

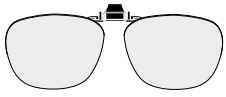
For EVIS EXERA III 3D visualization system, see page 579.

Glasses

E0497608 3D glasses BKM-30G



E0497609 Clip-on 3D glasses BKM-31G



Technical Data

Power supply (AC adapter AC-110MD)
- Voltage IN ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 1.53 – 0.58 A
- Voltage OUT ..... 24 V, 5.0 A
  5 V, 0.06 A

Size
- Dimensions ..... width 602.4 mm
  height 386.2 mm
  depth 110 mm
- Weight (monitor) ..... 8.8 kg
- Weight (AC adapter) ..... 1.2 kg

Display
- Type ..... a-Si TFT active matrix LCD with an AR-coated protection panel
- Resolution ..... 1920 x 1200 pixels (WUXGA)
- Effective size ..... 518.4 x 324.0 mm
- Diagonal ..... 613.2 mm
- Aspect ratio 16:10
- Colors ..... approx. 16.7 million colors (8-bit)

Input
- Composite ..... 1x BNC
- Y/C ..... Mini DIN 4-pin
- RGB, component ..... 3x BNC
- DVI-D ..... 1x DVI
- HD15 ..... 1x D-sub 15-pin
- SDI ..... 2x BNC (3G SDI, HD SDI, SD SDI)
- External sync ..... 1x BNC
- Options slots ..... 2 slots
- Parallel remote 1x 8-pin
- Serial remote ..... 1x D-sub 9-pin (RS-232C)
  1x RJ-45

Output
- Composite ..... 1x BNC
- Y/C ..... 1x mini DIN 4-pin
- RGB, component ..... 3x BNC
- SDI ..... 2x BNC (3G SDI, HD SDI, SD SDI)
- External sync ..... 1x BNC
- auto termination ..... 75 Ω

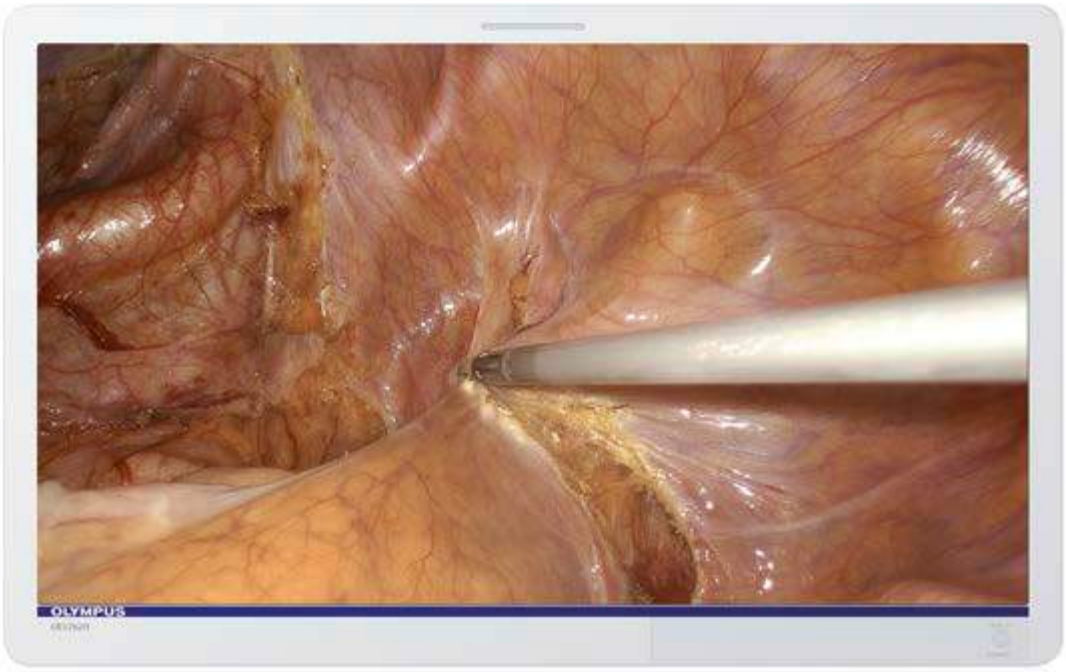
Ambient conditions
- Operation ..... temperature 10 – 35 °C
  relative humidity 30 – 85 %
  atmospheric pressure 700 – 1060 hPa
- Transport and storage ..... temperature -20 – 60 °C
  relative humidity 0 – 90 %
  atmospheric pressure 700 – 1060 hPa

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OEV262H

26 Inch High-Definition LCD Monitor

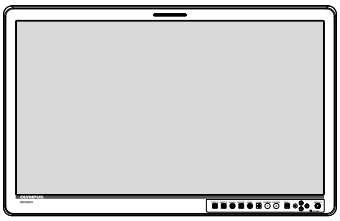


26-inch full-HD LCD panel with a 16:9 aspect ratio, high brightness, high contrast, and high gradation images.

- FLIP function (such as mirror and 180° rotation) which provides a suitable display pattern and monitor layout for the procedure.
- Multimodality display capability (picture-in-picture, picture-out-picture and clone out)
- Eco-friendly specifications thanks to low power consumption, various power-saving modes, and a lightweight and thin body.
- A.I.M.E (Advanced Image Multiple Enhancer) which provides support by enhancing the image quality of the Olympus endoscope system.

High Definition LCD Monitor

N5374360 OEV262H
26" HD monitor



Delivery includes:
Monitor, power cable

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 0.96 A – 0.47 A

Size
- Dimensions ..... 626.8 (W) x 395.2 (H) x 79.6 (D) mm
- Weight ..... 8.4 kg

Display Panel
- LCD panel ..... a-Si TFT active matrix
- Screen size (diagonal) ..... 660.9 mm, 26.0"
- Aspect ratio 16:9
- Resolution ..... 1920 x 1080 pixels
- Display colors ..... approx. 1,073,741,824
- View angle ..... 89°/89°/89°/89° (up/down/left/right)

Signal input
- Composite video ..... BNC
- Y/C (S-Video) ..... 4-pin mini-DIN
- SDI ..... 2x BNC
- HD15 ..... D-Sub 15-pin
- DVI-I 2x
- Serial remote ..... D-Sub 9-pin (RS-232C)

Signal output
- Composite video ..... BNC, loop-through, auto 75 Ω termination
- Y/C (S-Video) ..... 4-pin mini-DIN, active through out
- SDI ..... 2x BNC, active through out
- HD15 ..... D-Sub 15-pin
- DVI ..... 2x DVI-I, switched out

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IMH-20

Image Management Hub



The high-end model:
two-channel imaging and network compatibility

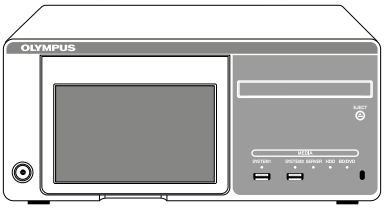
- Touch-panel display
  Touch-panel display on the hub lets you do what you want, when you want. While watching the monitor image, the touch panel allows you to record or capture in real time.

- System connection
  IMH-20 hubs will link to all Olympus systems. This reduces input time and helps make management more efficient.

- Two-channel simultaneous recording
  Two camera systems (e.g. 2D and 3D) can be fitted to a single IMH-20 hub in order to record videos and images from two separate sources at the same time. The images can be recorded as separate files or as a single file so they appear together on a display panel. The hub simultaneously records the image on its hard disk drive as well as external media.

Image Management Hub

N3808560 Image management hub “IMH-20”



Delivery includes:
Hub, remote controller, blu-ray disc

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Input current ..... 1.9 – 0.8 A

Size
- Dimensions ..... width 370 mm
  height 167.5 mm
  depth 413 mm
- Weight ..... 10.7 kg

Safety
- Protection against electric shock ..... class I

Input
- VIDEO 2xBNC
- Y/C ..... 2x 4 pin mini DIN
- SDI ..... 2x BNC
- DVI ..... 2x DVI-D
- AUDIO ..... 1x stereo mini pin
- Control signals ..... 3x stereo mini pin

Output
- VIDEO ..... 1x BNC
- Y/C ..... 2x 4 pin mini DIN
- SDI ..... 1x BNC
- DVI ..... 1x DVI-D
- Maintenance monitor ..... D-SUB 15 pin
- AUDIO ..... 1x stereo mini pin
- Control signals ..... 1x stereo mini pin

Interfaces for peripherals
- RS-232 input ..... 2x D-SUB 9 pins
- System ..... 4x USB (USB 2.0)
- SERVER 1x RJ-45 (1000Base-T/100Base-TX)

Ambient conditions
- Operation temperature ..... 10 – 40 °C
  relative humidity 30 – 80 %
  atmospheric pressure 700 – 1040 hPa
- Transport and storage ..... temperature -20 – 60 °C
  relative humidity 20 – 90 %
  atmospheric pressure 700 – 1040 hPa

Recording

Recording media
- Built-in hard disk ..... 500 GB
- Blu-ray disc ..... BD-R (25 GB), BD-R DL (50 GB),
  BD-RE (25 GB), BD-RE DL (50 GB)
- DVD ..... DVD-R (4.7 GB), DVD-R DL (8.5 GB)
- USB ..... USB flash drive,
  USB hard disk

File formats
- Moving images ..... MPEG-4 AVC/H.264 (images)
  MPEG2 AAC (audio)
- Still images ..... BMP/TIFF/JPEG

Recording time (built-in hard disk)
- Best (HDTV) ..... approx. 44 hours
- High (HDTV) ..... approx. 73 hours
- Standard (HDTV) ..... approx. 152 hours
- Best (SDTV) ..... approx. 227 hours
- High (SDTV) ..... approx. 364 hours
- Standard (SDTV) ..... approx. 606 hours

Number of recorded still images (built-in hard disk)
- BMP (HDTV) ..... 40,960 frames
- BMP (SDTV) ..... 204,800 frames
- TIFF (HDTV) ..... 40,960 frames
- TIFF (SDTV) ..... 204,800 frames
- JPEG (Best HDTV) ..... 163,840 frames
- JPEG (High HDTV) ..... 327,680 frames
- JPEG (Standard HDTV) ..... 655,360 frames
- JPEG (Best SDTV) ..... 819,200 frames
- JPEG (High SDTV) ..... 1,638,400 frames
- JPEG (Standard SDTV) ..... 3,276,800 frames

IMH-10

Image Management Hub



The standard model:
easy to use, easy to understand

- Video and image storage at the same time, no matter whether it's 3D or 2D

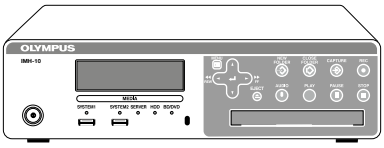
- User-friendly management and search functions
  Just push the new folder button on the face of the unit to save the data from the operation or procedure in a single folder. Search data in any folder by patient ID, patient name, doctor, recording date, status. View thumbnails of the images in any folder to select the exact image you want printed or displayed.

- One-touch image record or capture
  Assign “Record” and “Capture” functions to the remote control buttons on the endoscope.

- Patient data is easy to input
  This hub can be linked to an Olympus video processor so patient data can be imported from the video processor and attached to the images being taken. This reduces input time and helps make management more efficient.

Image Management Hub

N3808460 Image management hub “IMH-10”



Delivery includes:

Hub, remote controller, blu-ray disc

Technical Data

Power supply
- Voltage ..... 100 – 240 V ~
- Frequency ..... 50/60 Hz
- Input current ..... 1.3 – 0.6 A

Size
- Dimensions ..... width 370 mm, height 108.5 mm, depth 413 mm
- Weight ..... 8.5 kg

Safety
- Protection against electric shock ..... class I

Input
- VIDEO ..... 2x BNC
- Y/C ..... 2x 4 pin mini DIN
- SDI ..... 2x BNC
- AUDIO ..... 1x stereo mini pin
- Control signals ..... 3x stereo mini pin

Output
- VIDEO ..... 1x BNC
- Y/C ..... 1x 4 pin mini DIN
- SDI ..... 1x BNC
- Maintenance monitor ..... D-SUB 15 pin
- AUDIO ..... 1x stereo mini pin
- Control signals ..... 1x stereo mini pin

Interfaces for peripherals
- RS-232 input ..... 2x D-SUB 9 pins
- System ..... 4x USB (USB 2.0)
- SERVER 1x RJ-45 (1000Base-T/100Base-TX)

Ambient conditions
- Operation temperature ..... 10 – 40 °C, relative humidity 30 – 80 %, atmospheric pressure 700 – 1040 hPa
- Transport and storage ..... temperature -20 – 60 °C, relative humidity 20 – 90 %, atmospheric pressure 700 – 1040 hPa

Recording

Recording media
- Built-in hard disk ..... 320 GB
- Blu-ray disc ..... BD-R (25 GB), BD-R DL (50 GB), BD-RE (25 GB), BD-RE DL (50 GB)
- DVD ..... DVD-R (4.7 GB), DVD-R DL (8.5 GB)
- USB ..... USB flash drive, USB hard disk

File formats
- Moving images ..... MPEG-4 AVC/H.264 (images) MPEG2 AAC (audio)
- Still images ..... BMP/TIFF/JPEG

Recording time (built-in hard disk)
- Best (HDTV) ..... approx. 28 hours
- High (HDTV) ..... approx. 40 hours
- Standard (HDTV) ..... approx. 83 hours
- Best (SDTV) ..... approx. 124 hours
- High (SDTV) ..... approx. 200 hours
- Standard (SDTV) ..... approx. 333 hours

Number of recorded still images (built-in hard disk)
- BMP (HDTV) ..... 35,200 frames
- BMP (SDTV) ..... 176,000 frames
- TIFF (HDTV) ..... 35,200 frames
- TIFF (SDTV) ..... 176,000 frames
- JPEG (Best HDTV) ..... 140,800 frames
- JPEG (High HDTV) ..... 281,600 frames
- JPEG (Standard HDTV) ..... 563,200 frames
- JPEG (Best SDTV) ..... 704,000 frames
- JPEG (High SDTV) ..... 1,408,000 frames
- JPEG (Standard SDTV) ..... 2,816,000 frames

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WM-NP2

Mobile Workstation



The second generation WM-NP2 series mobile workstation has been designed specifically for the Visera Elite video system, incorporating an innovative and practical design.

- Storage
  The WM-NP2 will accommodate a wide range of electro-medical devices to meet the requirements of either routine or advanced endoscopic surgery.

- Monitor position
  The LCD monitor arm allows the operator to optimize the viewing position with ease, due to the integral gas spring and tensioned joints providing excellent balance in use.

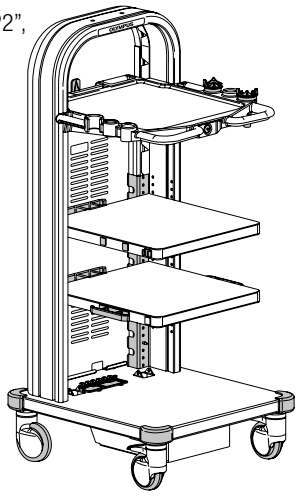
- Drawer pack
  The drawer pack facilitates safe storage of a variety of devices, providing a practical addition to the workstation. Multiple drawer packs can be fitted to a single workstation.

- Cable management
  Optimized cable management is achieved through a range of cable channels integral to the workstation hoop with the addition of dedicated cable winders at the rear of the workstation shelves.

- Electrical safety
  A separation transformer is fitted as standard providing the required level of electrical safety.

WM-NP2 Mobile Workstation

	Mobile workstation “WM-NP2”,
K10021765	standard set #1
K10021964	standard set #3
K10021613	standard set #5
K10021617	standard set #6
K23006796	standard set #7



Standard Sets

All standard sets include:

separation transformer MAJ-1648, power cable

Additional components in set #1:

LCD monitor arm MAJ-1641, keyboard tray MAJ-1640, scope pole MAJ-1638,

Additional components in set #3: none

Additional components in set #5:

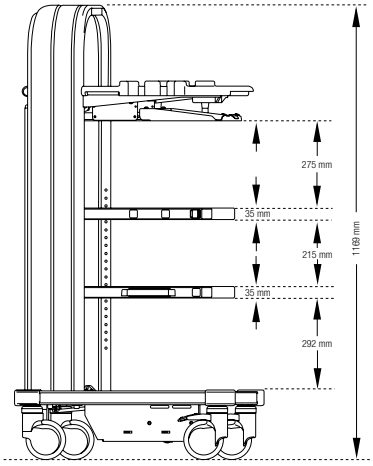
LCD monitor arm MAJ-1641, keyboard tray MAJ-1640

Additional components in set #6 (only for Europe and the UK):

LCD monitor arm MAJ-1641, keyboard tray MAJ-1640, drawer unit MAJ-1643

Additional components in set #7 (only for Europe and the UK):

LCD monitor arm MAJ-1641, keyboard tray MAJ-1640, extended monitor arm MAJ-1661 for small monitors



Technical Data

Dimensions

- Height (endoscope in lowest position) ..... 1370 mm
- Height (endoscope in highest position) ..... 2140 mm
- Height (to top tray) ..... 1169 mm
- Height (26" monitor in highest position) ..... 2073 mm
- Width ..... 650 mm
- Depth ..... 700 mm
- Weight (incl. transformer) ..... 85 kg (unladen)

Load capacity

- Top tray ..... 20 kg
- Intermediate shelves ..... 30.5 kg each
- Base panel ..... 30 kg
- Equipment stored on the mobile workstation should not exceed the size of the shelf.

Castors ..... 4 x 125 mm, 2 with brakes

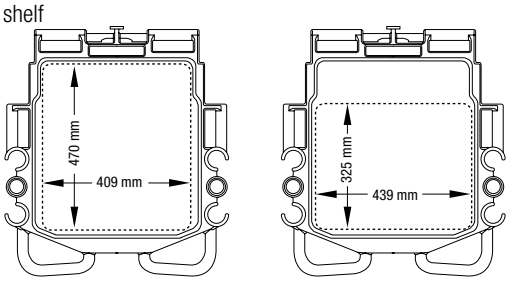
Ambient conditions

- Operation ..... temperature 10 – 40 °C
  relative humidity 95 % maximum
  atmospheric pressure 700 – 1060 hPa
- Storage ..... temperature -40 – 70 °C
  relative humidity 95 % maximum
  atmospheric pressure 700 – 1060 hPa

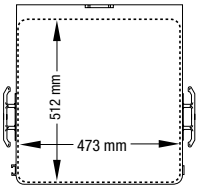
Separation transformer MAJ-1648

- Input voltage ..... 220 – 240 V
- Frequency ..... 50/60 Hz
- Power input (max.) ..... 1900 W
- Circuit breakers ..... 2x 9 A
- Potential equalisation terminals 1

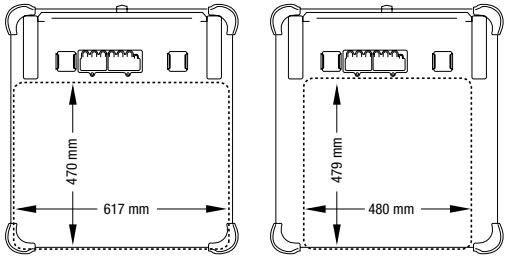
Top shelf



Middle shelf



Base shelf



WM-NP2
Mobile Workstation (cont.)

Optional Accessories

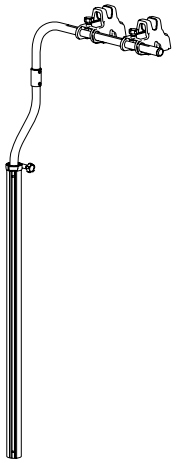
Nurses control panel arm (not shown)

K10021796 "MAJ-1662", short

K10021798 "MAJ-1664", long

K10021797 EUS arm mount kit "MAJ-1663" (not shown)

K10016823 Scope pole kit "MAJ-1638"

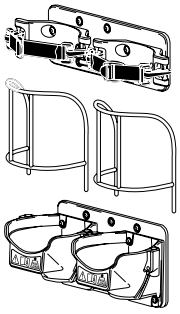


CO2 gas cylinder holder,

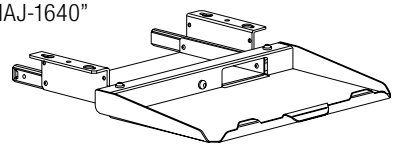
K10021041 "MAJ-1639", single, up to 140 mm diameter (not shown)

K10021042 "MAJ-1650", single, 140 – 205 mm diameter (not shown)

K10021043 "MAJ-1653", double



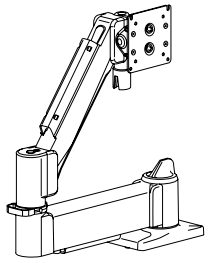
K10021464 Keyboard tray "MAJ-1640"



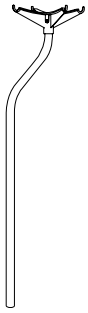
K10021791 Keyboard arm "MAJ-1657", side mounted (not shown)

Optional Accessories (cont.)

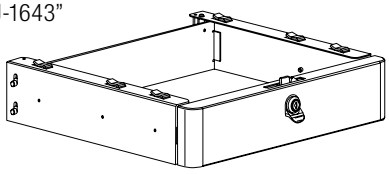
K10016875 LCD monitor arm "MAJ-1641"



K10016952 IV pole "MAJ-1642"



K10016960 Drawer unit "MAJ-1643"



K10021352 Equipotential terminal strip "MAJ-1654" (not shown)

K10021654 OEV261H Monitor PSU holder "MAJ-1655" (not shown)

K10021790 Footswitch holder "MAJ-1656" (not shown)

K10021792 Universal stowage container "MAJ-1658" (not shown)

K10021793 Equipment support rail "MAJ-1659" (not shown)

K10021794 Cable retaining hook "MAJ-1660" (not shown)

K10022056 Camera holder "MAJ-1665" (not shown)

OLYMPUS

Your Vision, Our Future

TC-G2

Energy Trolley

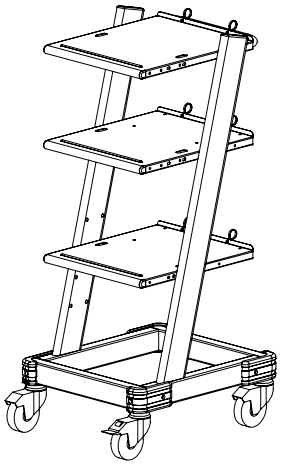


The TC-G2 is designed as a compact trolley for use in conjunction with the Olympus SonoSurg unit and associated equipment in the operating theatre environment.

- Adjustable shelf – the third shelf is fully adjustable to meet individual customers' equipment requirements.
- Cable management – simply and easily achieved using cable ties at the rear of the shelves
- Pushing handle – an integral pushing handle is located at the rear for easy and convenient manoeuverability.
- IV pole – supplied as standard, can be attached to either side of the trolley
- Plug block kit – a multiway plug block kit is available, reducing the number of trailing cables to the mains supply.

Energy Trolley TC-G2

K7504123 Trolley “TC-G2”,
for SonoSurg and UES



Technical Data

Dimensions

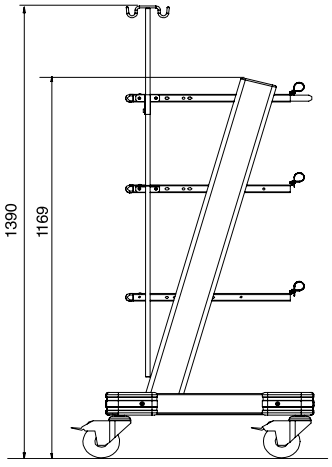
- Height ..... 1169 mm
- Height (with IV pole) ..... 1390 mm
- Width ..... 483 mm
- Depth ..... 656 mm
- Weight ..... 28 kg (unladen)

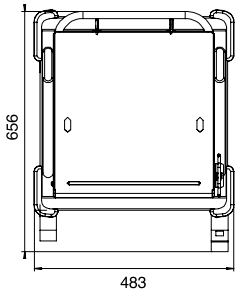
Load capacity

- Top shelf ..... 20 kg
- Second shelf ..... 25 kg
- Third shelf ..... 30 kg
- Base tray ..... 25 kg
- IV pole ..... 2 kg (2x 1 l bags)
- Total load ..... 102 kg

Castors ..... 4 x 100 mm, 2 with brakes

Delivery includes:
Trolley, IV pole, securing strap





Optional Accessories

K7504082	Gas cylinder holder “MAJ-92”
K7504084	Adjustable fiberscope hanger “MAJ-94”
7500731	Adjustable IV pole kit “MH-775”
K7504080	Storage bay “MAJ-88”
K7504075	Back panel kit “MAJ-90”
K7504157	Multi socket block kit “MAJ-123“
K7503556	Mounting “MAJ-110”, for KV-5 pump collection bottle
K7504079	Mounting “MAJ-89”, for KV-5 pump
K10001078	LCD mount adapter kit “MAJ-197”

More accessories available on request.

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TC-C2

Compact Trolley

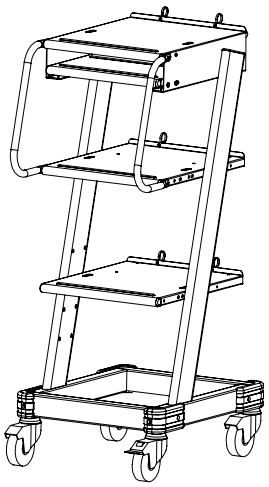


The TC-C2 is a compact trolley for use in conjunction with the Olympus VISERA system in the surgical and outpatient environment.

- Adjustable shelf – the third shelf is fully adjustable to meet individual customers' equipment requirements.
- Cable management – simply and easily achieved using cable ties at the rear of the shelves
- Pushing handle – an integral pushing handle is located at the rear for easy and convenient manoeuverability.
- Scope hanger – an adjustable height scope hanger is provided as standard
- Protective bars – designed to prevent accidental contact with camera control unit connectors
- Plug block kit – a multiway plug block kit is available, reducing the number of trailing cables to the mains supply.

Compact Trolley TC-C2

K7504124 Trolley “TC-C2”,
for VISERA system



Technical Data

Dimensions

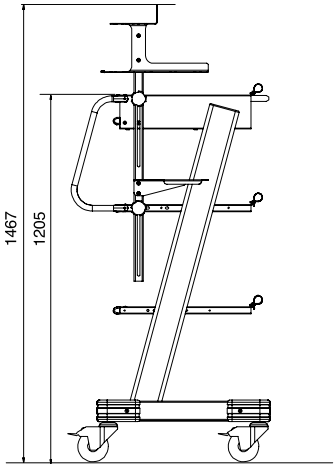
- Height ..... 1205 mm
- Height (with monitor tray) ..... 1467 mm
- Width ..... 563 mm
- Depth ..... 650 mm
- Weight ..... 33 kg (unladen)

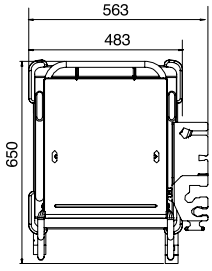
Load capacity

- Top shelf ..... 20 kg
- Keyboard tray ..... 2.2 kg
- Second shelf ..... 25 kg
- Third shelf ..... 26 kg
- Base tray ..... 25 kg
- Scope pole ..... 2.2 kg
- Total load ..... 100.4 kg

Castors ..... 4 x 100 mm, 2 with brakes

Delivery includes:
Trolley, guard rail, extending keyboard tray,
adjustable scope hanger





Optional Accessories

K7504082	Gas cylinder holder “MAJ-92”
K7504084	Adjustable fiberscope hanger “MAJ-94”
7500731	Adjustable IV pole kit “MH-775”
K7504080	Storage bay “MAJ-88”
K7504075	Back panel kit “MAJ-90”
K7504157	Multi socket block kit “MAJ-123“
K7503556	Mounting “MAJ-110”, for KV-5 pump collection bottle
K7504079	Mounting “MAJ-89”, for KV-5 pump
K10001078	LCD mount adapter kit “MAJ-197”

More accessories available on request.

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Accessories

LIGHT-GUIDE CABLES AND ADAPTERS

Light-Guide Cables 629

Light-Guide Adapters for Other Applications 631

Light-Guide Adapters for Fiberscopes 633

HF CABLES AND ADAPTERS

Monopolar HF Cables 635

HF Cables for Resectoscopes OES PRO, OES ELITE 637

HF Cables for Resectoscopes OES 4000, OES 639

Electrosurgical Unit Ancillaries Patient Plates and Cords 641

Bipolar HF Cables 643

IRRIGATION

Stopcocks and Tubings 645

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Light-Guide Cables



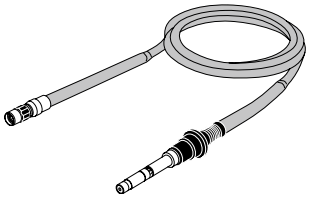
- Eco-friendly in terms of RoHS compliance
- CF applied part classification for use in cardiac surgery
- Optimal light transmission thanks to fused optical fibers
- Durability: Optimized tube and fused fiber bundles for extremely high durability against mechanical stress and autoclaving
- High temperature resistance
- Compatible with a wide variety of endoscopes if used with suitable adapters

autoclave
MAXIMUM DURABILITY

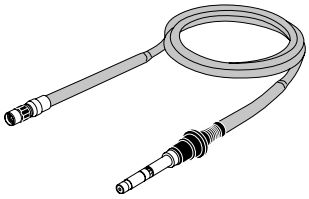
Light-Guide Cables

Delivery of all light-guide cables includes light-guide adapter WA03320A.
For light-guide adapters, see page 631.

WA03300A Light-guide cable, 2.8 mm, 3 m, CF type

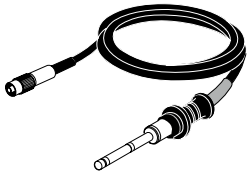


WA03310A Light-guide cable, 4.25 mm, 3 m, CF type



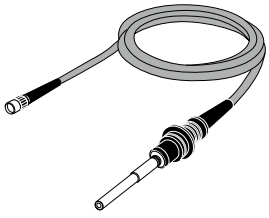
PDD Light-Guide Cable

A93200A Light-guide cable, plug type, for fluorescence diagnosis, 3.0 mm, fluid, not autoclavable



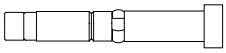
Colposcope Light-Guide Cable

N1008800 Light-guide cable “OCS5-LG”, for colposcope OCS-500

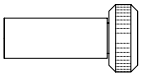


Adapting Olympus Light-Guide Cables to Light Sources

WA03320A Spare light-guide adapter, Olympus light-guide cable to Olympus light source



A3199 Light-guide adapter, Olympus light-guide cable to Winter & Ibe light source



with screw-type connection

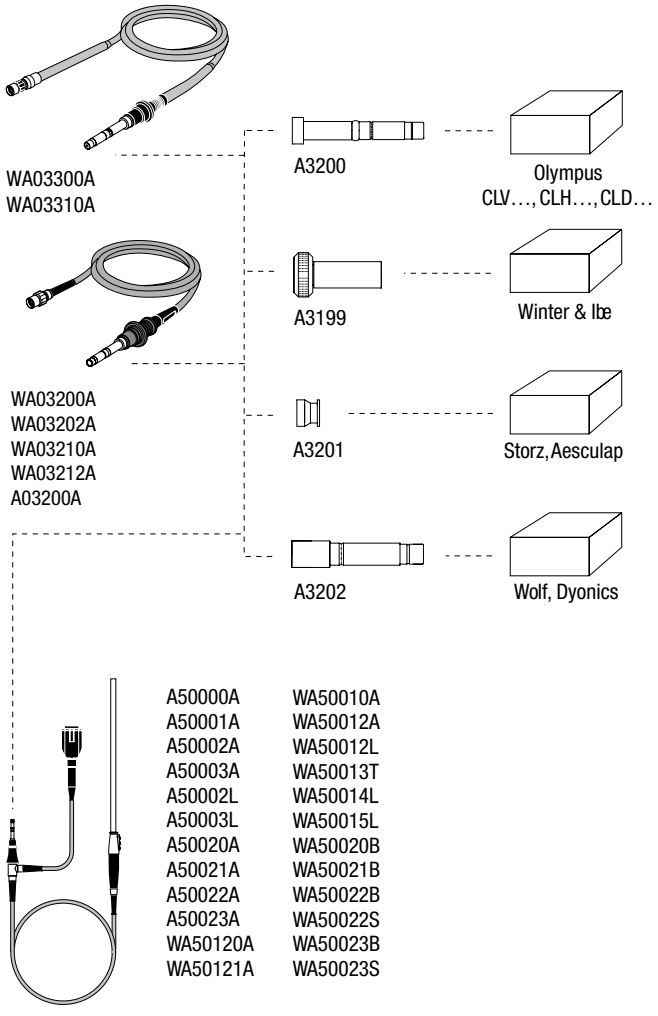
A3201 Light-guide adapter, Olympus light-guide cable to Storz light source



A3202 Light-guide adapter, Olympus light-guide cable to Wolf light source

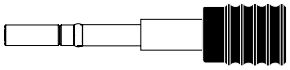
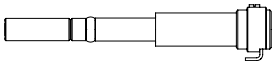
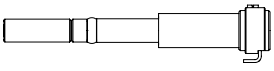


System Chart

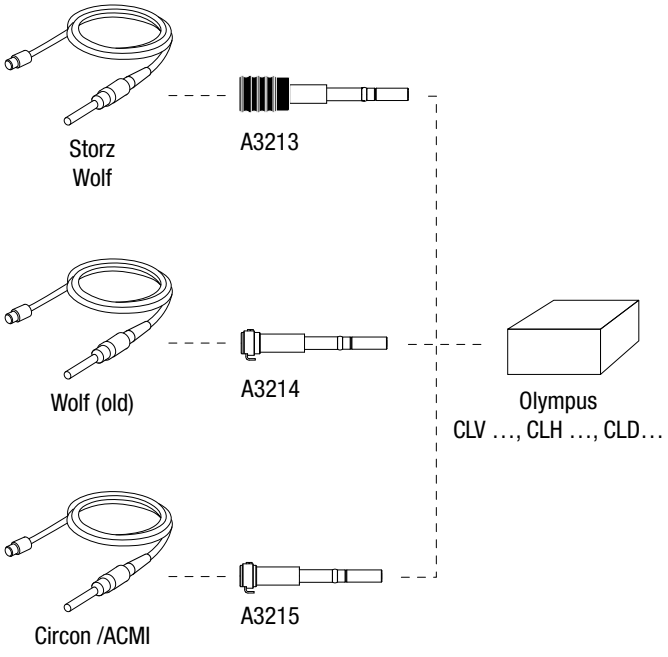


Light-Guide Adapters
for Other Applications

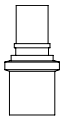
Adapting Other Light-Guide Cables to Olympus Light Sources

A3213	Light-guide adapter, Storz/Wolf light-guide cable to Olympus light source	
A3214	Light-guide adapter, Wolf light-guide cable (old) to Olympus light source	
A3215	Light-guide adapter, Circon/ACMI light-guide cable to Olympus light source	

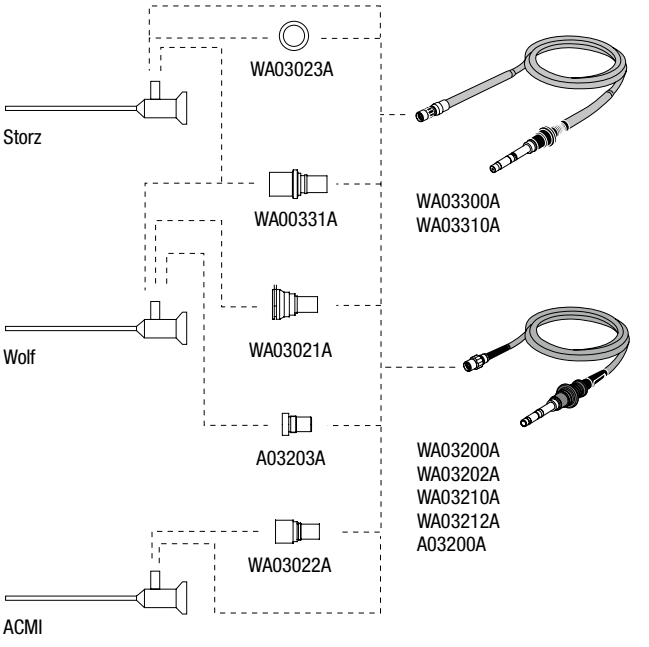
System Chart



Adapting Olympus Light-Guide Cables to Telescopes

WA00331A	Light-guide adapter, light-guide WA032xxA to Storz, Wolf telescope screw type (universal)	
WA03023A	Light-guide adapter, light-guide WA032xxA to Storz telescope screw type, rotatable	
WA03021A	Light-guide adapter, light-guide WA032xxA to Wolf telescope click type	
A03203A	Light-guide adapter, OES Pro light-guide to Wolf telescope screw type	
WA03022A	Light-guide adapter, light-guide WA032xxA to ACMI telescope click type	

System Chart



Adapting Olympus OES 4000 Light-Guide Cables to Telescopes

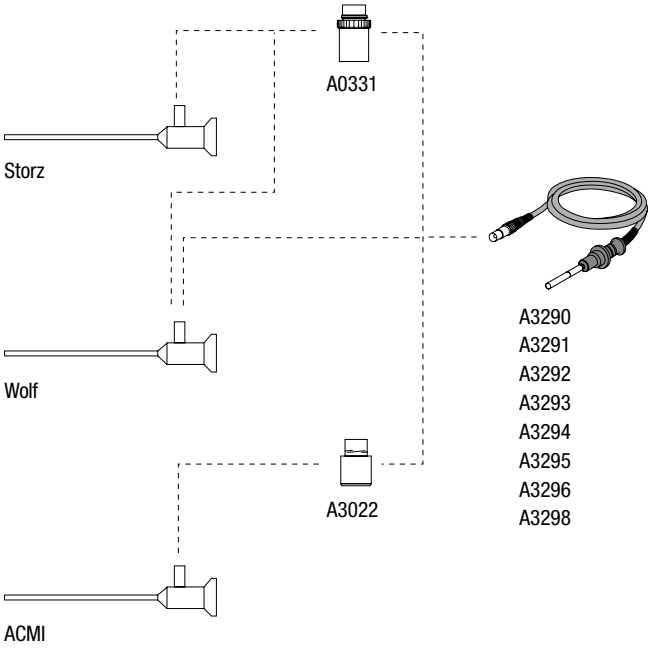
A0331 Light-guide adapter,
Storz telescope to
OES light-guide cable with condensor
screw type



A3022 Light-guide adapter,
ACMI telescope to
OES light-guide cable with condensor
click type

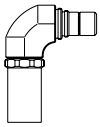


System Chart



Adapting Light-Guide Cables to Olympus Telescopes

A0464 Light-guide adapter,
90°,
OES telescope to OES light-guide cable



A0460 Light-guide adapter,
OES telescope to Olympus light-guide cable

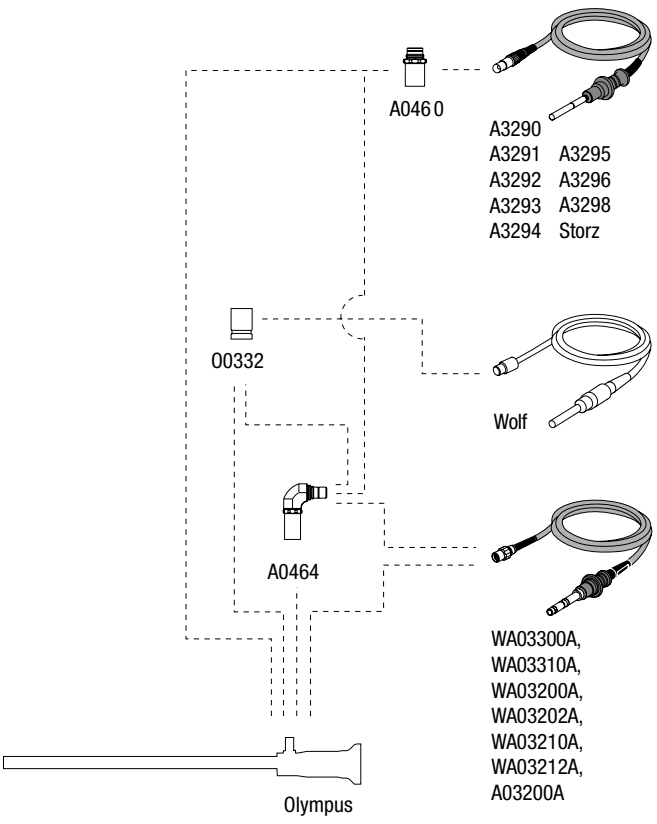


O0332 Light-guide adapter,
OES telescope to Wolf light-guide cable



Please note:
Light-guide adapters allow telescopes to be connected to light-guide cables of various manufacturers.
Olympus recommends the use of an Olympus light-guide cable and an Olympus light source. Only this combination will guarantee optimum illumination of the endoscopic image and excellent color reproduction.

System Chart

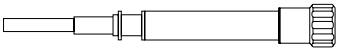


Light-Guide Adapters
for Fiberscopes

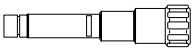
Adapting Olympus Surgical Fiberscopes to Light Sources

These adapters connect all Olympus surgical fiberscopes with integrated light-guide cable (CHF, CYF, ENF, HYF, LF, URF series) to light sources of other manucfaturers.

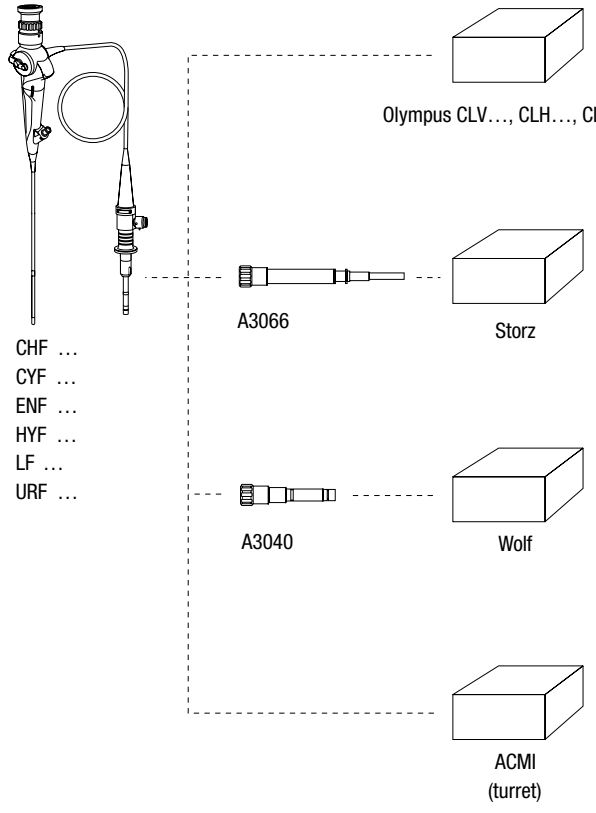
A3066 Light-guide adapter, OES light-guide cable to Storz light source



A3040 Light-guide adapter, OES light-guide cable to Wolf light source



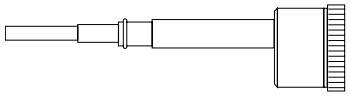
System Chart



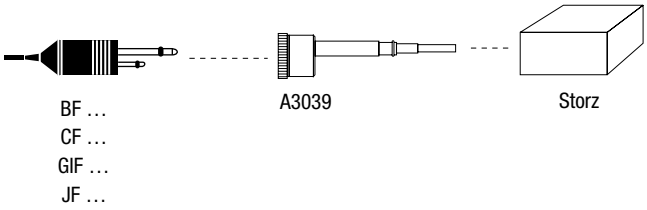
Adapting Olympus Medical Fiberscopes to Light Sources

These adapters connect all Olympus medical fiberscopes (BF, CF, GIF, JF series) to light sources of other manufacturers. Only light transmission is supported.

A3039 Light-guide adapter, fiberscope to Storz light source

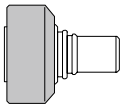


System Chart

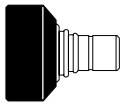


Adapting Olympus OES Pro Light-Guide Cables to Fiberscopes

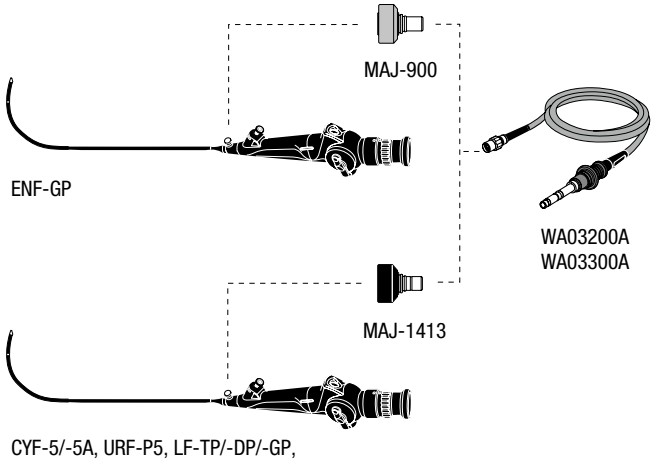
A70982A Light-guide adapter “MAJ-900”, Olympus OES Pro light-guide cable to ENF-GP



N1773930 Light-guide adapter “MAJ-1413”, Olympus OES Pro light-guide cable to CYF-5/-5A, URF-P5, LF-TP/-DP/-GP



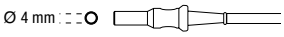
System Chart



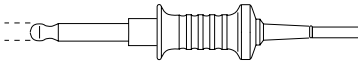
Monopolar HF Cables

Monopolar HF Cables for HICURA and HiQ+ Hand Instruments

Compatible instruments:
Surgical instruments for
monopolar coagulation with
4 mm connector-pin
(all Olympus HICURA and HiQ+ hand instruments)

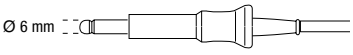


A0358 HF cable, monopolar, 3.5 m, UES-30, Erbe Intl. and Valleylab (new) HF unit to HiQ, HiQ+



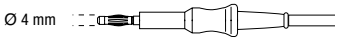
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

A0355 HF cable, monopolar, 3.5 m, UES-10/20 and Valleylab (old) HF unit to HiQ, HiQ+



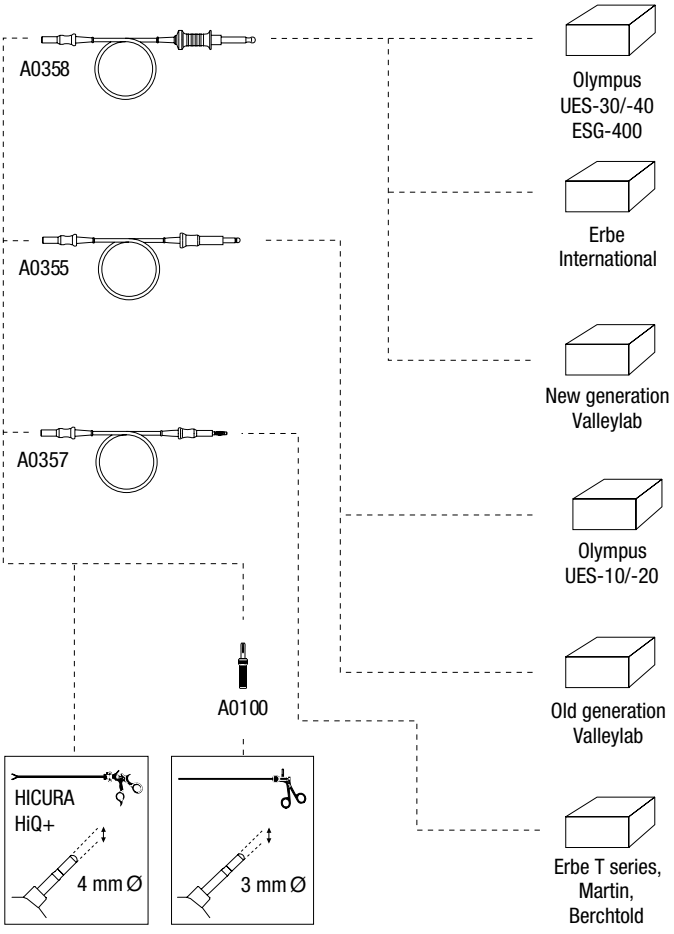
Compatible HF units:
Olympus UES-10/-20,
old generation Valleylab

A0357 HF cable, monopolar, 3.5 m, Martin and Berchtold HF unit to HiQ, HiQ+



Compatible HF units:
Erbe T series,
Martin,
Berchtold

System Chart



Instrument Adapter

A0100 Adapter, for HF connector, 4 mm male, 3 mm female



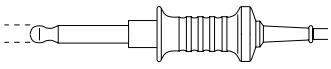
Connects HF cables A0355, A0357, A0358, A00503A, A00505A, A00506A to instruments with 3 mm connector-pin.

Monopolar HF Cables for Instruments with 3 mm Pin

Compatible instruments:
Surgical instruments for
monopolar coagulation with
3 mm connector-pin
(all Olympus instruments
except HICURA and HiQ+ hand instruments)

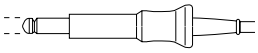


A0335.1 HF cable,
monopolar, 3.5 m,
UES-30, Erbe Intl.
and Valleylab (new) HF unit
to 3 mm pin surgical instruments



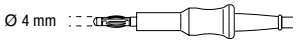
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

A0130.2 HF cable,
monopolar, 3.5 m,
UES-10/20 and Valleylab (old) HF unit
to 3 mm pin surgical instruments



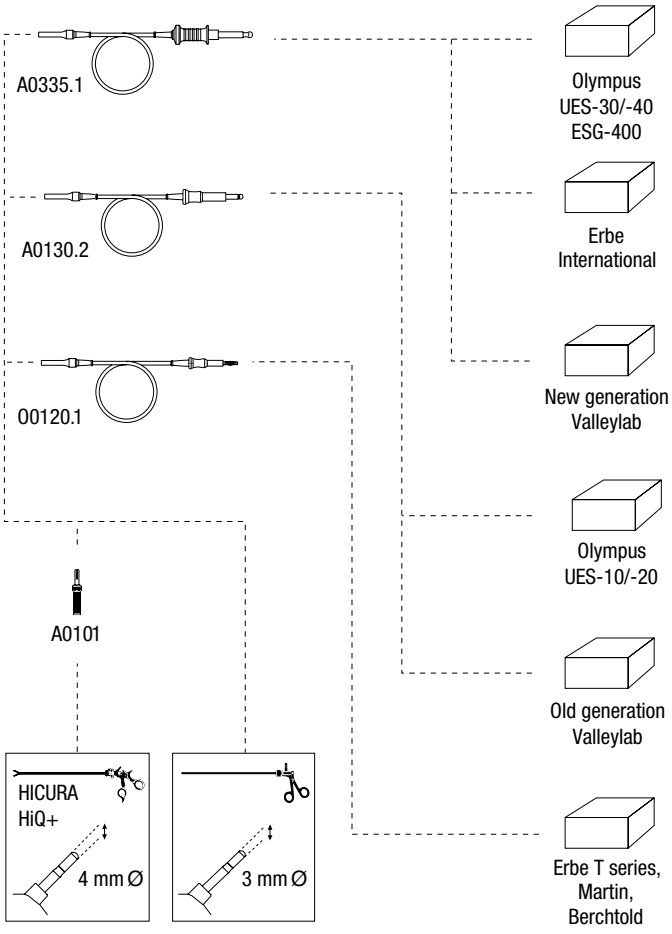
Compatible HF units:
Olympus UES-10/-20,
old generation Valleylab

00120.1 HF cable,
monopolar, 3.5 m,
Martin and Berchtold HF unit
to 3 mm pin surgical instruments



Compatible HF units:
Erbe T series,
Martin,
Berchtold

System Chart



Adapter

A0101 Adapter,
HF connector,
3 mm male, 4 mm female



Connects HF cables 00120.1, A0130.1, and A0335.1 to
Olympus HiQ+ hand instruments.

OLYMPUS

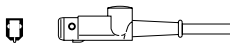
Your Vision, Our Future

HF Cables for Resectoscopes

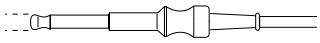
OES PRO, OES ELITE

For Working Elements A22060A/-61A/-63A, A37014A

Compatible instruments:
Working elements
A22060A, A22061A,
A22063A, A37014A

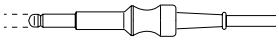


A00012A HF cable, Ø 8 mm
4 m, monopolar,
UES-30, Erbe Intl. and
Valleylab (new) HF unit to OES Pro resectoscope



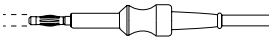
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

A00010A HF cable, Ø 6 mm
monopolar, 4 m,
UES-10/20 and
Valleylab (old) HF unit to OES Pro resectoscope



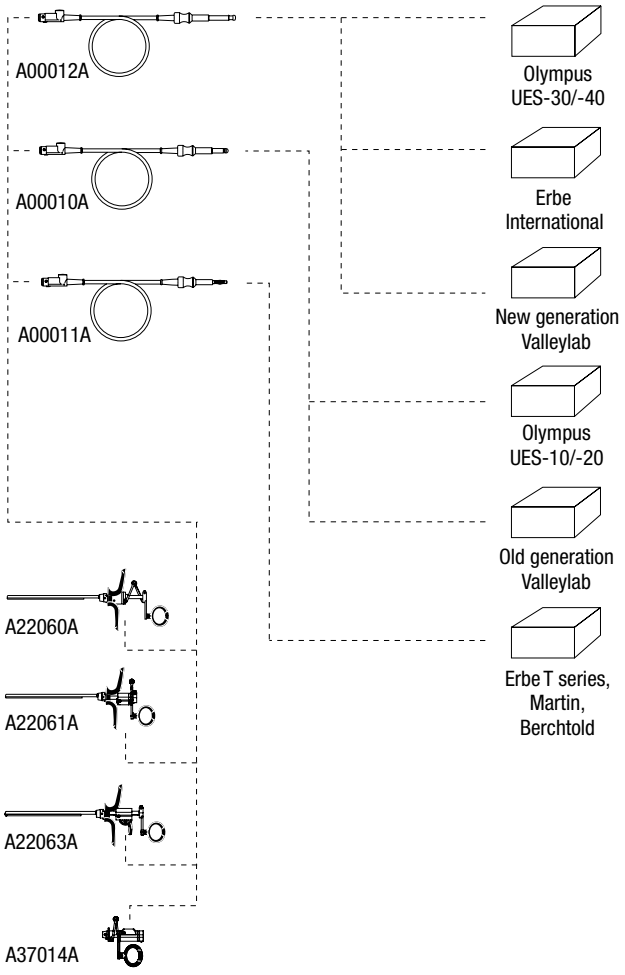
Compatible HF units:
Olympus UES-10/-20,old generation Valleylab

A00011A HF cable, Ø 4 mm
monopolar, 4 m,
Martin and Berchtold HF unit to OES Pro resectoscope



Compatible HF units:
Erbe T series,
Martin,
Berchtold

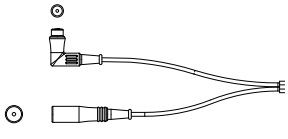
System Chart



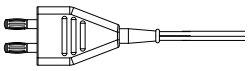
For Working Elements A22060B/-61B, WA22366A/-67A

Bipolar cables for TURis and TCRis procedures.

Compatible instruments:
Working elements
A22060B, A22061B,
WA22366A, WA22367A



WA00013A HF cable,
4 m,
UES-40 HF unit
to TURis resectoscope



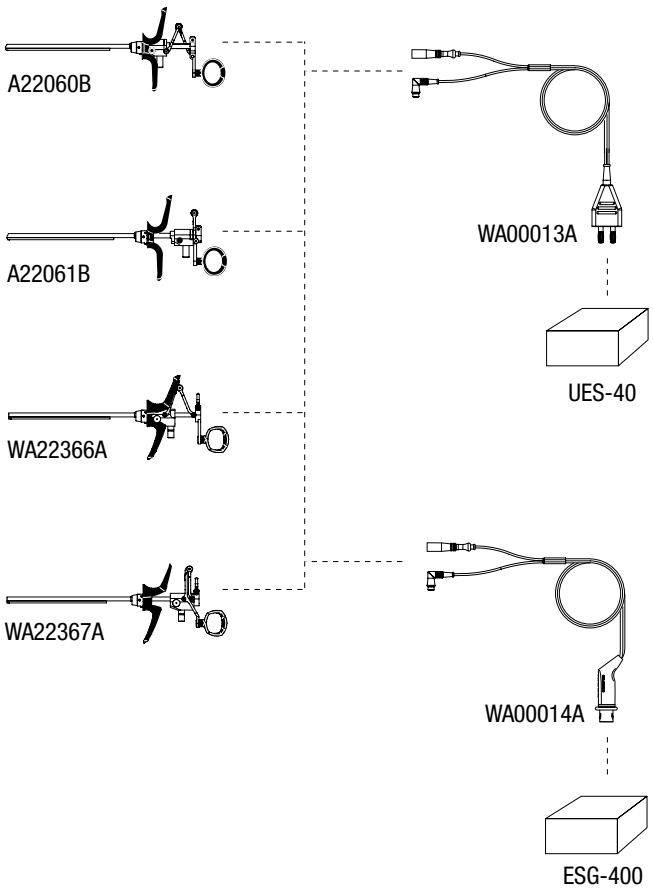
Compatible HF unit:
Olympus UES-40

WA00014A HF cable,
bipolar,
4 m,
for ESG-400 SALINE mode



Compatible HF unit:
Olympus ESG-400

System Chart



OLYMPUS

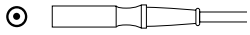
Your Vision, Our Future

HF Cables for Resectoscopes

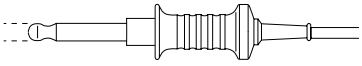
OES 4000, OES

For Working Elements WA22066A/-67A, A2760/-61, A4744/-45

Compatible instruments:
Working elements
WA22066A, WA22067A,
A2760A, A2761A,
A4744, A4745

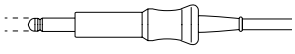


A0393 HF cable, Ø 8 mm
monopolar, 4 m,
UES-30, Erbe Intl. and
Valleylab (new) HF unit to resectoscope



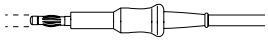
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

A0391 HF cable, Ø 6 mm
monopolar, 4 m,
UES-10/20 and Valleylab (old) HF unit to resectoscope



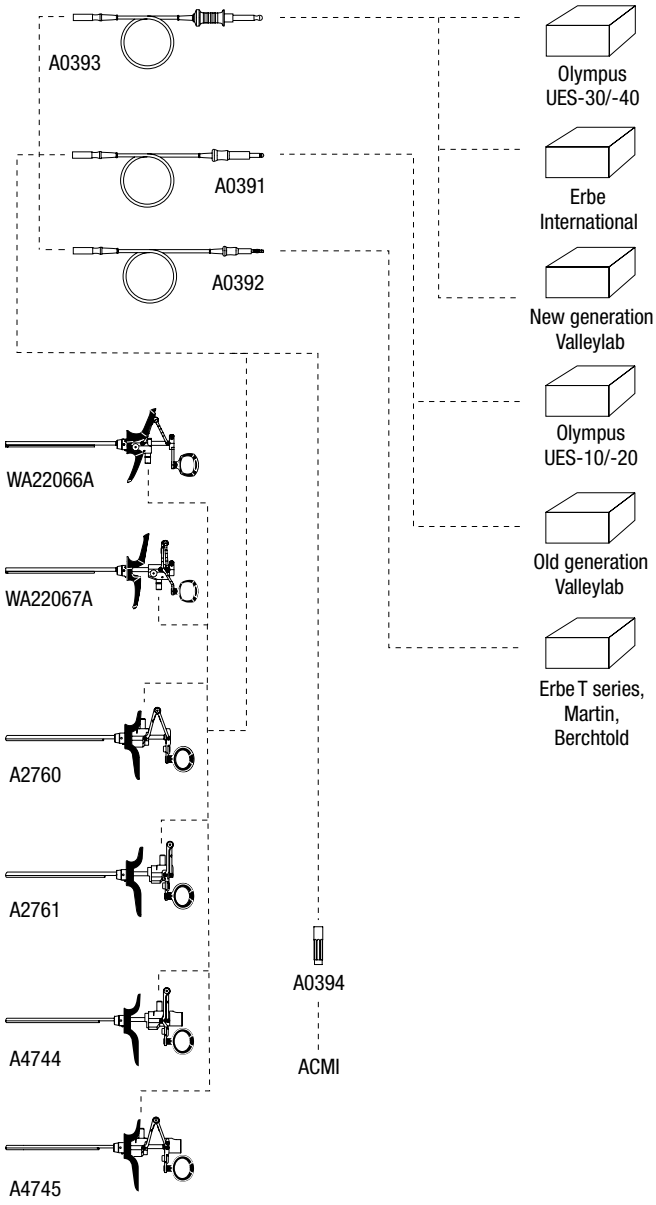
Compatible HF units:
Olympus UES-10/-20,old generation Valleylab

A0392 HF cable, Ø 4 mm
monopolar, 4 m,
Martin and Berchtold HF unit
to resectoscope



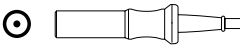
Compatible HF units:
Erbe T series,
Martin,
Berchtold

System Chart

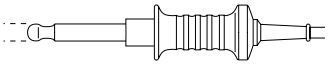


For Working Elements A2749/-50/-51/-55, A3752, A4512

Compatible instruments:
Working elements
A2749, A2750, A2751,
A2755, A3752, A4512

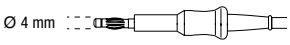


A0336.1 HF cable, monopolar, 3.5 m, UES-30, Erbe Intl. and Valleylab (new) HF unit to resectoscope



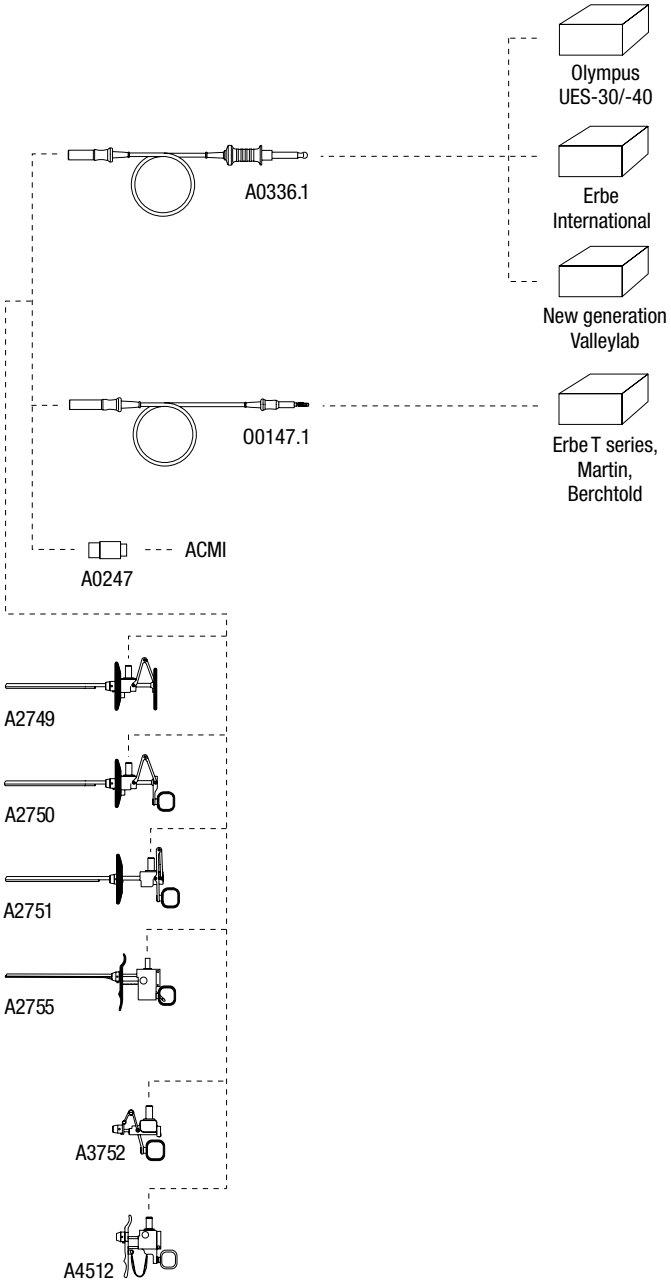
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

00147.1 HF cable, monopolar, 3,5 m, Martin and Berchtold HF unit to resectoscope



Compatible HF units:
Erbe T series,
Martin,
Berchtold

System Chart

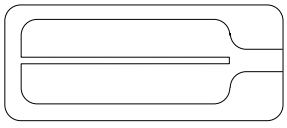


Electrosurgical Unit Ancillaries

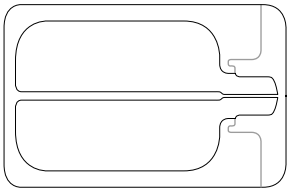
Patient Plates and Cords

Single Use Neutral Electrode

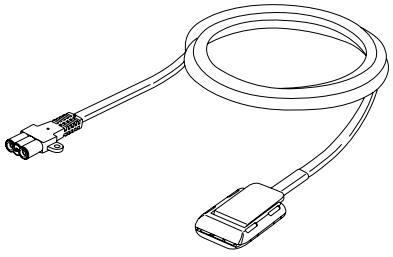
E0427245 Disposable split patient plate “MAJ-897”, 10 pcs.



E0427170 3M split patient plate “8180F”, 5 pcs.

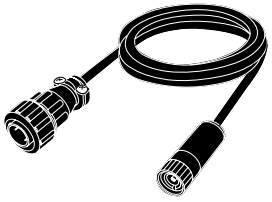


E0427213 P-cord for disposable plates “MAJ-814”



S-Cord for Fiberscopes

027162 S-cord “MH-470”, for use with GI scope

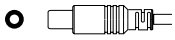


Compatible instruments:
Fiberscopes with S-cord connector

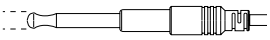
Compatible HF units:
Olympus UES-20/-30/-40

HF Cables for ET Instruments

Compatible instruments:
SD handle MH-264,
HF electrode CD-6C-1

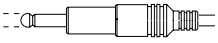


A02915A HF cable “MAJ-860”, Ø 8 mm
3.5 m,
for UES-30, -40, Erbe ICC International
and new generation Valleylab HF units



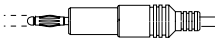
Compatible HF units:
Olympus UES-30/-40,
Erbe International,
new generation Valleylab,
Bovie, Bowa

027215 HF cable “MH-969”, Ø 6 mm
3 m,
for UES-10, -20 and old generation
Valleylab HF units



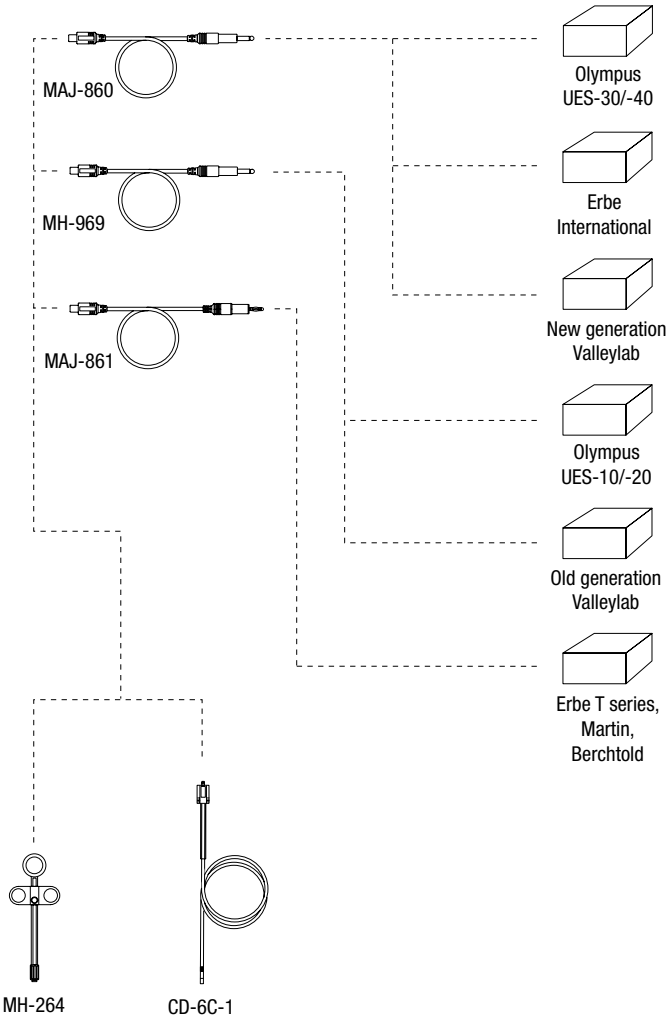
Compatible HF units:
Olympus UES-10/-20,old generation Valleylab

A02916A HF cable “MAJ-861”, Ø 4 mm
3.5 m,
for Martin and Berchtold HF units



Compatible HF units:
Erbe T series,
Martin,
Berchtold

System Chart



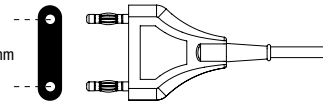
Bipolar HF Cables

For HICURA and HiQ+ Bipolar Hand Instruments

Compatible instruments:
HICURA bipolar hand instruments
HiQ+ Bipolar hand instruments

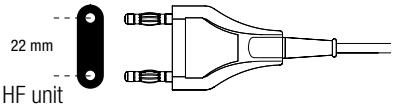


A60003C HF cable, bipolar, 3.5 m, for Valleylab HF units



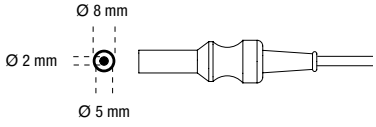
Compatible HF units:
Olympus UES-20/-30/-40,
Erbe VIO[1],
Valleylab

A60001C HF cable, bipolar, 3.5 m, for Olympus UES HF unit



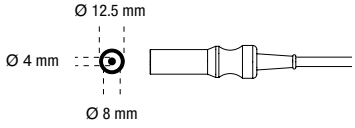
Compatible HF units:
Erbe International

A60002C HF cable, bipolar, 3.5 m, for Martin, Berchtold HF unit



Compatible HF units:
Martin,
Berchtold

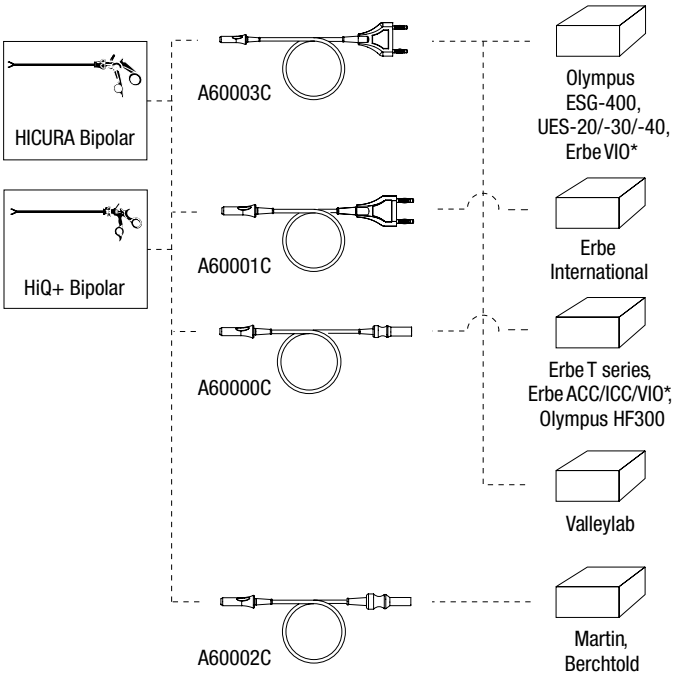
A60000C HF cable, bipolar, 3.5 m, for Erbe HF unit



Compatible HF units:
Olympus HF300,
Erbe T series,
Erbe ACC/ICC/VIO[1]

[1] Depending on individual connector configuration

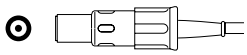
System Chart



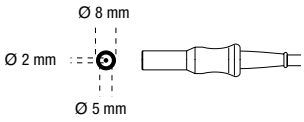
* Depending on individual connector configuration

For BiQ and BiQ+ Hand Instruments

Compatible instruments:
BiQ and BiQ+
bipolar instruments

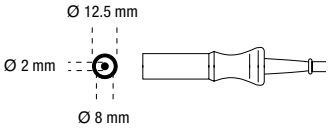


A5378 HF cable,
bipolar, 3.5 m,
Martin and Berchtold
HF unit to BiQ, BiQ+



Compatible HF units:
Martin, Berchtold

A5379 HF cable,
bipolar, 3.5 m,
HF-300 and
Erbe Standard HF unit
to BiQ, BiQ+



Compatible HF units:
Olympus HF300,
Erbe T series,
Erbe ACC/ICC/VIO[1]

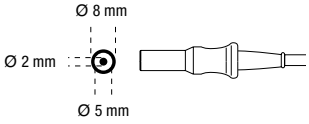
[1] Depending on individual connector configuration

Bipolar HF Cables for BiQ^{SL} Hand Instruments

Compatible instruments:
BiQSL bipolar instruments

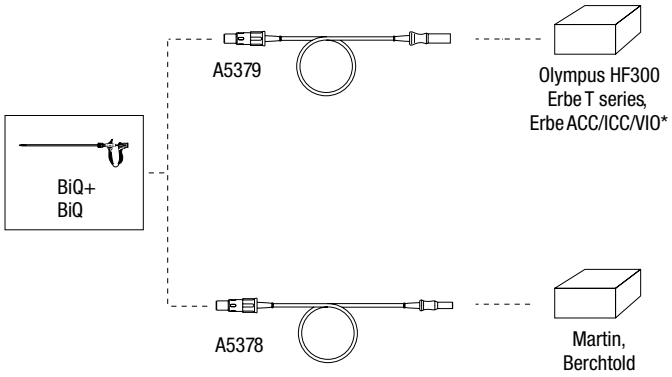


05120.1 HF cable,
bipolar, 3 m,
Martin and Berchtold
HF unit to BiQ-SL and
bipolar tweezers

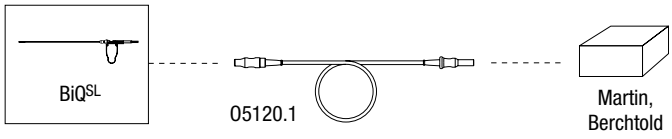


Compatible HF units:
Martin,
Berchtold

System Charts



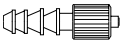
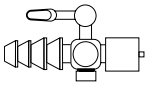
* Depending on individual connector configuration



Stopcocks and Tubings

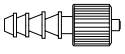
Tubing Adapters, Luer-Lock

For instruments with Luer-lock connector

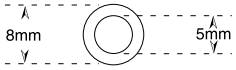
O0103	Adapter, with Luer-lock male and x-mas tree	
O0102.1	Stopcock, Luer-lock male/X-mas tree, maintenance-free	

Tubing Adapters, Wide Lumen

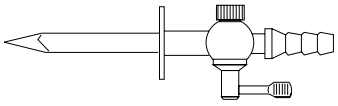
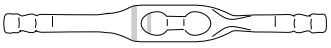
For tubing sets and sterile water units

O0322	Adapter, with Luer-lock female and x-mas tree, wide lumen	
O0323	Adapter, wide lumen, Luer-lock male, x-mas tree	
A0104	Adapter, with male Luer-lock and wide lumen female Luer-lock	

Tubings

O0314	Tubing, 5 x 8 mm, 1 m, silicone	

Other Accessories

O0321	Cannula, for water bag, with stopcock	
O0174	Reflux valve, glass	

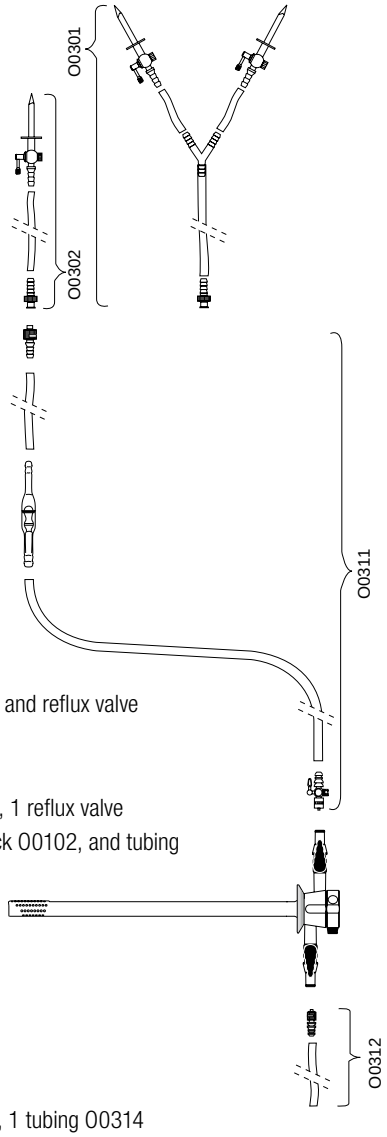
Tubing Sets

O0301 Tubing,
set for two water bags

Consisting of: 2 cannulas O0321, adapter O0322,
and tubing

O0302 Tubing,
set for 1 water bag

Consisting of: 1 cannula O0321, adapter O0322,
and tubing



O0311 Tubing,
set with stopcock and reflux valve

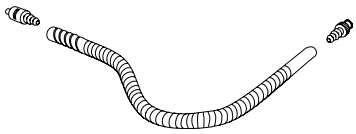
Consisting of:
1 adapter O0323, 1 reflux valve
O0174, 1 stopcock O0102, and tubing

O0312 Tubing,
set,
0.6 m

Consisting of:
1 adapter O0103, 1 tubing O0314

Kink Protected Tubing

A0435 Tubing, set,
kink protection



Consisting of:
adapter O0103,
adapter A0436,
tube with kink protection

OLYMPUS

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Reprocessing

AUTOMATIC ENDOSCOPE REPROCESSING

ETD Double
Advancing the Efficiency of Reprocessing 649

ETD4
Reliability in Endoscope Reprocessing 653

ETD4
Automatic Endoscope Reprocessor 655

miniETD2
Automatic Endoscope Reprocessor 661

ETD Accessories
for ETD4, ETD3, miniETD2 663

ETD Adapters 665

INSTRUMENT TRAYS AND BASKETS

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Plastic Instrument Tray System 671

Instrument Baskets 675

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Manual Cleaning 679

Basic Accessories 681

Reprocessing Instruction Cards 683

OLYMPUS

Your Vision, Our Future

ETD Double

Advancing the Efficiency of Reprocessing



With the ETD Double, Olympus has advanced its long tradition of ETD machines, enabling the strict, physical separation of clean from dirty.



Advancing Work Flow Efficiency

- Simultaneous reprocessing of up to three endoscopes
- Loading of baskets and connection of endoscope channels is done entirely outside the ETD Double.
- Easy placement and connection of endoscopes



Advancing Safety

- Color- and mechanically coded adaptation principle
- Comprehensive leakage test functionality
- Ergonomic machine loading
- Real-value documentation
- Independent monitoring of process-critical parameters
- Compliance with EN ISO 15883



Advancing Hygiene

- Detection of blockages at the individual channel level
- Effective self-disinfection
- Advanced cleaning results



Customized Service And Support

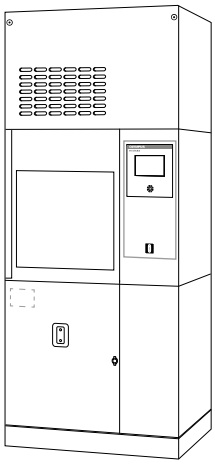
- Modular Olympus services
- Expert maintenance
- Essential validation
- Convenient remote service
- Expert help-desk support
- Focused training

ETD Double
(cont.)

ETD Double Washer-Disinfector

WD00104A Washer-disinfector “ETD Double”, PAA

Delivery includes:
Washer-disinfector,
3 baskets WD00117A



Technical Data (1)

Dimensions
- Depth ..... 830 mm
- Height ..... 2130 mm (including cover)
- Weight ..... max. 570 kg

Power supply
- Voltage ..... 400 V AC 50 Hz
- Voltage fluctuation ..... ±10 %
- Power consumption ..... 10,5 kW

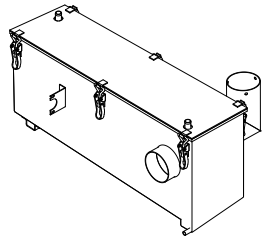
Ambient operating conditions
- Ambient temperature ..... 5 to 40 °C
- Installation location ..... Only for indoor use
- Relative humidity ..... 10 to 80% at max. 31 °C
  10 to 50% at max. 40 °C
  (linearly decreasing)
- Maximum altitude ..... 1500 m above normal sea level
  2000 m above normal sea level
  in addition with special washing program
- Overvoltage category 2
- Pollution degree 2
- Compressed air ..... Oil content: =0.1 mg/m³
- Atmospheric dew-point: ..... -22 °C
  (humidity ratio: =870 ppm)
  exception for drying
  according to EN ISO 15883-4: -46 °C
  (humidity ratio: =67 ppm)

Technical Data (2)

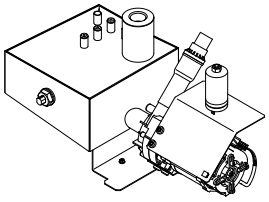
Ambient operating conditions (cont.)
- Noise level ..... 61 dB (A)
- Degree of ingress protection IP20
- Regulatory status ..... This device complies with the requirements of Directive 93/42/EEC concerning medical devices.
- Classification ..... Class II

Optional Components

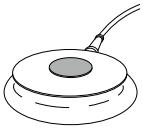
WD00158A Steam condenser, for ETD Double



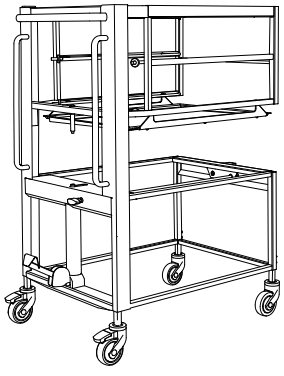
WD00159A Pump, for drainage, for ETD Double



WD00161A Door switch, for ETD Double

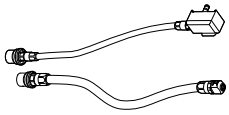


WD00114A Transfer trolley “ETD Double Trolley”, for ETD Double



Expansion Kits

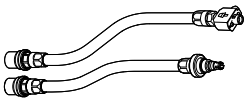
WD00163A Expansion kit “EUS”,
for adapter Olympus 2 & 3,
for ETD Double



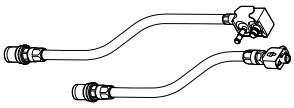
WD00164A Expansion kit “2T”,
for adapter Olympus 2 and 3,
for ETD Double



WD00165A Expansion kit “BF”,
for adapter Olympus 1,
for ETD Double

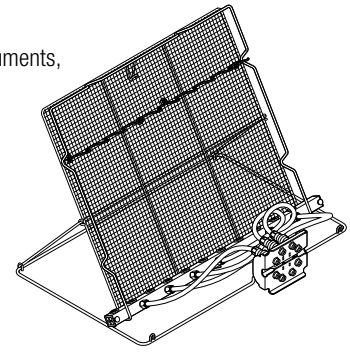


WD00166A Expansion kit “BF & EUS”,
for adapter Pentax 1,
for ETD Double

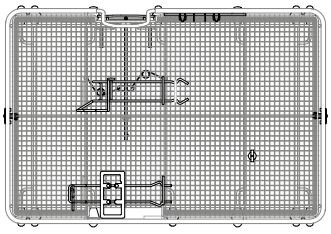


Baskets

WD00115A Basket insert,
for thermostable instruments,
for ETD Double



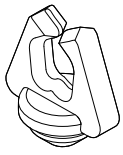
WD00117A Basket,
for flexible endoscopes,
for ETD Double



Delivery includes:
Basket, clamping pieces WD00152A

Basket Accessories

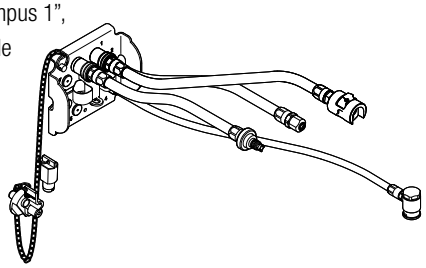
WD00152A Clamping pieces,
for distal end of endoscopes,
for ETD Double



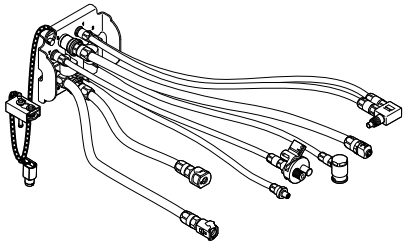
Delivery includes:
5 small clamping pieces, 5 large clamping pieces

Adapter for ETD Double

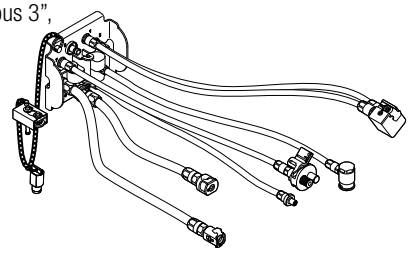
WD00120A Adapter “Olympus 1”,
for ETD Double



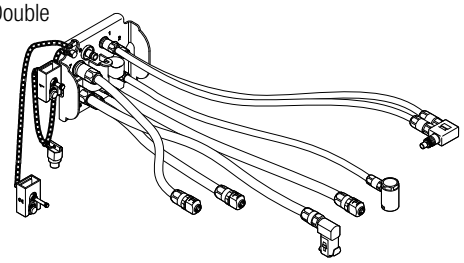
WD00121A Adapter “Olympus 2”,
for ETD Double



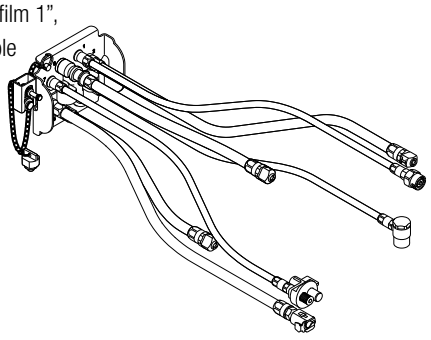
WD00122A Adapter “Olympus 3”,
for ETD Double



WD00123A Adapter “Pentax 1”,
for ETD Double



WD00124A Adapter “Fujifilm 1”,
for ETD Double



WD00129A Adapter “Multi-Use 1”,
for ETD Double (not shown)

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ETD4

Reliability in Endoscope Reprocessing

ETD System



Features at a Glance

- Proven process and efficacy
  Endoscope reprocessing within the ETD4 is based on fully proven and well-established process conditions. Using the Olympus peracetic acid (PAA) or glutaraldehyde (GA) process, a powerful disinfection efficacy against microorganisms is achieved.

- Reliability and safety
  The ETD4 is equipped with a second-generation flow control device for endoscope channels. It monitors proper use of all the required endoscope channel connectors. ETD4 is also equipped with numerous process monitoring devices; all the relevant process parameters are watched. ETD4 will stop immediately in case of errors or any critical process condition.

- Documentation and traceability
  The ETD4 offers automatic scanning of RFID-based tags. Endoscope details and process data will be added and jointly printed in a written report or forwarded to the Olympus EndoAlpha Documentation System.

- System compatibility
  ETD4 is part of the Olympus system approach, and is compatible with ENDOALPHA DOCUMENTATION. Together with the endoscope drying cabinet (EDC) and the endoscope transport system (ETS) it enables a full set-up of products to be used in the reprocessing environment.



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ETD4

Automatic Endoscope Reprocessor

Features

Fully automatic endoscope cleaning and disinfection machine

- Long time established system with full compatibility of reprocessing machine, process chemicals and Olympus endoscopes
- Choice between glutaraldehyde (GA) and peracetic acid process (PAA)
- Reprocessing of Fujifilm and Pentax endoscopes
- Full integration with Endo Alpha Documentation
- Special pump for elevator channel
- Thermal process for rigid endoscopes

Additional features with ETD4 Plus models:

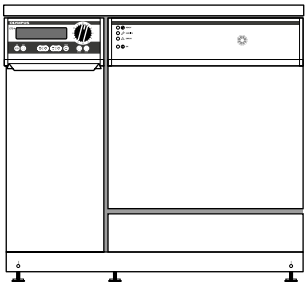
- Channel Flow Control
- EndoID, automatic endoscope identification by transponders
- Process documentation

Optional for ETD4 Basic PAA:

- Reprocessing of four ENT endoscopes

ETD4 Main Machines

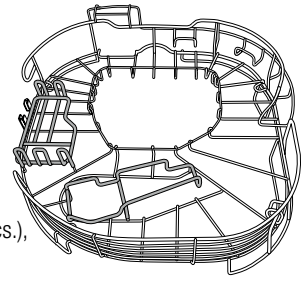
	Washer-disinfector
WD00220A*	"ETD4 Plus GA"
WD00221A*	"ETD4 Basic GA"
WD00222A*	"ETD4 Plus PAA"
WD00223A*	"ETD4 Basic PAA"
WD00225A*	"ETD4 Basic 60 Hz PAA"



Delivery includes (all models):
Basket E600, basket E601, coarse sieve, fine filter, surface sieve/micro-fine sieve, coarse filter 1, adhesive label, small items basket E363, adapter 3STD-GI (2 pcs.), sealing ring set for 3STD-GI, 7 mm/10 mm socket wrench (2 pcs.)

ETD4 Basic PAA Four Scope

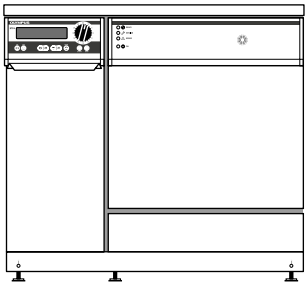
WD00119A Expansion kit, for ETD4 Basic PAA, for 4 endoscopes



Delivery includes:
basket E-607 (4 pcs.), leakage test Y-adapter (2 pcs.), reduction cap set (2 pcs.), bracket set E0424439, sticker

Compatible endoscopes:
ENF-10, ENF-GP, ENF-L3, ENF-P, ENF-P2, ENF-P3, ENF-P4, ENF-XP, ENF-V, ENF-V2, ENF-VQ, ENF-V3, ENF-VH

WD00224A* Washer-disinfector "ETD4 Basic Pure PAA"



Delivery includes:
Basket E600, coarse sieve, fine filter, surface sieve/micro-fine sieve, coarse filter 1, adhesive label, small items basket E363

Technical Data (1)

Specifications
- Type/versions ..... ETD4 Plus, ETD4 Basic, ETD4 Basic Pure
- Capacity ..... 2 flexible medical endoscopes or optionally 4 ENT endoscopes
- Process ..... glutaraldehyde (GA) or peracetic acid (PAA)
- Outer Casting ..... Stainless steel
- Interfaces ..... ethernet (TCP/IP) printer port (parallel)
- User interface ..... 4 x 40 digits LCD

Size
- Dimensions ..... 900 (W) x 850 (H) x 600 (D) mm
- Weight ..... 133.5 kg
- Volume (washing chamber) ..... 165 l
- Floor loading (max.) ..... 2158 N

Water supply
- Process water ..... max. 4 °dH, min. conductivity: 100 µS/cm (ETD4 Plus), pH: 6.5 – 9.5, max. temperature: 30 °C (GA), 25 °C (PAA)
- Steam condenser ..... cold tap water (potable)
- Pressure ..... 100 – 1,000 kPa
- Quality ..... acc. to EN ISO 15883-4
- Plumbing ..... pipe size: 1/2”, hose size: 3/8”, 1.5 m, hose coupling: 3/4”
- Hose ..... Poly-Rex, 22 mm Ø, max. 4 m

Power supply 400 V (not for WD00225A)
- Voltage ..... 400 V (±10 %), 3N~, 50 Hz
- Fuses ..... 3x 16 A
- Power consumption ..... 9.2 kW
- Connecting cable ..... 5 x 2.5 mm², 1.8 m length

Power supply 230 V
- Voltage ..... 230 V ~ (±10 %)
- Frequency ..... 50 Hz (WD00220A-24A), 60 Hz (WD00225A)
- Fuse ..... 1x 30 A
- Power consumption ..... 6.7 kW (WD00220A-24A), 6.2 kW (WD00225A)
- Connecting cable ..... 3 x 4 mm², 1.8 m length

Operation
- Circulating pump capacity (Q_{max}) ..... 400 l/min

Noise level
- WD00220A-24A ..... 67.1 dB (A), stand alone, 54.9 dB (A), integrated
- WD00225A ..... 67.1 dB (A) stand alone, 63 dB (A), itegrated

Technical Data (2)

EndoID database
- Max. number of users 200
- Max. number of endoscopes 500
- Max. number of endoscope types 400

Remote access
- Connection ..... ISDN telephone line (RJ45)

Safety
- Electrical safety ..... EN 61010-1, EN 61010-2-40
- Electromagnetic compatibility ..... EN 61326, EN 50366
- Directive 93/42/EEC ..... IIb
- Safety of water supply ..... EN 61770

Ambient conditions
- Operation ..... temperature: 5 – 30 °C, briefly 35 °C, relative humidity: 30 – 85 %, max. altitude: 1,500 m a.s.l.

ETD4

Automatic Endoscope Reprocessor (cont.)

Program Packages Single Flow Control

	Program package, for ETD,
WD00240A	"PAA Standard 1"
WD00242A	"PAA Special 1"
WD00246A	"PAA Special 5"

	Program package, for ETD,
WD00260A	"GA Standard 1"
WD00262A	"GA Special 1"
WD00264A	"GA Special 3"

Description of Program Packages

PAA Standard 1
- Process ..... Peracetic Acid (PAA)
- Description ..... PAA, standard
- Countries ..... Europe
- Compatible ETD4 models WD00222A/-23A/-24A/-25A
- Compatible ETD3 models E0425502/-03/-04/-06

PAA Special 1
- Process ..... Peracetic Acid (PAA)
- Description ..... PAA, UK, without PAA for final rinse 1
- Countries ..... UK, Ireland
- Compatible ETD3 models E0425504

PAA Special 5
- Process ..... Peracetic Acid (PAA)
- Description ..... PAA, France, Heating Final Rinse 1
- Countries ..... France, Austria
- Compatible ETD4 models WD00222A/-23A/-24A/-25A
- Compatible ETD3 models E0425502/-03/-04/-06

GA Standard 1
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Standard
- Countries ..... Europe
- Compatible ETD4 models WD00220A/-21A
- Compatible ETD3 models E0425500/-01

GA Special 1
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Austria France 1
- Countries ..... France, Austria
- Compatible ETD4 models WD00220A/-21A
- Compatible ETD3 models E0425500/-01

GA Special 3
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Austria Special 1
- Countries ..... Austria
- Compatible ETD4 models WD00220A/-21A
- Compatible ETD3 models E0425500/-01

Program Packages Double Flow Control

	Program package, for ETD,
WD00241A	“PAA Standard 2"
WD00247A	“PAA Special 6"

	Program package, for ETD,
WD00261A	“GA Standard 2"
WD00263A	“GA Special 2"
WD00265A	“GA Special 4"

Description of Program Packages

PAA Standard 2
- Process ..... Peracetic Acid (PAA)
- Description ..... PAA, standard (same as PAA Standard 1)
- Countries ..... Europe
- Compatible ETD4 models WD00222A

PAA Special 6
- Process ..... Peracetic Acid (PAA)
- Description ..... PAA, France, Heating Final Rinse 1 (same as PAA Special 5)
- Countries ..... France, Austria
- Compatible ETD4 models WD00222A

GA Standard 2
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Standard (same as GA Standard 1)
- Countries ..... Europe
- Compatible ETD4 models WD00220A

GA Special 2
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Austria France 1 (same as GA Special 1)
- Countries ..... France, Austria
- Compatible ETD4 models WD00220A

GA Special 4
- Process ..... Glutaraldehyde (GA)
- Description ..... GA, Austria Special 1 (same as GA Special 3)
- Countries ..... Austria
- Compatible ETD4 models WD00220A

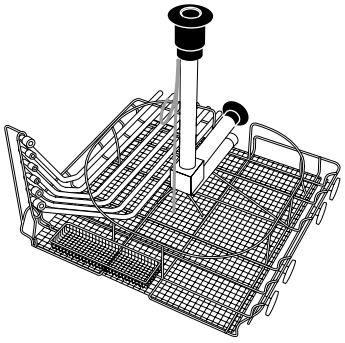
ETD4

Automatic Endoscope Reprocessor (cont.)

Fiberscope Baskets

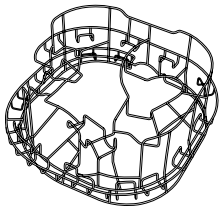
E0424470 Basket “E600”, base module, for ETD4 and ETD3

Includes red adapter 3XMB-109.



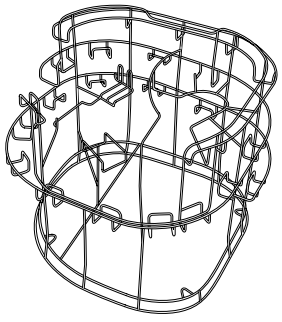
E0424472 Basket “E601”, GI scope module, for ETD4 and ETD3

For GI and BF endoscope series.



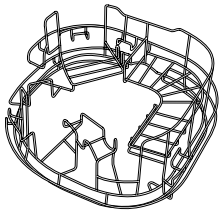
E0424428 Basket “E602”, EUS scope module, for ETD4 and ETD3

For flexible ultrasound endoscopes.



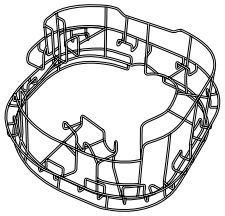
E0425553 Basket “E603”, VISERA scope module, for ETD4 and ETD3

For CYF-V, ENF-V endoscope series.



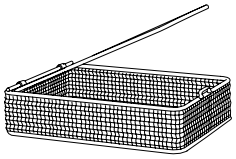
E0425543 Basket “E605”, Pentax scope module, for ETD4 and ETD3

For endoscope adapters, see page 665.

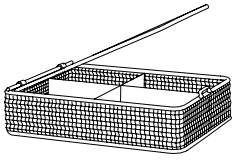


Baskets for Small Instruments

028910 Instrument basket “E363”, for small items, insert 1/6, outer dimensions: 225 x 55 x 150 mm

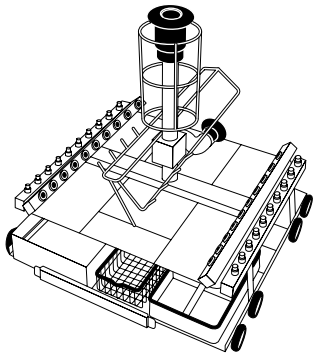


024371 Instrument basket “E451”, for very small items, insert 1/6, removable interior divider, outer dimensions: 225 x 55 x 150 mm

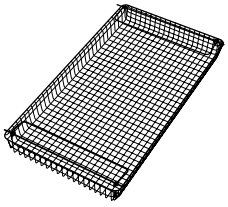


Baskets for Surgical Endoscopy

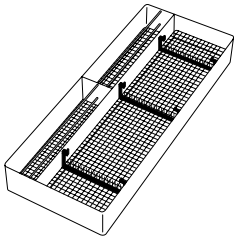
E0424427 Basket “E450”,
for MIS instruments,
for ETD4 and ETD3



024359 Instrument basket “E142”,
for surgical endoscopy,
insert 1/2 for basket E450,
outer dimensions:
480 x 45/55 x 255 mm



024368 Instrument basket “E457”,
for disassembled MIS instruments,
insert 1/2 for basket E450,
outer dimensions:
490 x 62 x 192 mm



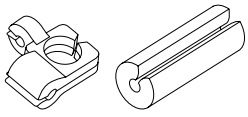
024363 Basket “E444“,
for 1 light-guide cable or 1 suction tube,
for basket E450



For other instrument baskets, see page 675.

Brackets for CYF/HYF scopes

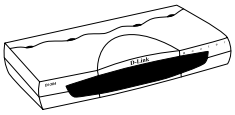
E0424439 Bracket set,
for CYF/HYF series,
10 pcs.,
for ETD4 and ETD3



The fixation of one scope requires one bracket set.

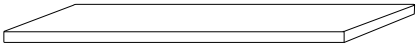
Accessories

E0424449 ISDN router,
set,
for ETD4 and ETD3

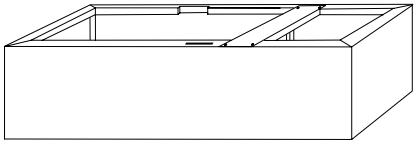


For remote update and operation of the ETD3 machine.

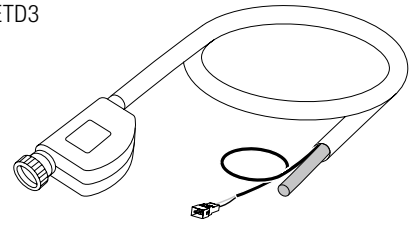
E0425549 Cover,
70 (D) x 90 (W) cm,
for ETD4 and ETD3

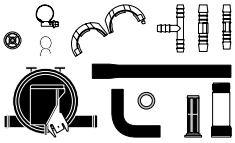


E0424473 Plinth,
30/60/90 cm,
for ETD4
and ETD3

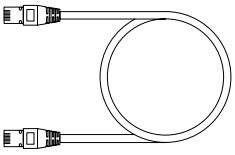


E0425547 Tubing,
for connection to demineralized water supply,
for ETD4 and ETD3





E0424416 Cable, LAN,
for integration with ENDOBASE,
10 m



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miniETD2

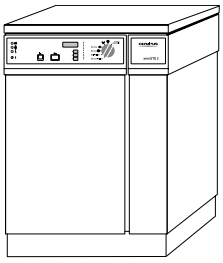
Automatic Endoscope Reprocessor



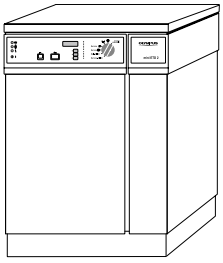
- Designed for smaller endoscopy units with the need to reprocess one endoscope at a time.
- The miniETD2 is compact in size. Only 60 cm in width, the miniETD2 saves space.
- The peracetic acid (PAA) process is also available for single endoscope reprocessing.
- The PAA process prevents any formation of biofilms, is not volatile, does not harm users' and patients' health, and the process runs faster and more effectively!
- Endoscan 2 option is available and provides comprehensive documentation for legal purposes.

Reprocessors

E0425512* Reprocessor “miniETD2”,
peracetic acid process (PAA)*



E0425510* Reprocessor “miniETD2”,
glutaraldehyde process (GA)*



Delivery includes:
main machine, basket E490, basket E363,
adapter 3STD-GI with sealing set, adapter 3XMAJ-885, flow adapter basic tool set

Technical Data

Power supply 400 V (double heater)
- Voltage ..... 400 V, 2(3)N ~ 50 Hz
- Power consumption 6.3 kW

Power supply 230 V (single heater)
- Voltage ..... 230 V, ~ 50 Hz
- Power consumption ..... 3.3 kW

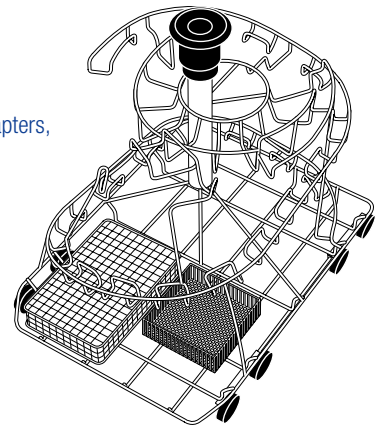
Size
- Dimensions ..... 600 (W) x 850 (H) x 600 (D) mm
- Weight ..... 80 kg
- Max. floor loading ..... 950 N (in operation)

Water supply
- Quality ..... drinking water
- Pressure ..... 1 – 10 bar
- Flow rate ..... 4.9 l/min

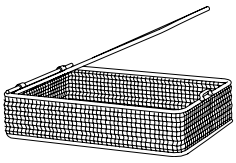
Baskets for miniETD2

E0425550 Basket “E490”,
for miniETD2

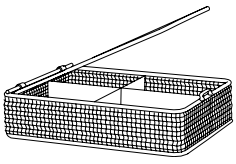
For endoscope adapters, see page 665.



028910 Instrument basket “E363”
for small items,
insert 1/6,
outer dimensions:
225 x 55 x 150 mm

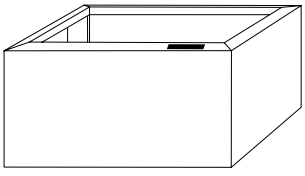


024371 Instrument basket “E451”
for very small items,
insert 1/6,
removable interior divider,
outer dimensions:
225 x 55 x 150 mm



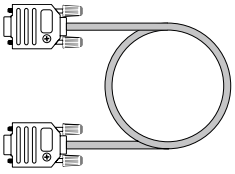
Accessories

024265 Plinth,
for miniETD2



E0424419 Cable,
for Endoscan 2,
5 m

For Endoscan 2, printer, and transponders, see page 664.



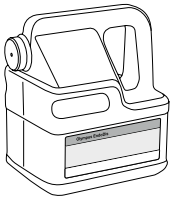
ETD Accessories

for ETD4, ETD3, miniETD2

Chemicals for Peracetic Acid (PAA) Process

E0420002* Disinfectant “EndoDis”, 8.4 l

Color of containers: white
3 containers of 2.8 l (= 8.4 l)



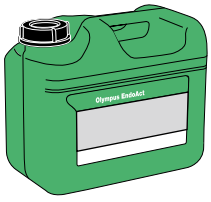
Activator “EndoAct”,
WD00212A* 15 l [1]
E0420004* 12 l [2]

Color of containers: black
[1] 3 containers of 5 l
[2] 3 containers of 4 l



Cleaner “EndoDet”,
WD00211A* 15 l [1]
E0420001* 12 l [2]

Color of containers: green
[1] 3 containers of 5 l
[2] 3 containers of 4 l



Chemicals for Glutaraldehyde (GA) Process

WD00215A* Disinfectant “DETD”, 15 l

Color of containers: blue
3 containers of 5 l



WD00216A* Cleaner “CETD”, 15 l

Color of containers: white
3 containers of 5 l



RFID Tags for EndoID and Endoscan

E0424424 Transponder, set,
for staff,
10 pcs.



Transponder (not shown),
set, 5 pcs.,
E0424404 for EVIS
E0424405 for OES 30 lower GI
E0424406 for OES 30 upper GI
E0424407 for OES 40 GI
E0424408 for BF-30
E0424409 for BF-40
E0424410 for CYF, HYF
E0424432 for CYF-4

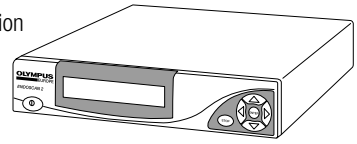
E0424431 Transponder, set

Universal RFID tag for Fujifilm and
Pentax endoscopes, CYF-VA,
5 pcs. with 5 fixation ribbons



Endoscan

024280 Endoscope identification
unit “Endoscan 2”



- For ETD4 Basic,
  ETD3 Basic and miniETD2
- Each reprocessing protocol includes the reprocessing date, the process parameters, name and serial number of the endoscope and the ETD machine.

Delivery includes:
Computing unit, RFID reader

Technical Data

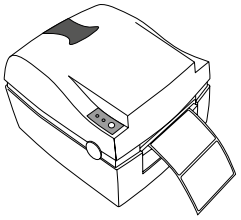
Power supply
- Voltage ..... 110 – 240 V ~
- Frequency ..... 50/60 Hz

Size
- Width ..... 370 mm
- Height ..... 75 mm
- Depth ..... 420 mm

Interfaces
- Connection of ETD systems 4x
- LAN ..... 10/100 MBit Ethernet
- others ..... parallel, keyboard, RS232

Reprocessing Documentation

WD00113A* Printer,
thermotransfer,
for ETD4, ETD3 and miniETD2



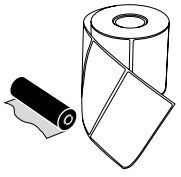
Technical Data

Power supply
- Voltage ..... 110 – 240 V ~
- Frequency ..... 50/60 Hz

Size
- Dimensions ..... 226 (W) x 171 (H) x 285 (D) mm
- Weight ..... 2.72 kg

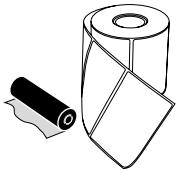
Interfaces ..... serial, parallel, USB

E0424400* Label “EasyCoder”,
label length 105 mm,
set of 525 labels on one roll
and 1 inking ribbon



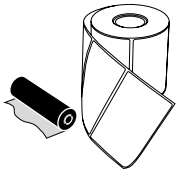
To be used with:
- ETD4
- ETD3 with EndoID (special prolonged programmes)

E0424415* Label “EasyCoder”,
label length 75 mm,
set of 750 labels on one roll
and 1 inking ribbon



To be used with:
- Endoscan 2
- ETD3 with EndoID (standard programmes)

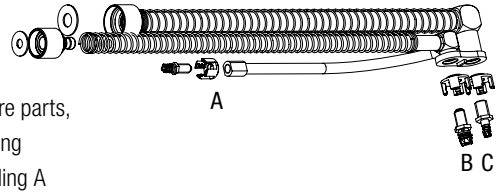
E0424463* Label “EasyCoder”,
label length 60 mm,
set of 900 labels on one roll
and 1 inking ribbon



To be used with:
- Endoscan 1
- ETD2
- Endoscan 2

ETD Adapters (1)

E0424448 Adapter “3STD-GI”



Spare parts,
mut00228 Tubing
mut00235 Sealing A
mut00324 Sealing B
mut00323 Sealing C

E0424447 Adapter “3XMAJ-855”

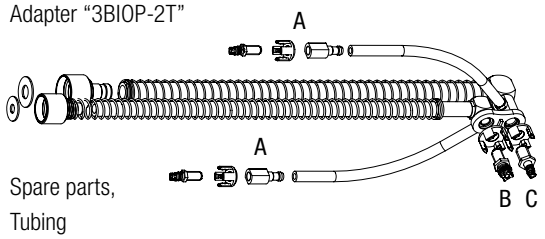


Spare tubing,
mut00237 for 3XMAJ-855

E0424446 Adapter “3XMB-109”

Spare tubing,
M5997080 for 3XMB-109

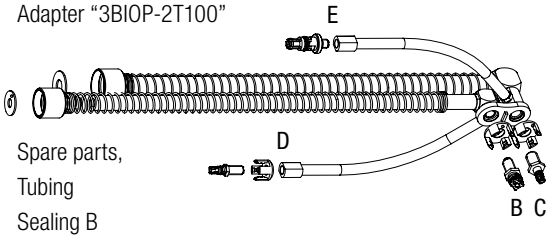
E0424444 Adapter “3BIOP-2T”



Spare parts,
mut00275 Tubing
mut00235 Sealing A
mut00324 Sealing B
mut00323 Sealing C

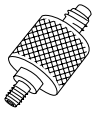
ETD Adapters (2)

E0424443 Adapter “3BIOP-2T100”

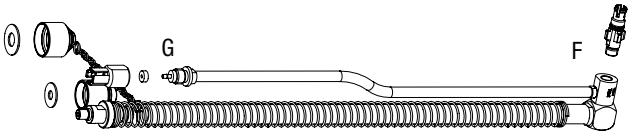


Spare parts,
mut00230 Tubing
mut00324 Sealing B
mut00323 Sealing C
mut00336 Sealing D
mut00335 Sealing E

E0424429 Adapter “3XMB-1”

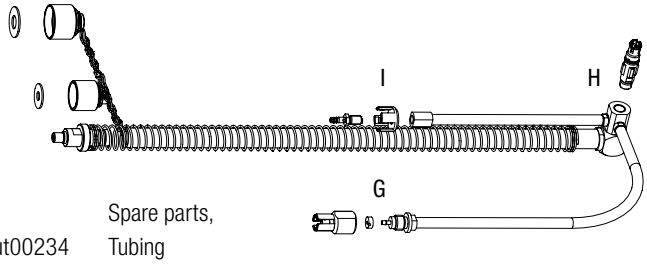


E0424441 Adapter “3BF-20”



Spare parts,
mut00233 Tubing
mut00334 Sealing F
mut00333 Sealing G

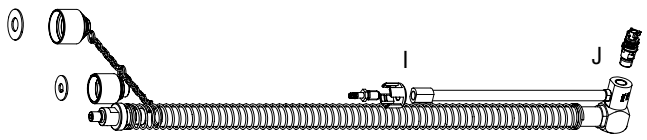
E0424440 Adapter “3BF-20D”



Spare parts,
mut00234 Tubing
mut00333 Sealing G
mut00332 Sealing H
mut00327 Sealing I

ETD Adapters (3)

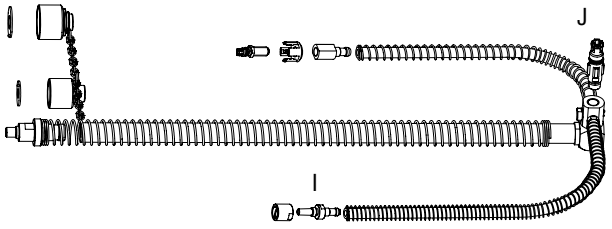
E0424445 Adapter “3BF-40”



Spare parts,

mut00231 Tubing
mut00327 Sealing I
mut00326 Sealing J

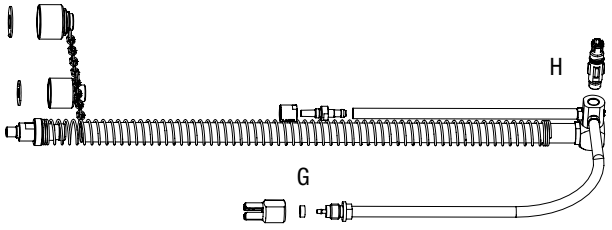
E0425544 Adapter “3BF-UC160”



Spare parts,

mut00348 Tubing
mut00327 Sealing I
mut00326 Sealing J

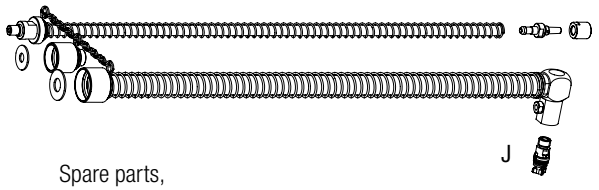
E0424469 Adapter “3CHF”



Spare parts,

mut00291 Tubing
mut00333 Sealing G
mut00332 Sealing H

E0424468 Adapter “3CYF-A”

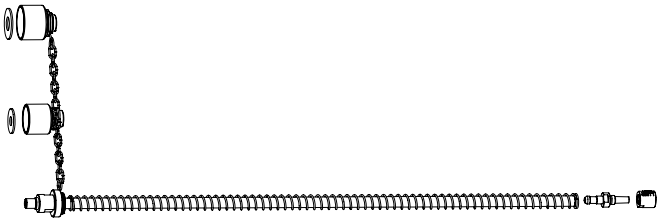


Spare parts,

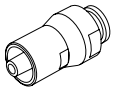
mut00292 Tubing
mut00326 Sealing J

ETD Adapters (4)

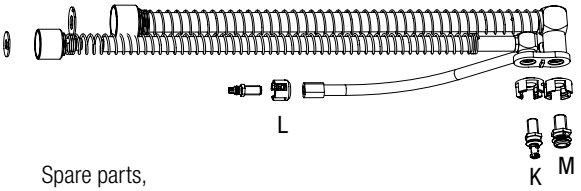
E0424464 Adapter “3LUER”



WD00100A Adapter “3XMAJ-350”



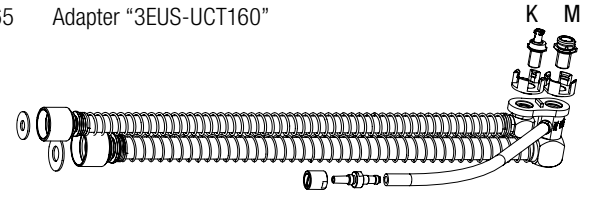
E0424442 Adapter “3EUS-40/160”



Spare parts,

mut00232 Tubing
mut00329 Sealing K
mut00330 Sealing L
mut00328 Sealing M

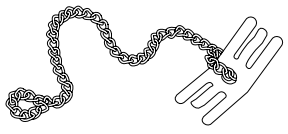
E0424465 Adapter “3EUS-UCT160”



Spare parts,

mut00306 Tubing
mut00329 Sealing K
mut00328 Sealing M

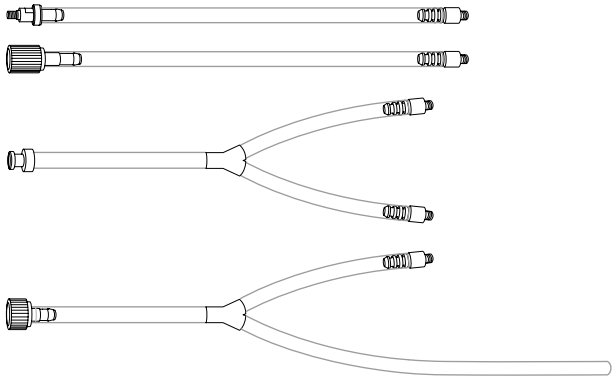
M3099820 CO_2 clamp



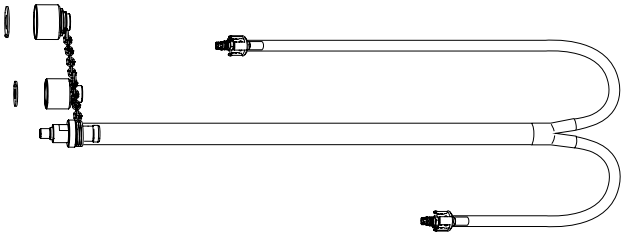
ETD Adapters
(cont.)

ETD Adapters (5)

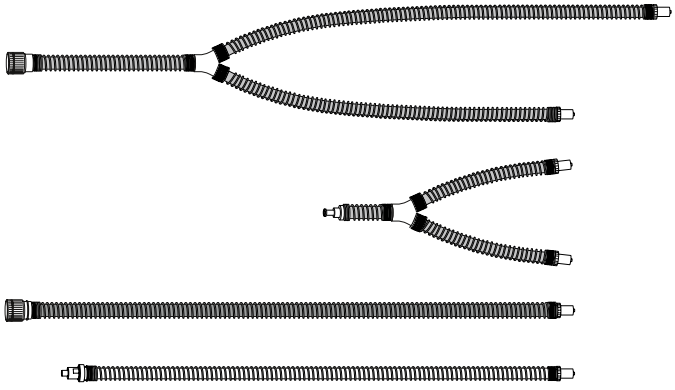
E0424437 Adapter “3Pentax”



E0425554 Adapter “3 Pentax Broncho”

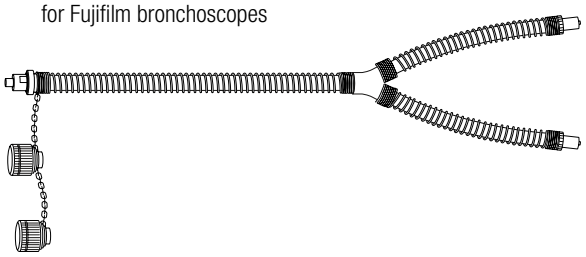


WD00108A Adapter,
for ETD,
for Fujifilm endoscopes



ETD Adapters (6)

WD00109A Adapter,
for ETD,
for Fujifilm bronchoscopes



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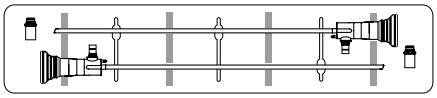
Plastic Instrument Trays



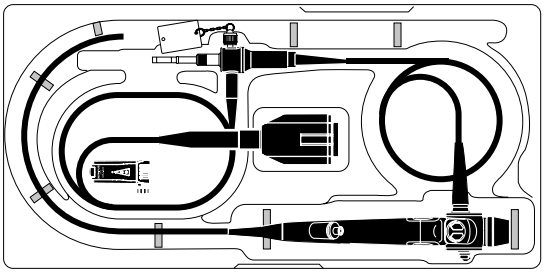
- Custom manufactured for single instruments and complete instrument sets
- Secure and cushioned fixture of the instruments through retainers
- Suitable for gas and steam sterilization, storage, and transportation
- Long service life due to high-performance plastic material (polyphenylsulfone)

Instrument Trays (1)

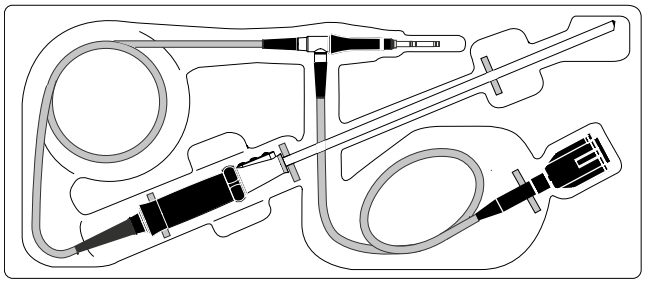
WA05990A Instrument tray,
for telescopes



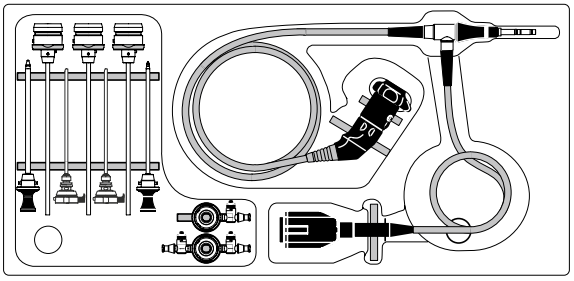
WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series



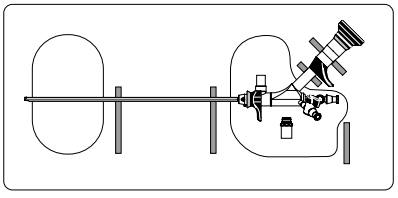
WA59381A Instrument tray,
for long EndoEYE video telescopes



WA05954A Instrument tray,
for TrueView Direct



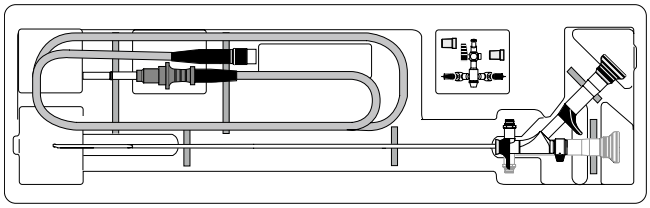
A05961A Instrument tray,



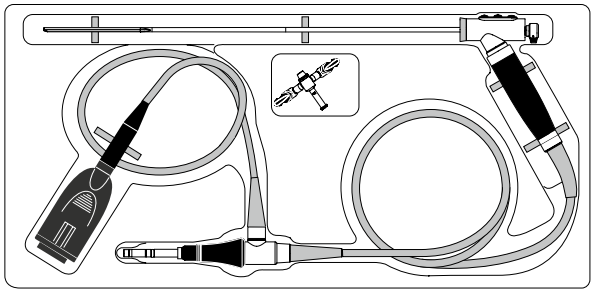
for compact cystoscope and compact hysteroscope

Instrument Trays (2)

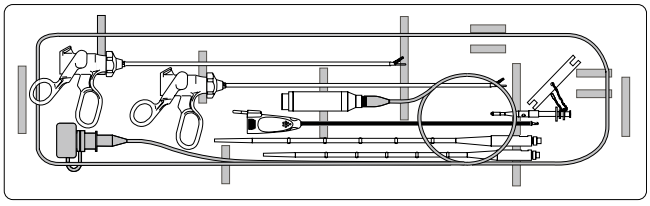
A5961 Instrument tray,
for ureteroscope



WA59383A Instrument tray,
for EndoEYE video ureteroscopes



A05952A Instrument tray,
for SonoSurg instruments



Outer Dimensions

Length x height x width

A05952A	665 x 65 x 204 mm
A05961A	405 x 95 x 200 mm
A5961	665 x 52 x 204 mm
WA05991A	531 x 79 x 255 mm
WA05954A	665 x 52 x 204 mm
WA05990A	446 x 49 x 88 mm
WA59381A	690 x 60 x 295 mm
WA59383A	595 x 51 x 295 mm

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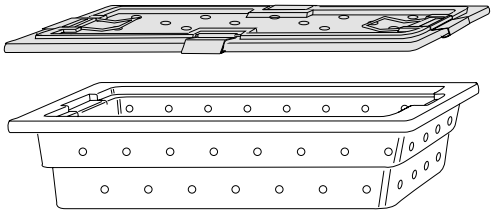
Plastic Instrument Tray System



- Various system case configurations for individual needs
- Custom manufactured for specific and universal instrument arrangements
- Secure and cushioned fixture of the instruments through silicone mats and retainers
- Suitable for gas and steam sterilization, storage, and transportation
- Long service life due to high performance plastic material (polyphenylsulfone)

Instrument Tray

WA05970A Instrument tray,
with lid,
with silicone mat WA05980A,
outer dimensions: 537 x 139 x 268 mm

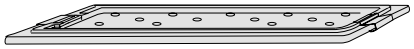


WA05980A Spare mat,
nubby, silicone,
dimensions: 420 x 176 mm,
for WA05970A



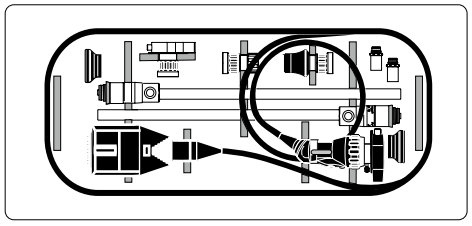
Lid for Insert Trays

WA05974A Lid,
for all insert trays,
except for WA05973A



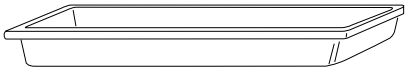
Insert Tray for Telescopes

WA05994A Insert tray,
for 2 telescopes, VISERA camera head, and
video adapter

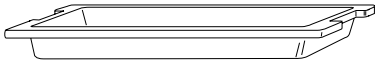


Multi-Purpose Insert Trays

WA05971A Insert tray,
for the upper part of WA05970A,
with silicone mat WA05980A,
outer dimensions:
482 x 60 x 224 mm



WA05973A Insert tray,
for the bottom part of WA05970A,
with silicone mat WA05981A,
outer dimensions:
460 x 39 x 207 mm

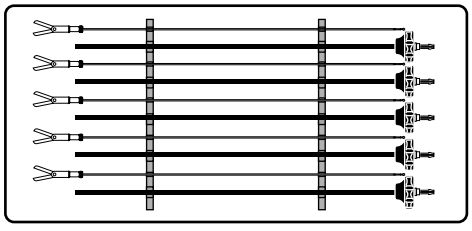


Spare mat,
nubby, silicone,
WA05980A for WA05971A, dimensions: 420 x 176 mm
WA05981A for WA05973A, dimensions: 400 x 176 mm

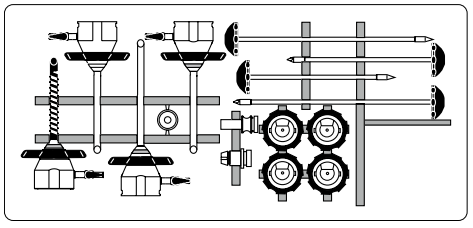


Insert Trays for Surgery/Laparoscopy

WA05972A Insert tray,
for 5 HiQ+ shafts and jaws inserts,
maximum length of instruments: 330 mm,
outer dimensions: 480 x 47 x 224 mm



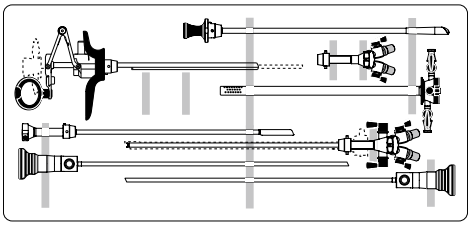
A5977 Insert tray,
for 4 trocars,
outer dimensions: 478 x 68 x 224 mm



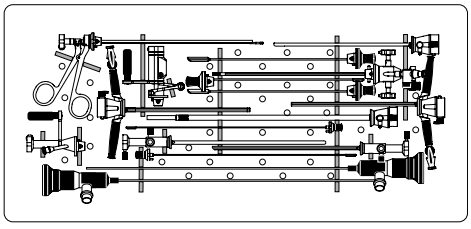
Plastic Instrument Tray System (cont.)

Insert Trays for Urology

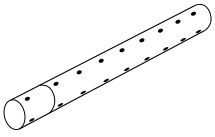
A5976 Insert tray,
for resectoscope, cystoscope, or urethrotome set,
outer dimensions: 478 x 68 x 224 mm



WA05995A Insert tray,
for pediatric urology set,
outer dimensions: 478 x 68 x 224 mm

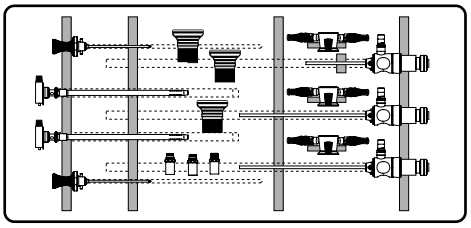


A0285 Sterilization container,
stainless steel,
for HF-resection electrodes

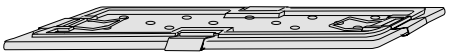


Insert Trays for Arthroscopy

A05951A Insert tray,
for TrueView II and Mini-TrueView telescopes,
outer dimensions: 478 x 41 x 224 mm



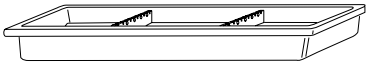
System Chart



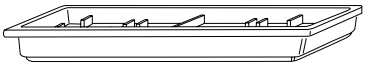
WA05970A



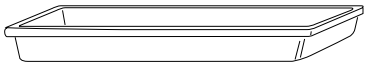
WA05980A



A5952, A5953
A05951A, WA05972A



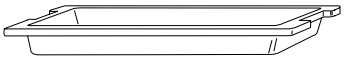
A5976, A5977
WA05994A, WA05995A



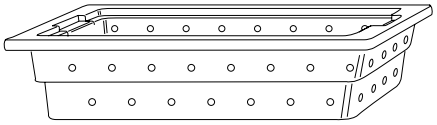
WA05971A



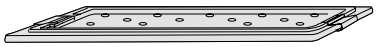
WA05981A



WA05973A



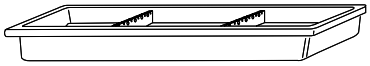
WA05970A



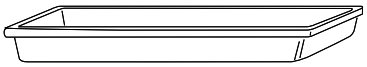
WA05974A



WA05980A



A5953, A5976, A5977,
A05951A, WA05972A, WA05994A, WA05995A

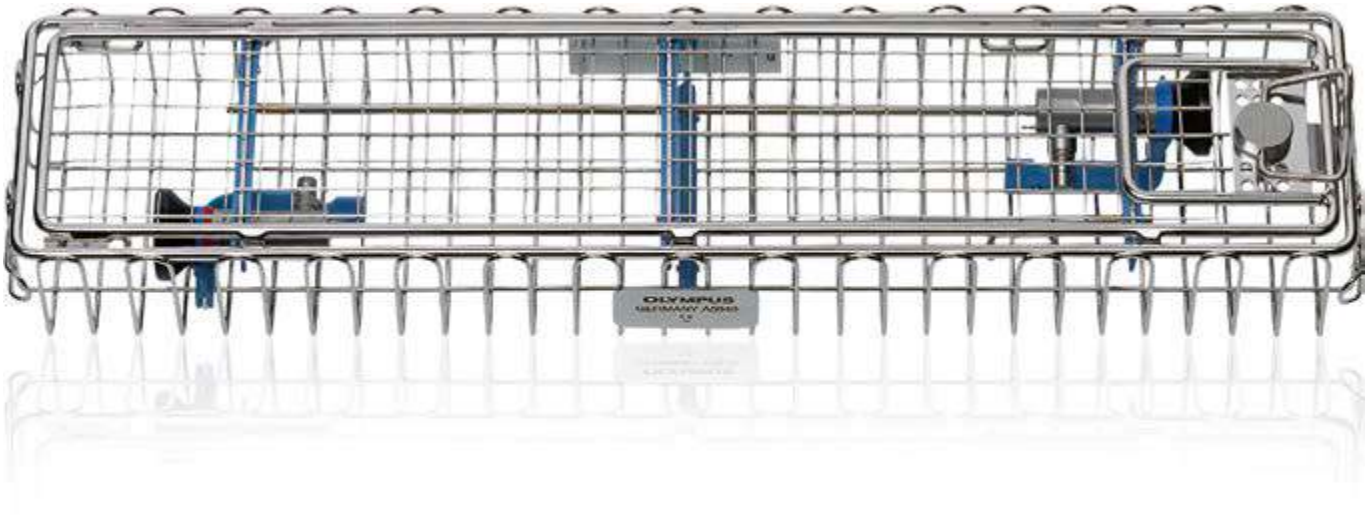


WA05971A

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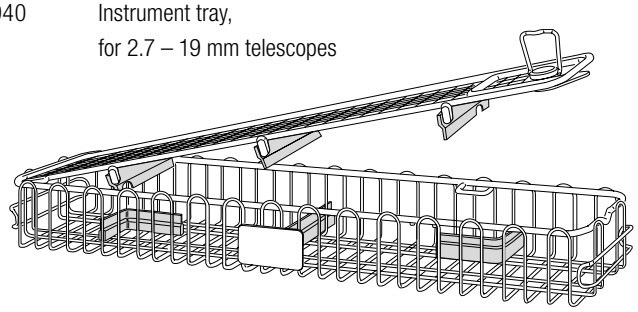
Instrument Baskets



- Universal design for various instruments
- Suitable for the entire reprocessing procedure
- Long service life due to high quality stainless steel material

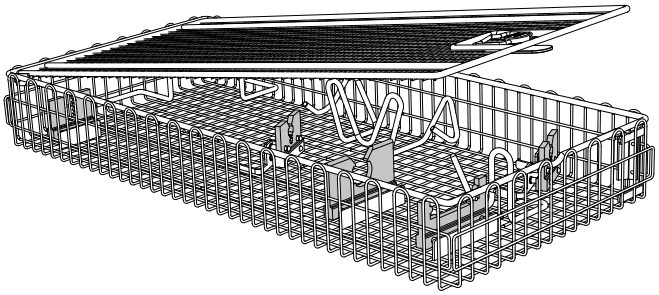
Instrument Basket for Telescopes

A5940 Instrument tray,
for 2.7 – 19 mm telescopes

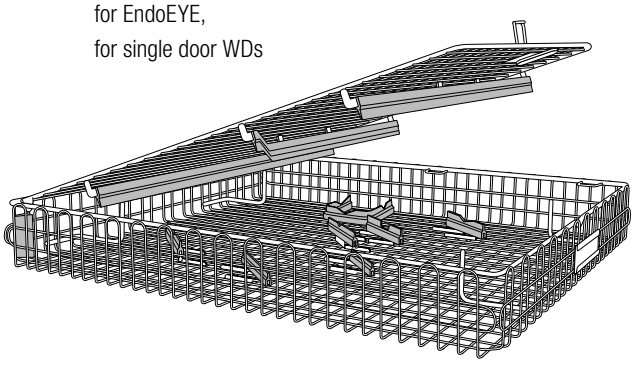


Instrument Basket for Laparoscopy

WA05938A Instrument tray,
wire basket,
for EndoEYE

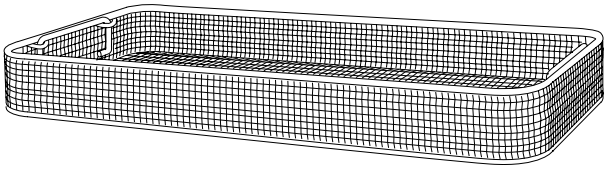


WA05941A Instrument basket,
wire,
for EndoEYE,
for single door WDs

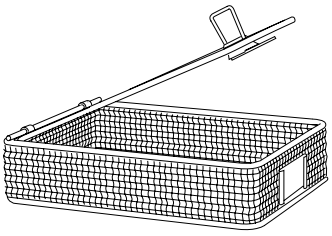


Universal Instrument Baskets

A5942 Instrument tray,
530 x 245 x 60 mm,
for DIN container



A5941 Instrument tray,
for accessories



Outer Dimensions

Length x height x width

A5940	462 x 52 x 105 mm
A5941	225 x 55 x 150 mm
A5942	530 x 245 x 60 mm
WA05938A	580 x 77 x 270 mm
WA05941A	505 x 65 x 460 mm

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Sterilization Trays

for Sinus Endoscopy



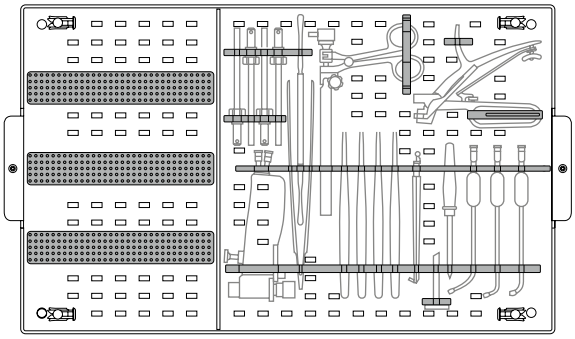
These instrument trays are designed specifically to meet the everyday needs of endoscopic sinus surgery. Individual trays are available to house instruments, forceps, as well as sinuscopes and light guide cables.

- Heavy-gauge, stainless steel-construction
- Silicone inserts on the inside to house and protect the instruments
- Laser-etched outlines to identify instruments in place
- Convenient, stackable design
- Autoclavable

Sterilization Trays

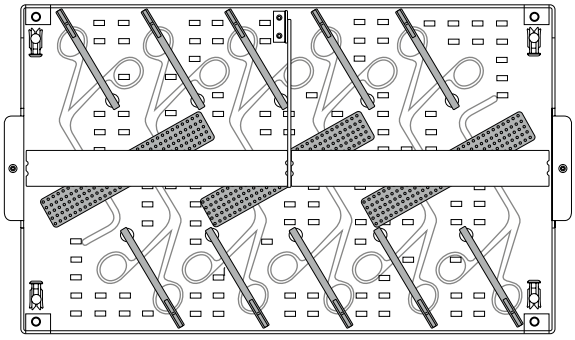
230570 Instrument sterilization case, No. 1,
for sinus surgery

Outer dimensions:
530 x 35 x 310 mm



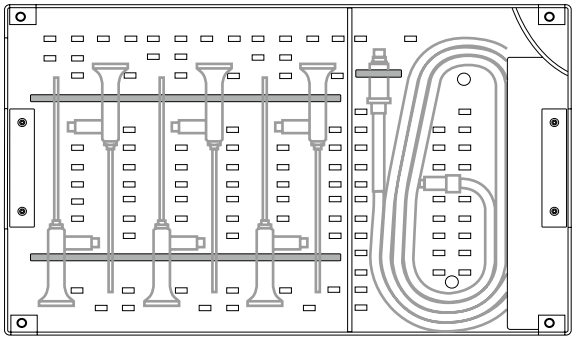
230571 Forceps sterilization case, No. 2,
for endoscopic sinus surgery

Outer dimensions:
530 x 35 x 310 mm



230569 Endoscopy sterilization case, No. 3,
for sinuscopes and light-guide cable

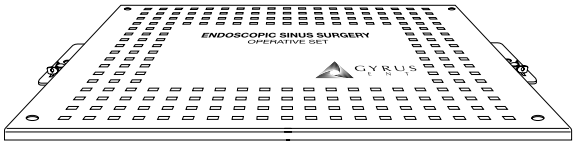
Outer dimensions:
530 x 35 x 310 mm



Lid

230568 Lid for operative sterilization case

For use with 230569, 230570, 230571.
Outer dimensions:
530 x 15 x 310 mm



Manual Cleaning



- Wide range of products for all occasions and most effective cleaning and disinfection

Cleaning Brushes



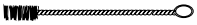
Cleaning brush,
dimensions (brush diameter x total length):

A0441	2.5 x 360 mm
A0446	4.0 x 400 mm
A0444	4.0 x 500 mm
A0221	4.0 x 600 mm
A0443	6.0 x 360 mm
00230	9.0 x 330 mm
A0445	9.0 x 360 mm
A0447	12.0 x 360 mm
00231	14.0 x 330 mm
A0449	16.0 x 360 mm
A0450	20.0 x 360 mm

A0452 Cleaning brush,
1.0 x 700 mm,
for uretero-renoscopes



A0448 Cleaning brush,
4 x 60 mm,
for stopcocks



A0451 Cleaning brush,
for surfaces



026441 Cleaning brush “MH-507”,
for fiberscope attachments



Cleaning brush,
for instrument channel
of fiberscopes,



026799 “BW-15B”
026447 “BW-7B”

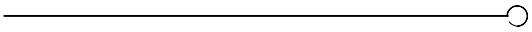
026439 Cleaning brush “BW-15SH”,
for channel opening
of fiberscopes



WA90214A Cleaning brush “MH-362” (not shown),
3.5 x 550 mm, 3 pcs.
for SonoSurg hand instruments

Cleaning Rods And Wires

A0440 Cleaning wire,
0.6 x 500 mm

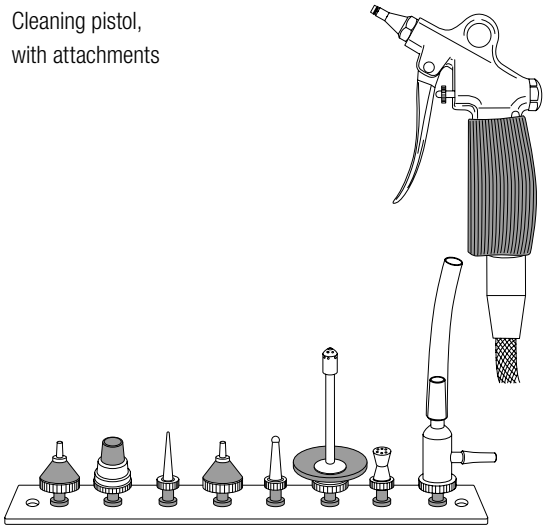


Cleaning rod (not shown),
for LUS-2,

A02956A	“MB-727”, for probes MAJ-984/985
A02957A	“MB-728”, for probes MAJ-981/982/983

Cleaning Pistol

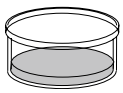
00190 Cleaning pistol,
with attachments



① for syringes and cannulas with “Record”-connector
② for pipettes
③ for catheters, stopcocks, valves, and endoscopes
④ for syringes and cannulas with Luer-lock-connector
⑤ for drainage tubes
⑥ for glass jars
⑦ spray nozzle
⑧ water jet blast for suction

Lubricants

00170 Grease,
for stopcocks



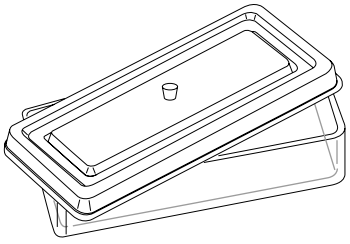
A0273 Oil,
for care and maintenance,
bottle, 20 ml



Trays

Glass tray
with stainless steel lid,
various sizes (mm)

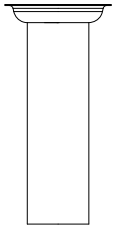
WT813020 Glass tray, with stainless steel lid, size 200 x 100
WT813022 Glass tray, with stainless steel lid, size 220 x 150



Cups

Jar
stainless steel,
50 mm height, 180 mm diameter

WT810175 Jar, stainless steel,
size 50 x 180



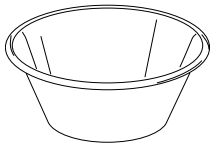
Medicine cup,
stainless steel,
50 mm height,

WT997000 Medicine cup, stainless steel,
size 50



Bowls

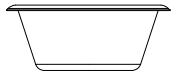
Round bowl
stainless steel,
various volumes (l),
heigths (cm) and diameters (mm)



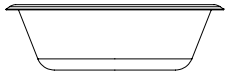
WT997001 Round bowl,
stainless steel,
size 0.75 / 7.5 x 150



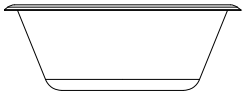
WT997002 Round bowl,
stainless steel,
size 1.0 / 7.5 x 160



WT997003 Round bowl,
stainless steel,
size 2.0 / 7.0 x 220



WT997004 Round bowl,
stainless steel,
size 3.0



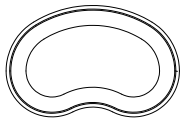
Kidney bowl
stainless steel,
various lengths (mm),
widths (mm) and heights (mm)



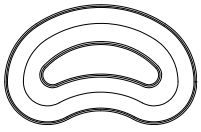
WT997008 Kidney bowl,
stainless steel,
size 170 x 100 x 35



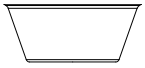
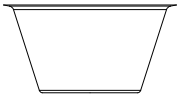
WT997010 Kidney bowl,
stainless steel,
size 250 x 140 x 40



WT997020 Kidney bowl,
stainless steel,
size 275 x 150 x 45



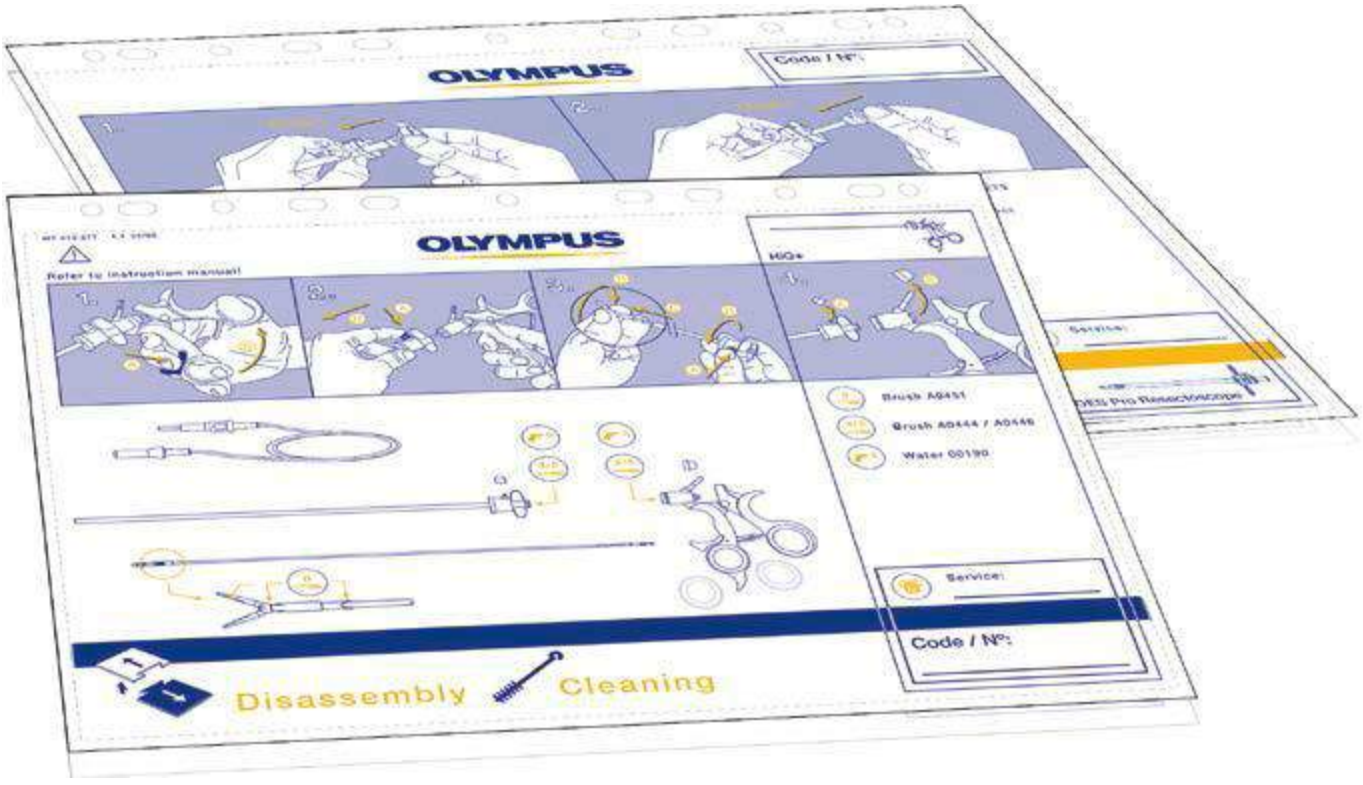
Bowls

	Round bowl graduated, stainless steel various volumes (l), heights (cm) and diameters (mm)	
WT997030	Round bowl, stainless steel, size 0.03 / 2.5 x 50	
WT997050	Round bowl, stainless steel, size 0.05 / 4.5 x 50	
WT997100	Round bowl, stainless steel, size 0.1 / 3.5 x 80	
WT997150	Round bowl, stainless steel, size 0.2 / 5.5 x 90	
WT997408	Round bowl, stainless steel, size 0.5 / 5.5 x 140	

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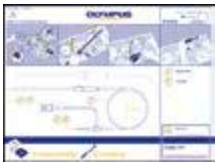
Telescopes

W7018282 Reprocessing instruction card "Telescopes"



Laparoscopy

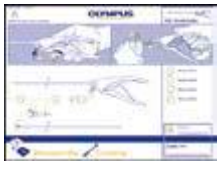
W7018294 Reprocessing instruction card "EndoEye"



W7018277 Reprocessing instruction card "HiQ+ (Monopolar Hand Instruments)"



W7018295 Reprocessing instruction card "HiQ+ Needle Holder"



W7018296 Reprocessing instruction card "HiQ+ Suction/Irrigation"



W7018279 Reprocessing instruction card "BiQ (Bipolar Forceps)"



W7018280 Reprocessing instruction card "TroQSL (Trocars)"



W7018291 Reprocessing instruction card "TroQ (Trocars)"



Urology

W7018284 Reprocessing instruction card "OES Pro Resection Sheaths"



W7018285 Reprocessing instruction card "OES Pro Working Elements"



W7018278 Reprocessing instruction card "OES 4000 Optical Urethrotome"



W7018283 Reprocessing instruction card "OES Pro Pediatric Urology"



W7018293 Reprocessing instruction card "Punch A3661"



Arthroscopy

W7018281 Reprocessing instruction card "TrueView II"



W7018298 Reprocessing instruction card "TrueView Direct"



W7055080

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OLYMPUS SURGICAL TECHNOLOGIES EUROPE
Olympus Winter & Ibe GmbH
Kuehnstr. 61
22045 Hamburg, Germany
www.olympus-oste.eu