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Your Vision, Our Future

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Implants and Ventilation Tubes

General Information on
Materials and Treatments

FLUOROPLASTICS

Fluoroplastics are polymers that are composed of carbon and fluorine atoms. They come from a variety of different resins and are used in a wide range of industrial, medical, and home applications. Teflon is the brand name of one of the more popular varieties of fluoroplastic. Fluoroplastics are highly regarded by otologists for their inertness, smoothness of texture, and biocompatibility. Fluoroplastic parts are molded, machined from rods, or formed from tubing and sheeting. White and blue are the colors used by Gyrus ENT.

HYDROXYLAPATITE

Hydroxylapatite is one of the most biocompatible materials available for implant use. Because its chemical composition resembles that of real bone, it is well tolerated by the human body. Additional stabilization of the reconstructed middle ear chain is provided by “ongrowth” (not bony ingrowth) onto the solid, dense surface of the material. Porous forms of this material (pore size of 150350 microns) allow for bone ingrowth and/or soft tissue ongrowth.

MICRON®

Micron® is Gyrus ENT’s patented finishing process for titanium implants. This proprietary chemical process not only smoothes the surface but also “dulls” it, which reduces glare.

NITINOL

Nitinol (Nickel-Titanium alloy) is a shape-memory metal alloy that has been used in medical applications for years. Since nitinol “self-fashions” with heat, the crimping maneuver is dramatically simplified.

PACIFIC®

PacifiC® is Gyrus ENT’s tradename for a patented phosphorylcholine (PC) coating applied to fluoroplastic ventilation tubes. PC is a chemical group that occurs in membranes of all human cells. This group is zwitterionic in nature, meaning that it has both positive and negative charges that are within relatively close proximity. Consequently, PC groups tend to attract and bind large numbers of water molecules tightly around themselves, which makes it energetically unfavorable for other materials to interact. PacifiC® is a unique coating that mimics the zwitterionic structure of natural membranes. When applied to medical devices, properties such as enhanced resistance to bacterial adhesion are conferred through this “biomimicry.”

PLATINUM

Platinum is a highly corrosive resistant material and very ductile metal that is well tolerated by the body. Devices made from platinum wire or ribbon can easily be adjusted or crimped by a physician, and will retain their formed shape without “springback.”

POLYETHYLENE

Polyethylene, which is composed of only carbon and

hydrogen atoms, is a popular implant material used in a variety of microsurgery applications. Bioinertness and the ability to have smooth surfaces are but a few of the qualities that make polyethylene appropriate for otology implants. We manufacture all polyethylene using white or blue colors.

POROUS POLYETHYLENE

Porous polyethylene (PlastiPore) is formed by sintering many individual polyethylene resin particles. It permits tissue ingrowth into the interconnecting pores of the implant material. The base resin, polyethylene, is known to be a very inert material. The natural white color is the only one used by Gyrus ENT.

SILICONE

Silicone is a material that is commonly used in medical implants due to its compliancy and elasticity. It is known for its inertness, smoothness, and lack of tissue reaction.

STAINLESS STEEL

Stainless steel (ASTM F 138, Grade 2) is special quality implant grade steel that has long been in use in medical implants. It has a balanced corrosion resistant chemistry and an extremely clean microstructure. Stainless steel parts are machined from rods. Wire made of this material is also used for many Gyrus ENT products.

TANTALUM

Tantalum (ASTM F 560) is a highly corrosion resistant metal that is well tolerated by delicate ear tissue. It is used in a variety of medical applications. Due to its malleability, it will, like platinum, retain a formed shape without “springback.”.

TITANIUM

Titanium (ASTM F 136) is used in many medical implants. It has excellent corrosion resistance and is well tolerated by tissue. The material is lightweight and MRI compatible.

ULTRASIL™

UltraSil™ is Gyrus ENT’s name for a patented surface treatment applied to silicone ventilation tubes. The treatment involves bombarding the silicone with high-energy argon ions in order to improve its surface properties. As a result of the ion-implantation, the surface of the silicone is “smoothed” and its critical surface tension is increased. These results, acting alone or in concert, may contribute to the “minimally bioadhesive” quality of the UltraSil™ material.

PK[®] Technology and Radio Frequency Systems

General Information

PK[®] TECHNOLOGY

PK[®] Technology is Gyrus' creative delivery of radio frequency (RF) energy to enable superior surgical results. It is the controlled application of RF energy across several platforms. PK[®] Technology achieves a wide range of tissue effects; tissue division, coagulation, lesioning, vessel sealing. PK[®] Technology transforms surgical techniques by making RF energy more intuitive and simple to use, while broadening the tissue effects available from a single technology source and improving surgical standards of care through less invasive methods.

TEMPERATURECONTROLLED RADIO FREQUENCY (TCRF)

Temperature Controlled Radio Frequency (TCRF), for the Somnoplasty[®] procedure, is a minimally invasive surgical technology that uses controlled radio frequency current to reduce tissue volume in a precise, targeted manner. Using low temperature and low power RF energy, the system generates submucosal lesions in the soft tissues of the upper airway, which are resorbed by the body to reduce tissue volume.

PLASMACISION[®]

PlasmaCision[®] is an expression of PK[®] Technology. It is an advanced RF surgical technology that cuts and coagulates Precisely, Cleanly, Hemostatically and Safely. Using a proprietary bipolar RF output and a unique PlasmaKnife[™] instrument design, PlasmaCision[®] divides tissue, using precise bipolar energy, with selectable control over thermal margin at the incision, while providing the conditions needed for less pain and quicker healing.

PK DIEGO[®]

A third expression of PK[®] Technology is PK diego[®]. PK diego[®] combines the award-winning diego[®] powered mechanical dissection platform and PK[®] technology. PK diego[®] blades allow the surgeon the option to control ordinary bleeding either while dissecting, or discretely. PK diego[®] blades create a gentle hemostatic effect with minimal thermal spread, less smoke and char than are normally associated with monopolar electrosurgery.

As a manufacturer of surgical products, we often receive inquiries from customers asking for information on the care of instruments. These questions encompass sterilization, cleaning methods, proper sharpening and other repair techniques. Described here are the considerations of design, materials, and manufacturing methods important for surgical instruments.

INSTRUMENT MATERIALS

In order to better understand the importance of proper maintenance of instruments, a discussion of the different types of materials and their most common use is in order. Just as the intended use determines the design, material, and required finish to a great degree, so do all of these factors influence the necessary maintenance in the hospital.

EBONY FINISH

For more than fifty years Gyrus ENT has been finishing microsurgical instrument patterns with a proprietary Ebony finish.

The Ebony finishing process creates a safe, blackened surface on instruments, achieving maximum light dissolution. By retarding glare from highpowered surgical microscopes, a surgeon can concentrate on the surgical site.

POLYPROPYLENE

Polypropylene is a common plastic consisting of carbon and hydrogen atoms that is commonly used in handles for disposable instruments.

THERMOPLASTIC

Thermoplastic – a category of plastics that becomes increasingly malleable when heated above certain temperatures.

TUNGSTEN CARBIDE

A very hard material used in knives, burrs, blades, and inserts for jaws of some scissors, forceps, and needle holders.

STAINLESS STEEL

Despite the multitude of papers, articles, and research reports on this material, the misconception that “stainless” will not stain or corrode still lingers. Although it is strong, durable, aesthetically appealing, and ranks high among corrosion-resistant metals, stainless steel can and will corrode under certain conditions.

Corrosion of Gyrus ENT surgical grade stainless steel instruments can be minimized by observing the suggestions for usage, cleaning, sterilization, and storage.

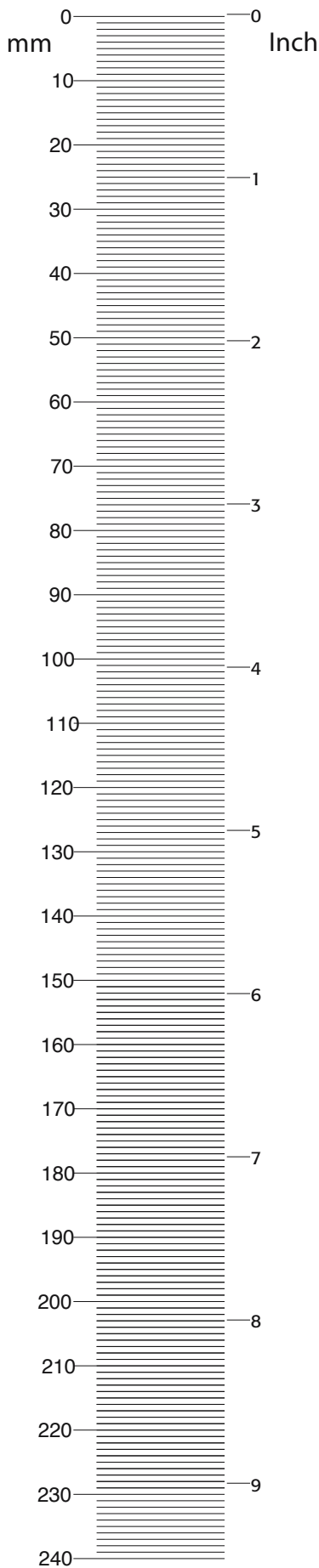
Equivalents

SUCTION TUBING EQUIVALENTS

Size		Approx. O.D.	
French Gauge No.		mm	in.
3	•	1.0	.039
4	•	1.3	.053
5	•	1.7	.066
6	•	2.0	.079
7	•	2.3	.092
8	•	2.7	.105
9	•	3.0	.118
10	•	3.3	.131
11	•	3.7	.144
12	•	4.0	.158
13	•	4.3	.170
14	•	4.7	.184
15	•	5.0	.197
16	•	5.3	.210

NEEDLE TUBING EQUIVALENTS

Size		Approx. O.D.	
Gauge No.		mm	in.
26	•	0.4	.018
24	•	0.5	.022
22	•	0.7	.028
20	•	0.9	.035
18	•	1.3	.053
16	•	1.6	.065
14	•	2.1	.083
12	•	2.8	.109
10	•	3.4	.134
8	•	4.2	.165
6	•	5.1	.203



MILLIMETER EQUIVALENTS							
MM	=	INCHES	MM	=	INCHES	MM	= INCHES
.1	=	.00394	21.	=	.82677	48.	= 1.88976
.2	=	.00787	22.	=	.86614	49.	= 1.92913
.3	=	.01181	23.	=	.90551	50.	= 1.96850
.4	=	.01575	24.	=	.94488	50.8	= 2
.5	=	.01968	25.	=	.98425	51.	= 2.00787
.6	=	.02362	25.4	=	1	52.	= 2.04724
.7	=	.02756	26.	=	1.02362	53.	= 2.08661
.8	=	.03149	27.	=	1.06299	54.	= 2.12598
.9	=	.03543	28.	=	1.10236	55.	= 2.16535
1.	=	.03937	29.	=	1.14173	56.	= 2.20472
2.	=	.07874	30.	=	1.18110	57.	= 2.24409
3.	=	.11811	31.	=	1.22047	58.	= 2.28346
4.	=	.15748	32.	=	1.25984	59.	= 2.32283
5.	=	.19685	33.	=	1.29921	60.	= 2.36220
6.	=	.23622	34.	=	1.33858	61.	= 2.40157
7.	=	.27559	35.	=	1.37795	62.	= 2.44094
8.	=	.31496	36.	=	1.41732	63.	= 2.48031
9.	=	.35433	37.	=	1.45669	63.5	= 2.5
10.	=	.39370	38.	=	1.49606	64.	= 2.51968
11.	=	.43307	38.1	=	1.5	65.	= 2.55905
12.	=	.47244	39.	=	1.53543	66.	= 2.59842
12.7	=	.5	40.	=	1.57480	67.	= 2.63779
13.	=	.51181	41.	=	1.61417	68.	= 2.67716
14.	=	.55118	42.	=	1.65354	69.	= 2.71653
15.	=	.59055	43.	=	1.69291	70.	= 2.75590
16.	=	.62992	44.	=	1.73228	71.	= 2.79527
17.	=	.66929	45.	=	1.77165	72.	= 2.83464
18.	=	.70866	46.	=	1.81102	73.	= 2.87401
19.	=	.74803	47.	=	1.85039	74.	= 2.91338
20.	=	.78740					
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						76.	= 2.99212
						76.2	= 3
						77.	= 3.03149
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						80.	= 3.14960
						81.	= 3.18897
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						84.	= 3.30708
						85.	= 3.34645
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						87.	= 3.42519
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						97.	= 3.81889
						98.	= 3.85826
						99.	= 3.89763
						100.	= 3.93700
						101.6	= 4



Your Vision, Our Future

GYRUS ENT

Service Center

1-800-262-3542

Before sending any product to be serviced or repaired, contact the ENT Service Center at 1-800-262-3542. Product which is to be serviced or repaired whether in or out of warranty should be returned to:

Gyrus ENT, L.L.C.
Attn: Service Center
2925 Appling Rd.
Bartlett, TN 381333901

Please include, at a minimum, a description of the condition or symptoms of the product, the account number, the shipping address, invoice number, date of purchase, contact person and the telephone number.

Never return contaminated products. This is a violation of Federal Law and presents a real health hazard to all individuals handling the products. All returned products should be thoroughly cleaned, disinfected and sterilized as appropriate. Product that has not been properly cleaned will receive an additional \$150.00 cleaning charge.

For any questions regarding servicing or repairs, please contact the Service Center at 1-800-262-3542.

1					
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111400	10021	122411	5011	127003	5052
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LIGHT-GUIDE ADAPTERS

Light-Guide Adapters
for Fiberscopes ENF-415

**EXPLORE NEW
POSSIBILITIES**





“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 may make 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 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 fine capillary patterns of the mucous membranes, which are normally difficult to distinguish.



ENF-VQ

Rhino-Laryngo Videoscope (cont.)



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 in 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

ENF-VQ Videoscope

Delivery includes:
Videoscope and ETO cap

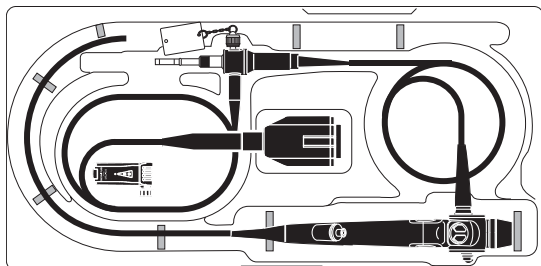
Technical data

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 light-guide adapters, see sheet ENF-415.

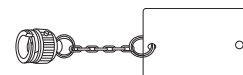
Instrument Tray for Flexible Endoscopes

WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series,
outer dimensions: 531 x 79 x 255 mm

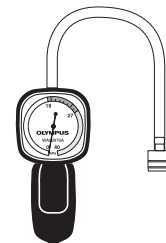


Accessories

MB-156 ETO cap

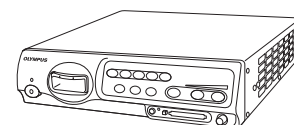


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



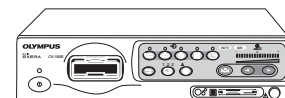
Video Systems

OTV-S7Pro VISERA Pro video system



For details, see sheets EQ-116/-117.

CV-180 EVIS EXERA II video system



For details, see sheets EQ-020/-021.

ENF-V2

Rhino-Laryngo Videoscope



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

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

Rhino-Laryngo Videoscope ENF-V2

ENF-V2 Videoscope

Delivery includes:

Videoscope, ETO cap and carrying case

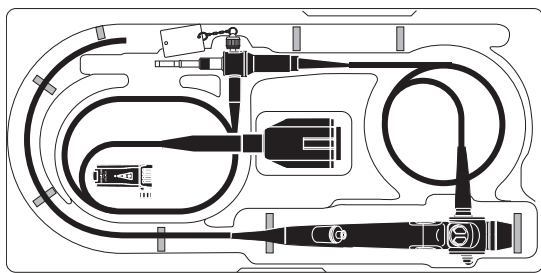
Technical data

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 sheet ENF-415.

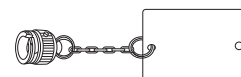
Instrument Tray for Flexible Endoscopes

WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series,
outer dimensions: 531 x 79 x 255 mm

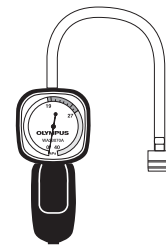


Accessories

MB-156 ETO cap

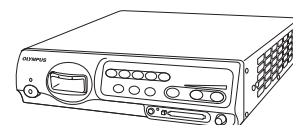


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



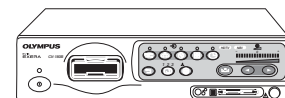
Video Systems

OTV-S7Pro VISERA Pro video system



For details, see sheets EQ-116/-117.

CV-180 EVIS EXERA II video system



For details, see sheets EQ-020/-021.



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



EVIS
EXERA II



Rhino-Laryngo Videoscope ENF-VT2

ENF-VT2 Videoscope

Delivery includes:

Videoscope, 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

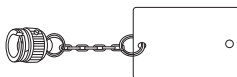
Technical data

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 sheet ENF-415.

Accessories

MB-156 ETO cap



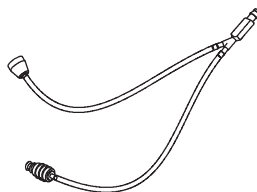
MH-507 Cleaning brush,
for channel-opening



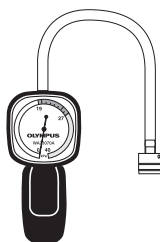
BW-15B Cleaning brush,
for instrument
channel



MAJ-222 Suction cleaning adapter

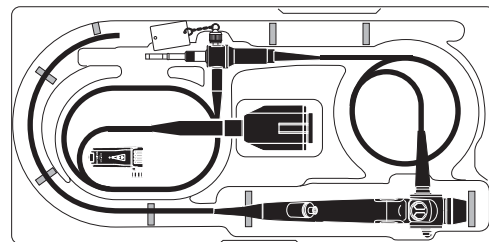


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



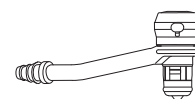
Instrument Tray for Flexible Endoscopes

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,
MAJ-209² single use, 20 pcs.
MAJ-207² reusable, 10 pcs.



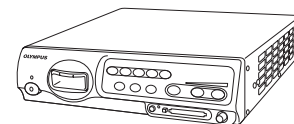
Biopsy valve,
MAJ-210¹ single use, 20 pcs.
MD-495³ reusable, 10 pcs.



For Endo-Therapy instruments, see sheet ENF-330.

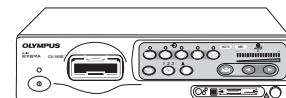
Video Systems

OTV-S7Pro VISERA Pro video system



For details, see sheets EQ-116/-117.

CV-180 EVIS EXERA II video system



For details, see sheets EQ-020/-021.

¹ Only available in Europe and other countries (except Asia)

² Not available in some sales territories

³ Only available in Asia



Finally the long awaited videoscope for in-office unsedated esophagoscopy has arrived. Featuring color-consistent high-resolution images and performance that your high stress world demands.

- ✓ **Ergonomic design:**
The ergonomically-designed control section gives you comfort and control for easier handling and smoother operation. Four programmable switches on the control section can be set to easily activate frequently used functions.
- ✓ **Superb treatment:**
A large 2 mm channel allows easy insertion of endotherapy accessories for a variety of diagnostic and therapeutic procedures such as biopsy and the removal of foreign objects.
- ✓ **Excellent orientation:**
The PEF-V's tip diameter is a slim 5.3 mm, allowing smooth insertion without sedation. Its wide field of view and angulation range make orientation in the aerodigestive tract easier.

Transnasal Esophago Videoscope PEF-V

PEF-V Videoscope

Delivery includes:

Videoscope, biopsy valve MAJ-1218 (20 pcs.), channel plug MAJ-1231, injection tube MAJ-1232, suction cleaning adapter MAJ-1219, cleaning brushes MH-507, BW-20T, lubricant MB-146, and ETO cap

Technical data

Field of view 120°
 Outer diameter (distal tip) 5.3 mm
 Outer diameter 5.2 mm
 Working length 650 mm
 Maximum angulation (up) 180°
 Maximum angulation (down) 130°
 Instrument channel Ø 2.0 mm

For light-guide adapters, see sheet ENF-415.

Accessories for Reprocessing

MB-156 ETO cap



MH-507 Cleaning brush,
for channel-opening



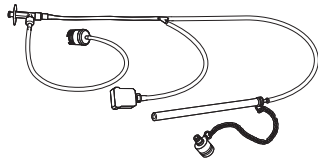
BW-20T Cleaning brush,
for instrument
channel



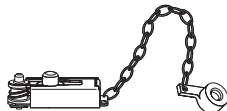
MAJ-1219 Suction cleaning adapter



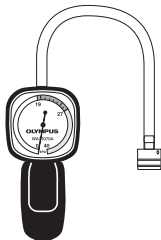
MAJ-1232 Injection tube



MAJ-1231 Channel plug



WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



Accessories

MAJ-1218 Biopsy valve,
single use, 20 pcs.

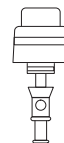


For Endo-Therapy instruments, see sheet ENF-330.

MAJ-1247 Suction valve



MAJ-1248 Air/water valve

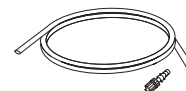


MB-146 Lubricant, silicone oil

MAJ-422 Gas adapter



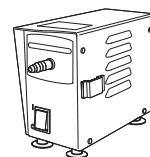
MAJ-1196 Tubing,
for air supply



MD-431 Water container

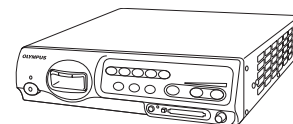


MAJ-1203 Air/water supply pump



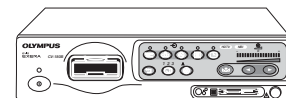
Video Systems

OTV-S7Pro VISERA Pro video system



For details, see sheets EQ-116/-117.

CV-180 EVIS EXERA II video system



For details, see sheets EQ-020/-021.

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 miniature light source EndoLED provides enormous bright and whitish light to ensure clear visualization of the vocal cords everywhere inside and outside the medical facility.

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

Rhino-Laryngo Fiberscope ENF-GP

ENF-GP Fiberscope

Delivery includes:

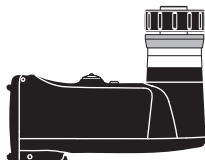
Fiberscope, ETO cap, light-guide adapter MAJ-900,
and carrying case

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

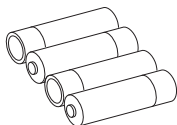


for rechargeable batteries
(requires 2 batteries of 200899),
with battery status indicator (lasts up to 3 hrs.)

Technical Data

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

200899 4 batteries,
including charger,
AA type

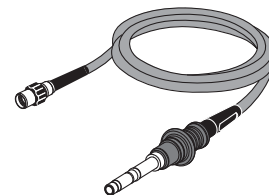


Light-Guide Adapter

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



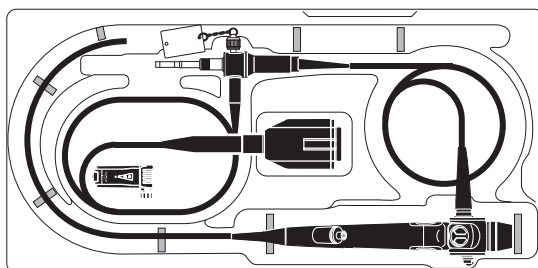
WA03200A Light-guide cable,
size S,
plug type,
3 m,
CF type



For light-guide adapters,
see sheet ACC-150.

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

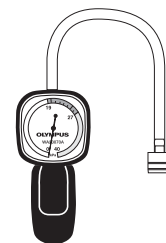


Accessories

MB-156 ETO cap



WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



ENF-P4

Rhino-Laryngo Fiberscope



The diagnostical rhino-laryngo fiberscope ENF-P4 represents the gold standard for a safe rhino-laryngo diagnosis.

Due to the latest fiber optic technology the ENF-P4 shows bright images and high resolution with a slim outer diameter of 3.4 mm.

The working length of 300 mm facilitates diagnosis behind the vocal cords, or the distance to the patient might be enlarged for hygienical reasons, if required.

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

Rhino-Laryngo Fiberscope ENF-P4

ENF-P4 Fiberscope

Delivery includes:

Fiberscope, ETO cap and carrying case

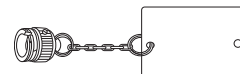
Technical data

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°

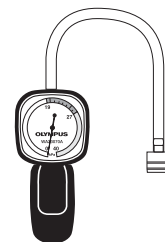
For light-guide adapters, see sheet ENF-415.

Accessories

MB-156 ETO cap

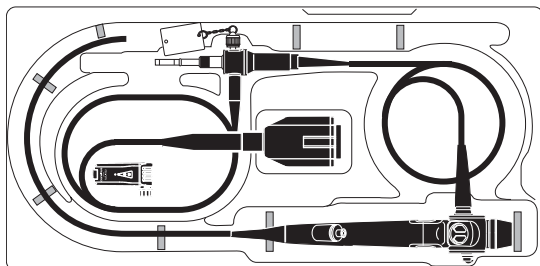


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



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





The ultra-slim 2.2 mm insertion section of this flexible rhino-laryngoscope facilitates minimal invasive access even with difficult anatomy 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

ENF-XP Fiberscope

Delivery includes:

Fiberscope, ETO cap, protection tube,
and carrying case

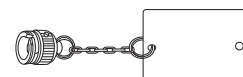
Technical data

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°

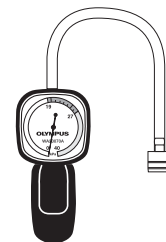
For light-guide adapters, see sheet ENF-415.

Accessories

MB-156 ETO cap

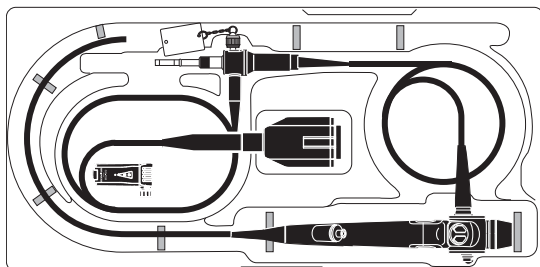


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



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



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. Due to the slim outer diameter applications can be performed gently under local anesthesia. The working length of 365 mm allows for biopsies even in difficult accessible areas.

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

Rhino-Laryngo Fiberscope ENF-T3

ENF-T3 Fiberscope

Delivery includes:

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

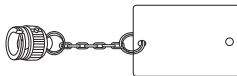
Technical data

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 sheet ENF-415.

Accessories

MB-156 ETO cap



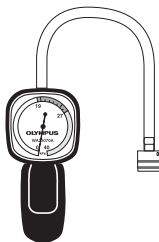
MH-507 Cleaning brush,
for the channel opening



BW-15B Cleaning brush,
for the instrument
channel

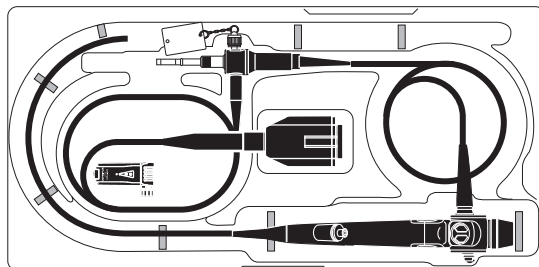


WA23070A Leakage tester,
for manual use,
with indicator,
for all Olympus surgical fiberscopes



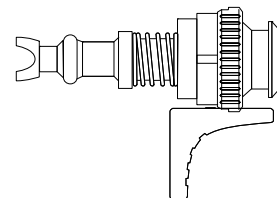
Instrument Tray for Flexible Endoscopes

WA05991A Instrument tray,
for flexible endoscopes of CHF, CYF, ENF, HYF, LF,
and URF series,
outer dimensions: 531 x 79 x 255 mm

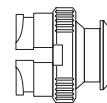


Attachments

MD-493 Valve,
for aspiration



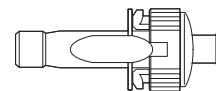
MD-51 Valve holder,
for biopsy valve MAJ-210,
spare for MD-493



MAJ-210 Biopsy valve,
single use,
20 pcs.



MB-884 Syringe valve



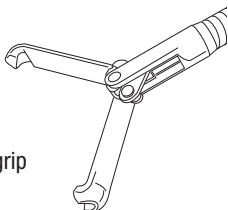
For Endo-Therapy instruments, see sheet ENF-330.

Reusable Grasping Forceps

For ENF-VT2

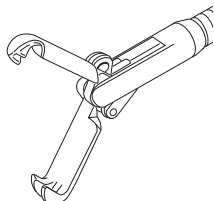
FG-53SX-1 Grasping forceps,
1.85 x 700 mm

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



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

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



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

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



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

- Silicone tip for slippery, flat objects



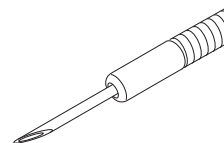
Injection Needle

For ENF-VT2 and PEF-V

- 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

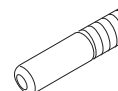
MAJ-75/
NM-8L-1

Cannula,
0.6 x 1650 mm,
6 pcs.,
sterile, single use



MAJ-74

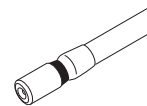
Sheath,
for needle MAJ-75 (NM-8L-1),
1 pc., reusable



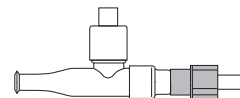
Reusable Spray Catheter

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

PW-6C-1 Cannula,
1050 mm, for ENF-VT2
PW-6P-1 Cannula,
1900 mm, for PEF-V



MAJ-929 Valve,
for PW-6C-1

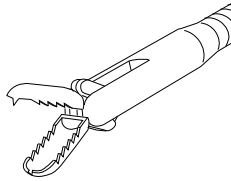


Single Use Biopsy Forceps

For ENF-VT2, ENF-T3, and PEF-V (FB-52C-1 only)

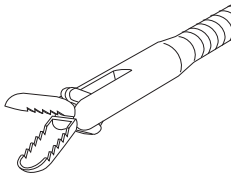
FB-52C-1 Biopsy forceps,
fenestrated,
1.8 x 1050 mm

- 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



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

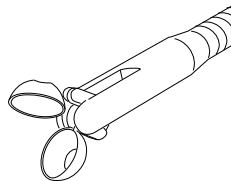
- For biopsy of tough tissue
- Alligator jaws to prevent slippage



FB-19C-1 Biopsy forceps,
fenestrated,
1.8 x 1050 mm

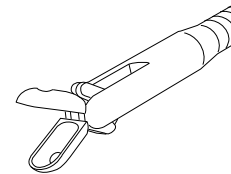
FB-19CR-1 1.9 x 1050 mm, rotatable

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



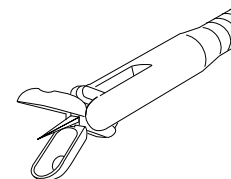
FB-21C-1 Biopsy forceps,
ellipsoid,
fenestrated,
1.8 x 1050 mm

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



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

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

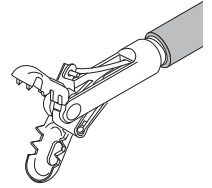


Single Use Biopsy Forceps

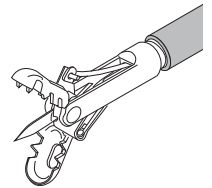
For ENF-VT2

- 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

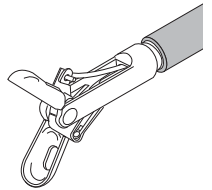
FB-211D Biopsy forceps,
alligator jaws,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



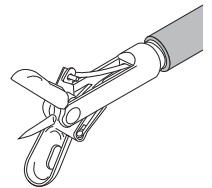
FB-221D Biopsy forceps,
alligator jaws, with needle,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



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

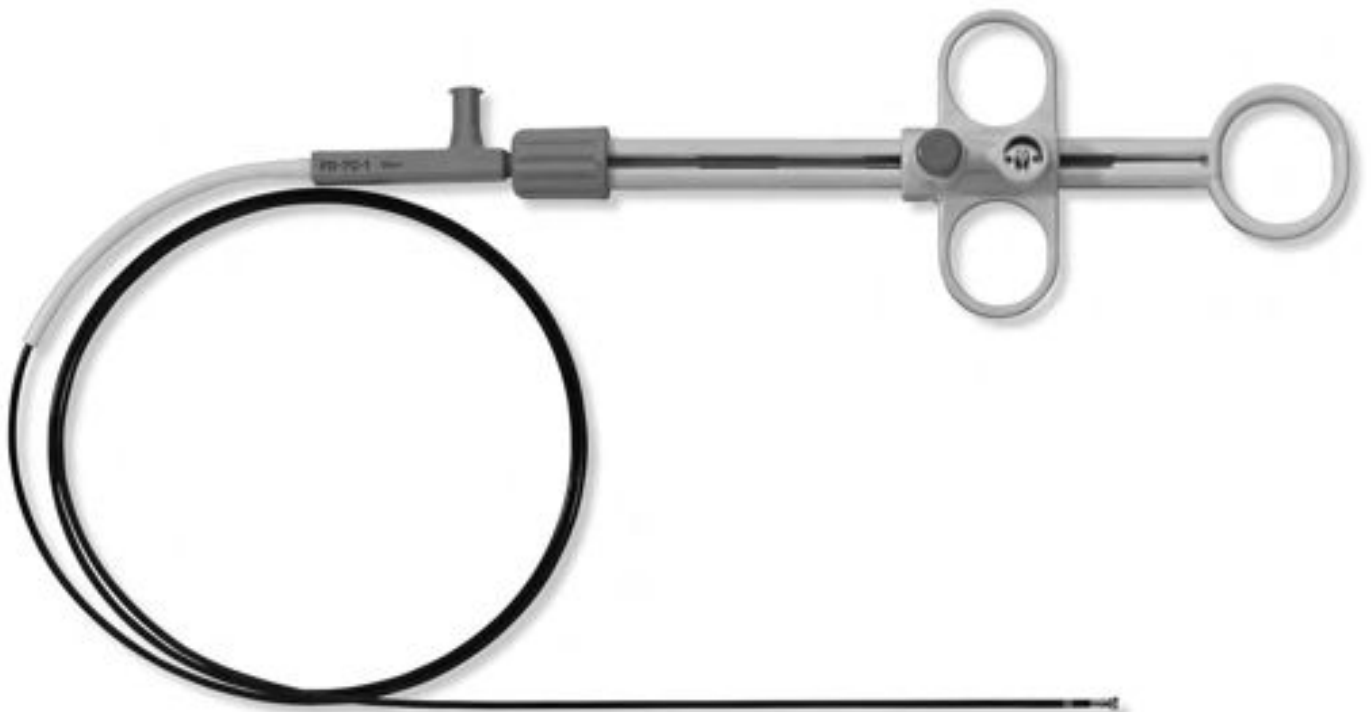


FB-241D Biopsy forceps,
with needle,
1.9 x 1150 mm,
sterile, single use,
20 pcs.



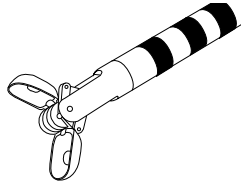
Monopolar Instruments

for ENF-VT2



Hot Biopsy Forceps

Biopsy forceps,
6 Fr. x 1050 mm,
monopolar,
FD-7C-1 A set
FD-7C-1 B set

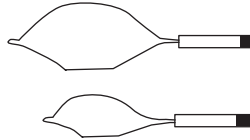


A set includes: Forceps, handle MH-264, HF cable MH-969
B set includes: Forceps

- Oval cups
- Uses HF current to coagulate and cut

Electrosurgical Snares

HF electrode, monopolar,
1.87 mm x 1050 mm,
SD-7C-1 A set, loop 23 mm Ø
SD-7C-1 B set, loop 23 mm Ø
SD-18C-1 A set, loop 13 mm Ø
SD-18C-1 B set, loop 13 mm Ø

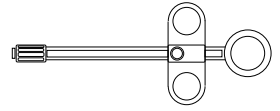


A set includes: 2 snare tubes, 2 snare wires,
handle MH-264, HF cable MH-969
B set includes: 2 snare tubes, 2 snare wires

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

Handle

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



Coagulation Electrode

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

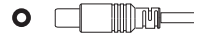


- For haemostasis after biopsy and coagulation of ulcer lesions
- Fixed distal tip
- Green safety marking at distal end of catheter

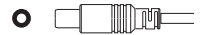
HF Cables for ET Instruments

For SD Handle "MH-264" and HF electrode CD-6C-1.
For details, see sheet ACC-201.

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



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



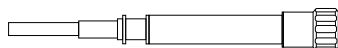
MAJ-861 HF cable, monopolar,
for Erbe T series, Martin,
and Berchtold HF units,
2.07 m length



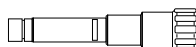
Adapting Olympus Surgical Fiberscopes to Light Sources

These adapters connect all Olympus surgical fiberscopes with integrated light-guide cable (CHF, CYF, ENF, HYF, LF, URF series) to light sources of other manufacturers.

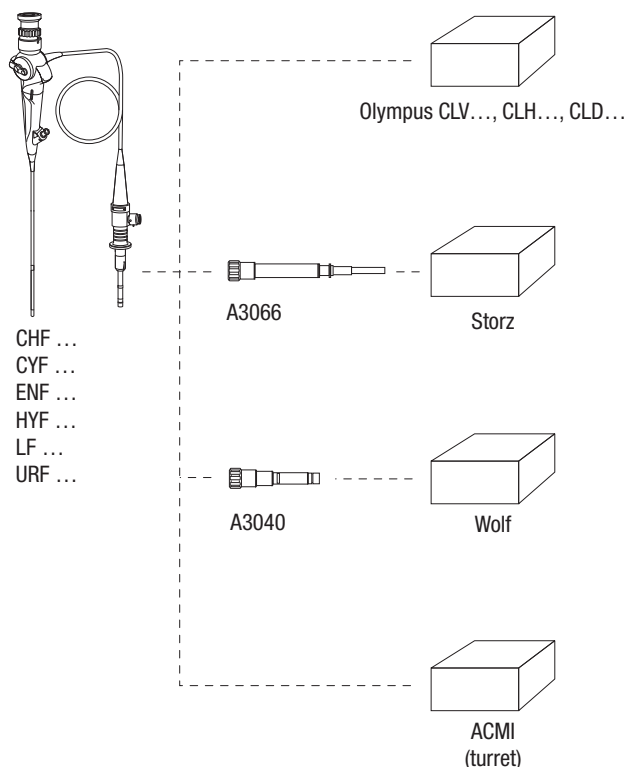
A3066 Light-guide adapter, Olympus fiberscope to Storz light source



A3040 Light-guide adapter, Olympus fiberscope to Wolf light source



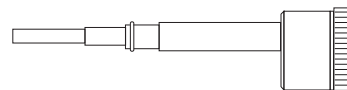
System Chart



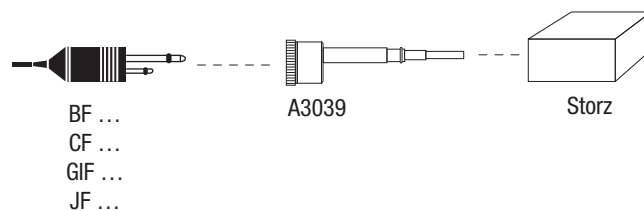
Adapting Olympus Medical Fiberscopes to Light Sources

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, Olympus fiberscope to Storz light source



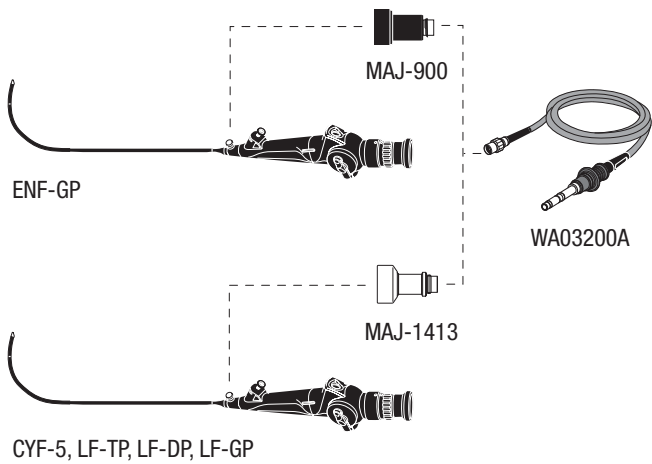
System Chart



**Adapting Olympus OES Pro Light-Guide Cables
to Fiberscopes**

MAJ-900	Light-guide adapter, Olympus OES Pro light-guide cable to ENF-GP	
MAJ-1413	Light-guide adapter, Olympus OES Pro light-guide cable to CYF-5, LF-TP, LF-DP, LF-GP	

System Chart



LARYNGOSCOPES

HD Laryngoscope
Rigid Laryngoscopes ENR-105
ENR-110

SINUSCOPES

TrueView Direct
Sinuscopes ENR-202
ENR-203

System Chart
TrueView Direct.....ENR-204

HD Sinuscopes
4 mm.....ENR-206

TrueView II
2.7 mm Sinuscopes ENR-207

Mini-TrueView
1.9 mm Sinuscopes ENR-210

System Chart
HD Sinuscopes, TrueView II
and Mini-TrueView ENR-212

Gyrus ENT and Explorent
Endoscopes ENR-305

LIGHT-GUIDE CABLES AND ADAPTERS

Light-Guide Cables
OES Pro ENR-400

Light-Guide Adapters
for Light Sources ENR-405

Light-Guide Adapters
for Telescopes ENR-410

HD²

HIGH DEFINITION HIGH DURABILITY



reddot design award
winner 2009



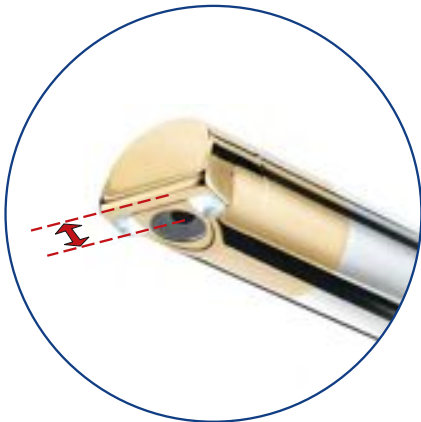
Design
Award
Winner
2009



- ✓ **High Definition**
High image quality – great convenience
The HD laryngoscope offers a unique HD optical system. Contrast and colour reproduction are at the highest level of technology.
Thanks to the large depth of field, no refocusing is required during procedures.



- ✓ **High Durability**
Innovative Design – great durability
Reduce 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 reduced to a minimum.



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

HD Laryngoscope

Rigid Laryngoscopes (cont.)



reddot design award
winner 2009



Design
Award
Winner
2009

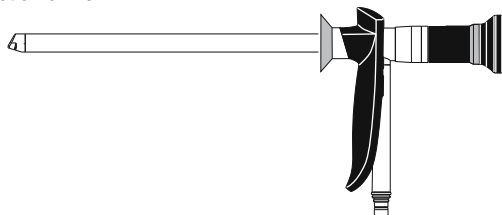


- ✓ High definition, high durability
- ✓ No refocusing required thanks to the high depth of field.
- ✓ Designed for patients' convenience.
- ✓ Detachable handle for easy and complete cleaning
- ✓ Excellent reprocessing compatibility

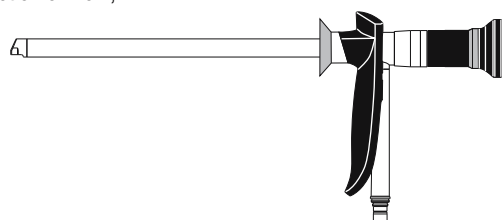
High Definition Laryngoscope

HD laryngoscopes are delivered with a detachable handle.

WA96100A Telescope, HD,
autoclavable,
10 mm,
167 mm working length,
70° direction of view

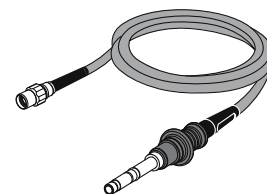


WA96105A Telescope, HD,
autoclavable,
10 mm,
167 mm working length,
90° direction of view,



Accessories

WA03210A Light-guide cable,
size M,
plug type,
3 m,
CF type



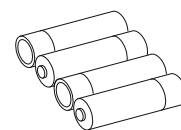
For light-guide adapters, see sheets ENR-400 – ENR-410.

WA91500A Light source “EndoLED”,
for rigid endoscopes

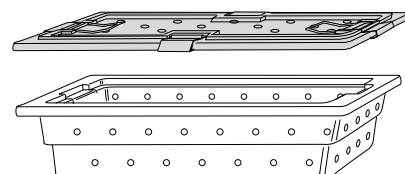


For details, see sheet EQ-370.

200899 4 batteries,
including charger,
AA type



WA05970A Instrument tray,
with lid,
with silicone mat WA05980A,
outer dimensions 537 x 139 x 268 mm



For details, see sheet CDS-345.

OLYMPUS

Your Vision, Our Future

RIGID ENT ENDOSCOPES

TrueView Direct

Sinusscopes

DIGITAL INTEGRATED CAMERA SYSTEM



reddot design award
winner 2005



VISERA

ENR-202

3007



- ✓ **Maximum Ergonomics**
TrueView Direct provides maximum handling comfort. Telescope rotation and manipulation of the camera control buttons can easily be performed with one hand. The other hand remains free for operating hand instruments or energy devices.



- ✓ **All In-Line Connection**
The firm TrueView Direct quick-lock connection between telescope and camera head allows fast O.R. set-up times. The elimination of the external light-guide cable results in an optimized "direct path" of illumination.



- ✓ **Individual Camera Control**
Three freely programmable control buttons, allowing you to program frequently-used functions. Moreover, individual settings (white balance, zoom, VCR control, etc.) can be stored and easily recalled.



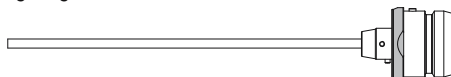
reddot design award
winner 2005



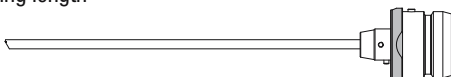
- ✓ One-hand control
- ✓ All In-Line connection
- ✓ Superior optics

4 mm TrueView Direct Telescopes

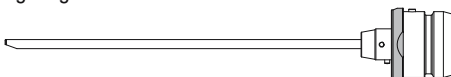
WA70000A Telescope,
autoclavable,
0° direction of view,
115° field of view,
155 mm working length



WA70005A Telescope,
autoclavable,
30° direction of view,
115° field of view,
155 mm working length



WA70010A Telescope,
autoclavable,
70° direction of view,
115° field of view,
155 mm working length



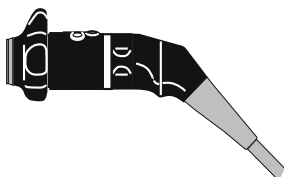
VISERA Pro Video System

OTV-S7Pro VISERA Pro video system



For details, see sheets EQ-115/-116/-117.

OTV-S7H-VA Camera head,
autoclavable



2.7 mm TrueView Direct Telescopes

WA70015A Telescope,
autoclavable,
0° direction of view,
wide angle field of view,
155 mm working length



WA70020A Telescope,
autoclavable,
30° direction of view,
wide angle field of view,
155 mm working length



WA70025A Telescope,
autoclavable,
70° direction of view,
wide angle field of view,
155 mm working length

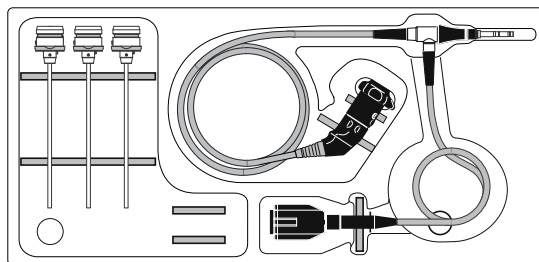


WA70021A Telescope,
autoclavable,
30° direction of view,
wide angle field of view,
106 mm working length



Accessories and Spare Parts

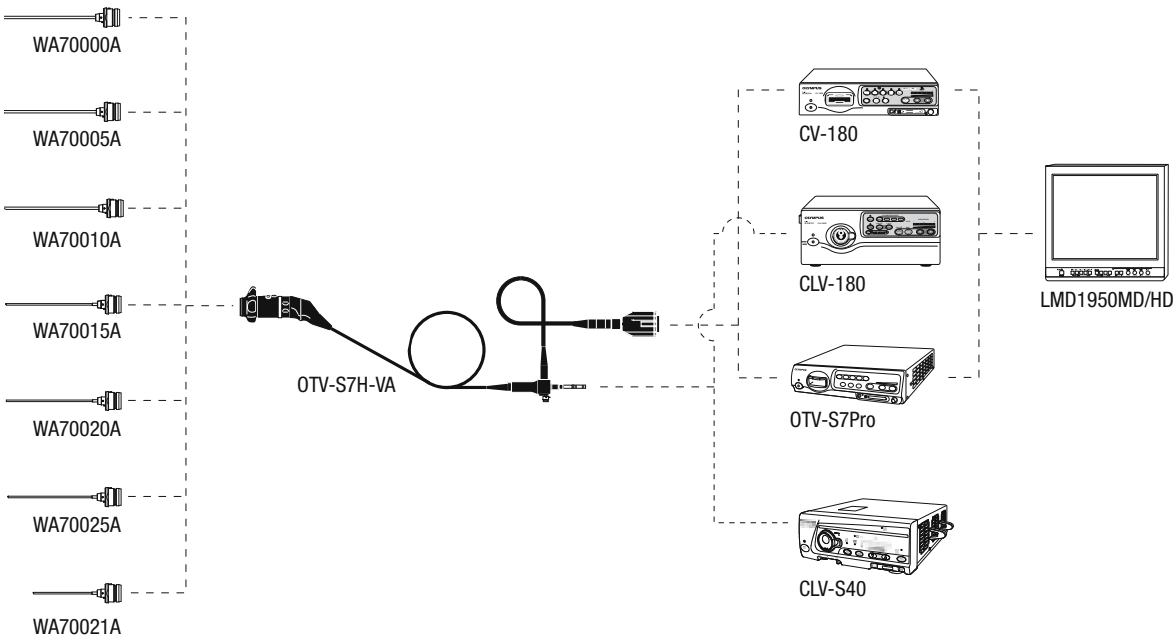
WA05954A Instrument tray



For details, see sheet CDS-345.

System Chart

TrueView Direct





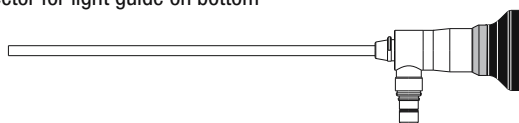
The true colour lens system of the 4 mm HD Sinusscopes allows for definition and clarity of mere structures in the entire endoscopic field. In combination with the durable mechanical design the HD Sinusscopes become something special.

- ✓ Outstanding optical quality thanks to excellent contrast and homogenous 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

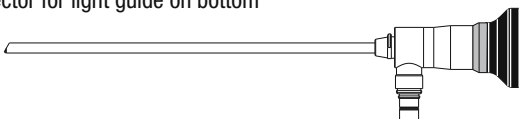


4 mm HD Sinuscopes

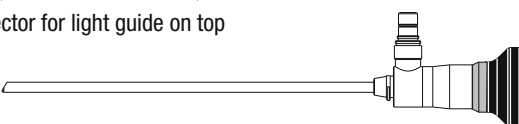
WA96200A Telescope, HD, autoclavable,
4 mm, 0° direction of view,
connector for light guide on bottom



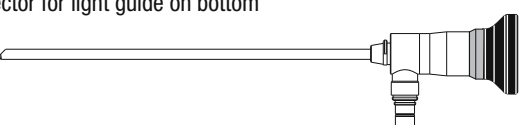
WA96201A Telescope, HD, autoclavable,
4 mm, 30° direction of view,
connector for light guide on bottom



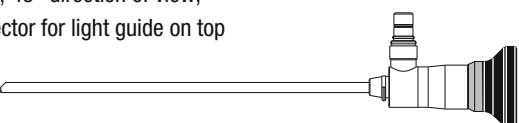
WA96202A Telescope, HD, autoclavable,
4 mm, 30° direction of view,
connector for light guide on top



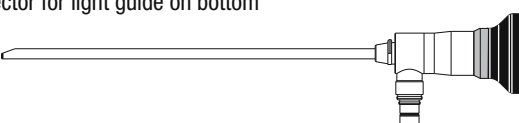
WA96203A Telescope, HD, autoclavable,
4 mm, 45° direction of view,
connector for light guide on bottom



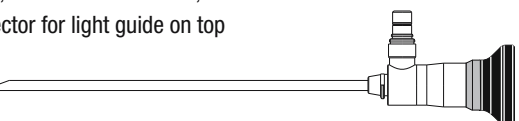
WA96204A Telescope, HD, autoclavable,
4 mm, 45° direction of view,
connector for light guide on top



WA96205A Telescope, HD, autoclavable,
4 mm, 70° direction of view,
connector for light guide on bottom



WA96206A Telescope, HD, autoclavable,
4 mm, 70° direction of view,
connector for light guide on top



Accessories and Spare Parts

WA96208 Handle,
for sinuscope

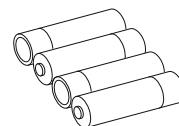


WA91500A Light source "EndoLED",
for rigid endoscopes

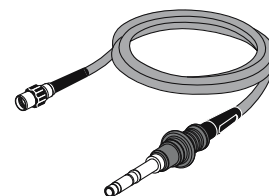


For details, see sheet EQ-370.

200899 4 batteries,
including charger,
AA type



WA03200A Light-guide cable,
size S,
plug type,
3 m



For light-guide adapters,
see sheets ENR-400 – ENR-410.

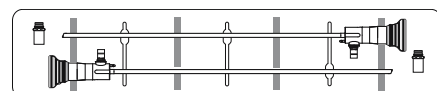
A0460 Light-guide adapter,
for OES 4000 light-guide cables
00332 for Wolf light-guide cables

A0460
00332



Instrument Tray

WA05990A Instrument tray,
for 2 telescopes



For details, see sheet CDS-340.

TrueView II

2.7 mm Sinusscopes



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

2.7 mm TrueView II Telescopes

A70960A Telescope, autoclavable,
2.7 mm, 0° direction of view,
160 mm working length



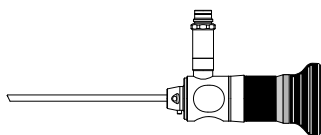
A70961A Telescope, autoclavable,
2.7 mm, 30° direction of view,
160 mm working length



A70962A Telescope, autoclavable,
2.7 mm, 70° direction of view,
160 mm working length



A70963A Telescope, autoclavable,
2.7 mm, 30° direction of view,
70 mm working length



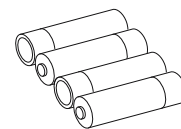
Accessories and Spare Parts

WA91500A Light source “EndoLED”,
for rigid endoscopes

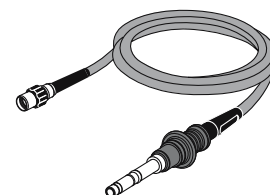
For details, see sheet EQ-370.



200899 4 batteries,
including charger,
AA type



WA03200A Light-guide cable,
size S,
plug type,
3 m

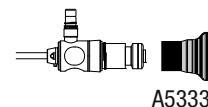


For light-guide adapters,
see sheets ENR-400 – ENR-410.

A0460 Light-guide adapter,
for OES 4000 light-guide cables
00332 for Wolf light-guide cables

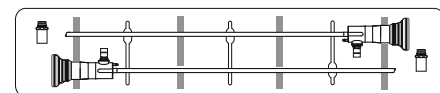


A5333 Eyepiece cup,
for telescopes



Instrument Tray

WA05990A Instrument tray,
for 2 telescopes



For details, see sheet CDS-340.



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 advanced fiber technology. For the physician, the new telescope class means bright images, brilliant color reproduction, high resolution and ergonomic design.

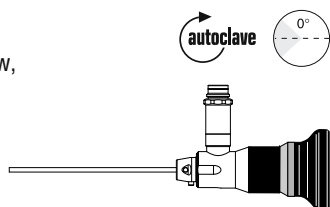
✓ High durability

✓ Fiber technology

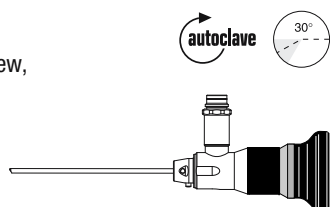


1.9 mm TrueView Telescopes

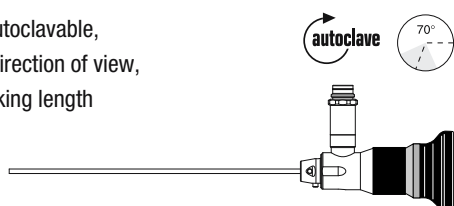
A7504A Telescope, autoclavable,
1.9 mm, 0° direction of view,
65 mm working length



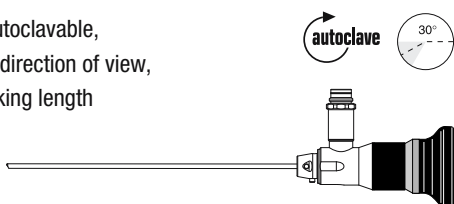
A7505A Telescope, autoclavable,
1.9 mm, 30° direction of view,
65 mm working length



A7506A Telescope, autoclavable,
1.9 mm, 0° direction of view,
115 mm working length



A7507A Telescope, autoclavable,
1.9 mm, 30° direction of view,
115 mm working length



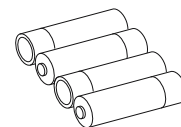
Accessories and Spare Parts

WA91500A Light source “EndoLED”,
for rigid endoscopes

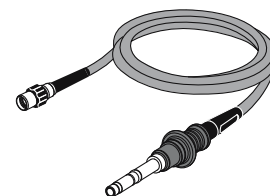
For details, see sheet EQ-370.



200899 4 batteries,
including charger,
AA type

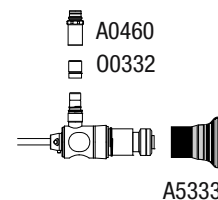


WA03200A Light-guide cable,
size S,
plug type,
3 m



For light-guide adapters,
see sheets ENR-400 – ENR-410.

A0460 Light-guide adapter,
for OES 4000 light-guide cables
00332 for Wolf light-guide cables

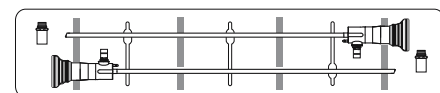


A5333 Eyepiece cup,
for telescopes

A5333

Instrument Tray

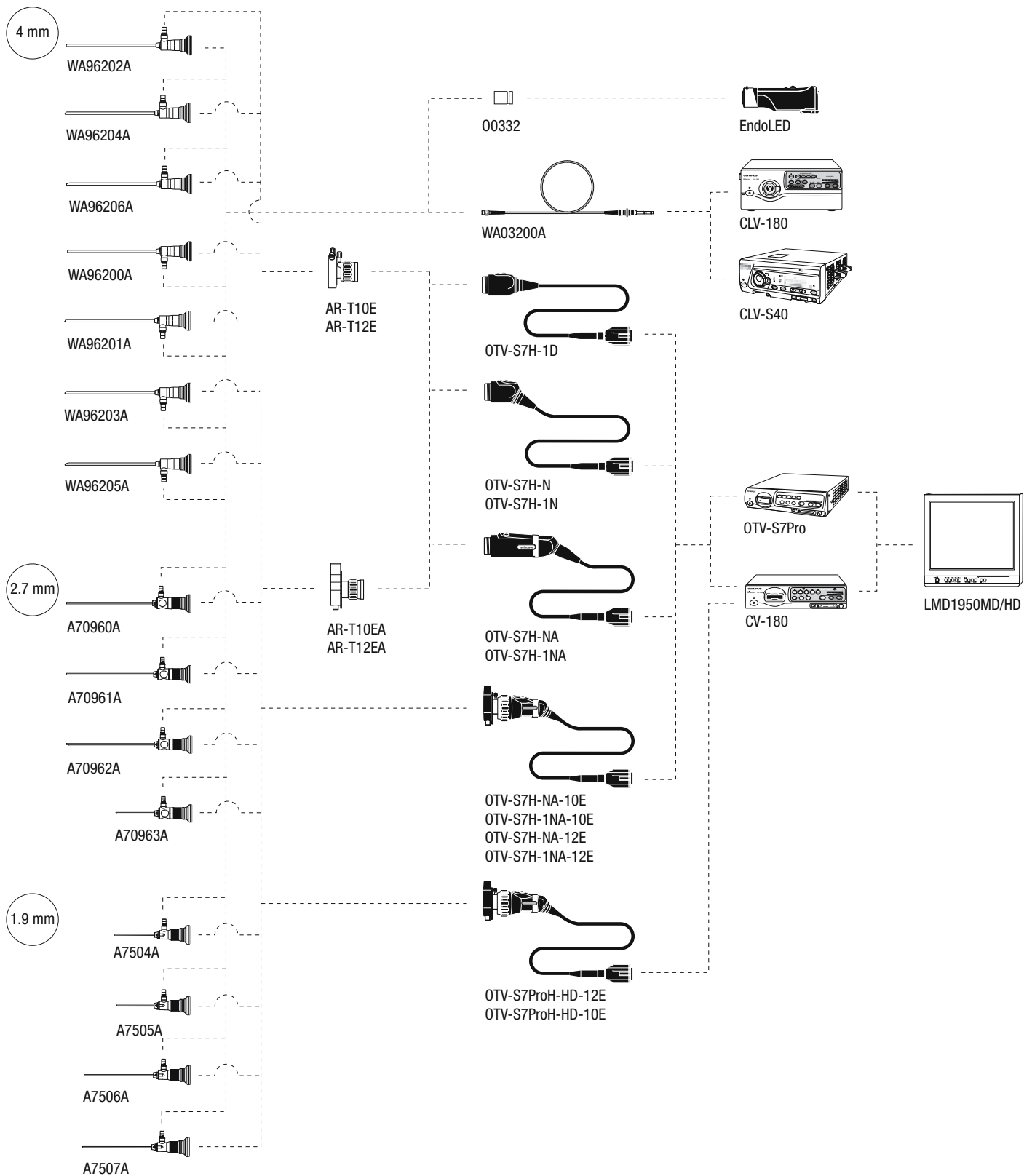
WA05990A Instrument tray,
for 2 telescopes



For details, see sheet CDS-340.

System Chart

HD Sinuscopes, TrueView II
and Mini-TrueView

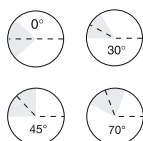


Gyrus ENT and Explorent Endoscopes

Sinusscopes

Telescope,
autoclavable,
stainless steel,
3 x 150 mm,
wide angle,

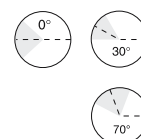
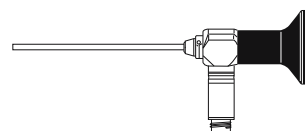
830000	0° direction of view
830030	30° direction of view
830045	45° direction of view
830070	70° direction of view



Oto Endoscopes

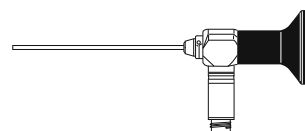
Telescope,
not autoclavable,
2.4 mm,
0° direction of view
30° direction of view
70° direction of view

235210
235211
235212



Telescope,
not autoclavable,
1.7 mm,
0° direction of view
30° direction of view

235200
235201



Light-Guide Cables

OES Pro



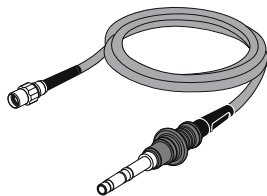
- ✓ High resistance protection tube
- ✓ Reduced diameter with high fiber density
- ✓ Small bending radius for comfortable use
- ✓ Ergonomic design of plugs



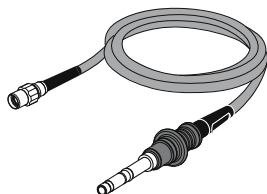
OES Pro Light-Guide Cables

Delivery of all light-guide cables includes
light-guide adapter A3200.
For light-guide adapters, see sheet ENR-405.

WA03200A Light-guide cable,
size S,
plug type,
3 m,
CF type



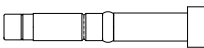
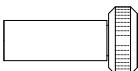
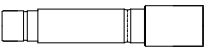
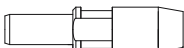
WA03210A Light-guide cable,
size M,
plug type,
3 m,
CF type



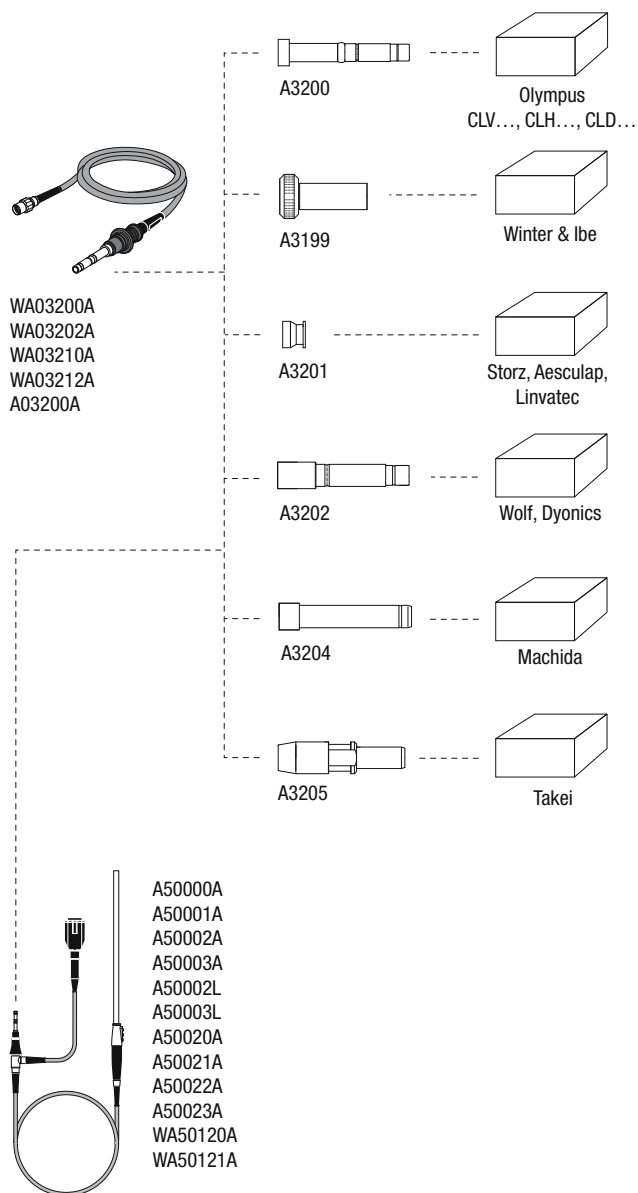
Light-Guide Adapters

for Light Sources

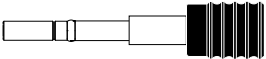
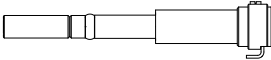
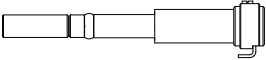
Adapting Olympus OES Pro Light-Guide Cables to Light Sources

A3200	Light-guide adapter, Olympus OES Pro light-guide cable to Olympus light source	
A3199	Light-guide adapter, Olympus OES Pro light-guide cable to Winter & Ibe light source with screw-type connection	
A3201	Light-guide adapter, Olympus OES Pro light-guide cable to Storz, Aesculap, Linvatec light source	
A3202	Light-guide adapter, Olympus OES Pro light-guide cable to Wolf, Dyonics light source	
A3204	Light-guide adapter, Olympus OES Pro light-guide cable to Machida light source	
A3205	Light-guide adapter, Olympus OES Pro light-guide cable to Takei light source	

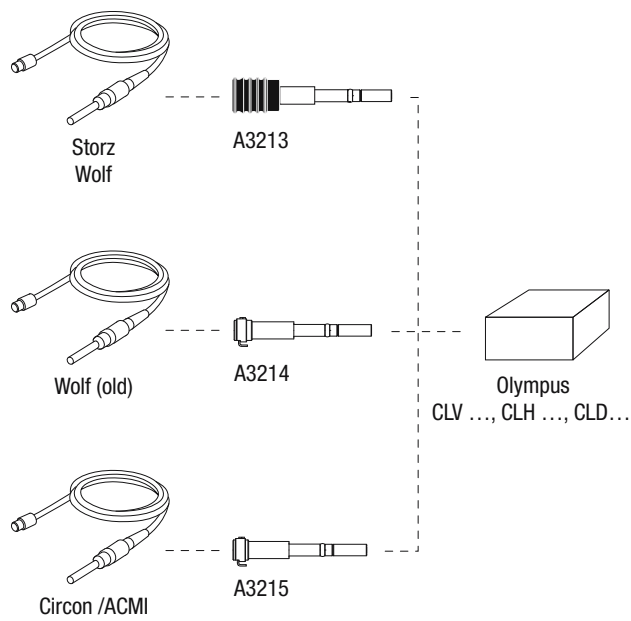
System Chart



Adapting Other Light-Guide Cables to Olympus Light Sources

A3213	Light-guide adapter, Storz and 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



Light-Guide Adapters

for Telescopes

Adapting Olympus OES Pro Light-Guide Cables to Telescopes

WA00331A Light-guide adapter,
Olympus OES Pro light-guide cable
to Storz and Wolf telescope,
screw type (universal)



WA03023A Light-guide adapter,
Olympus OES Pro light-guide cable
to Storz telescope,
screw type, rotatable



Light-guide adapter,
Olympus OES Pro light-guide cable
to Wolf telescope,



WA03021A click type

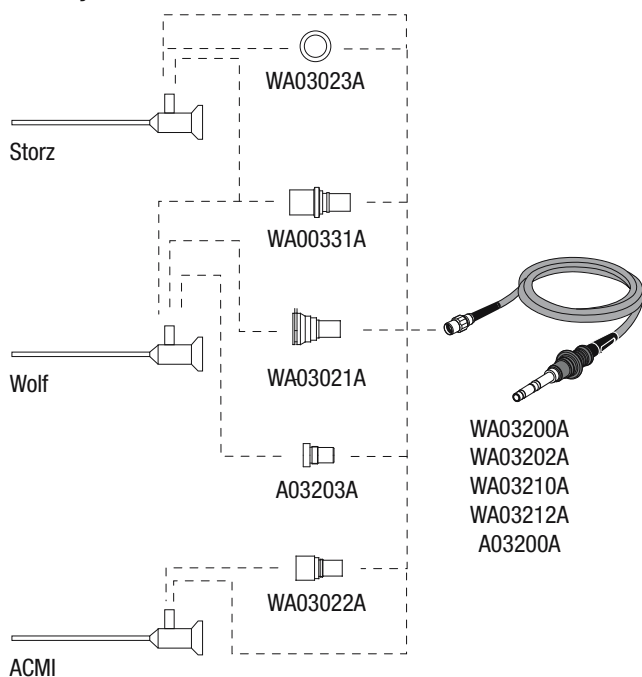
A03203A screw type



WA03022A Light-guide adapter,
Olympus OES Pro light-guide cable
to ACMI telescope,
click type



System Chart



Adapting Olympus OES 4000 Light-Guide Cables to Telescopes

A0331 Light-guide adapter,
Olympus OES 4000 light-guide cable
to Storz and Wolf telescope,
screw type



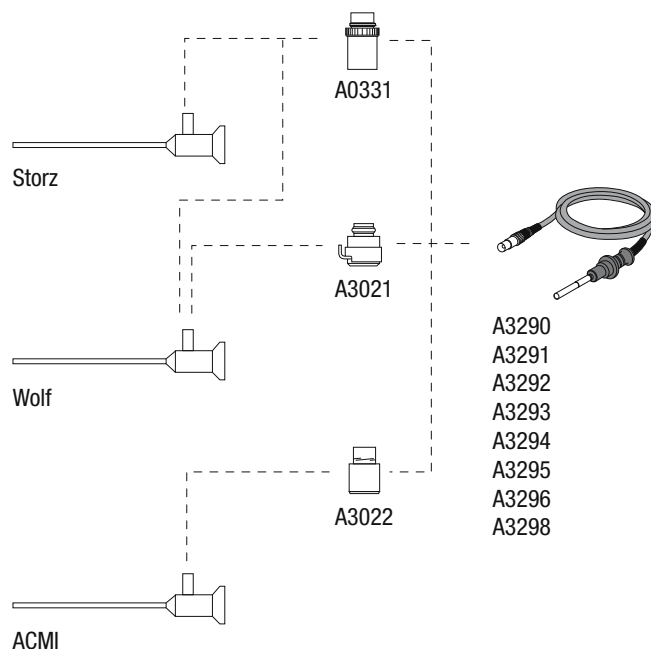
A3021 Light-guide adapter,
Olympus OES 4000 light-guide cable
to Wolf telescope,
click type



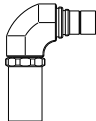
A3022 Light-guide adapter,
Olympus OES 4000 light-guide cable
to ACMI telescope,
click type



System Chart



Adapting Light-Guide Cables to Olympus Telescopes

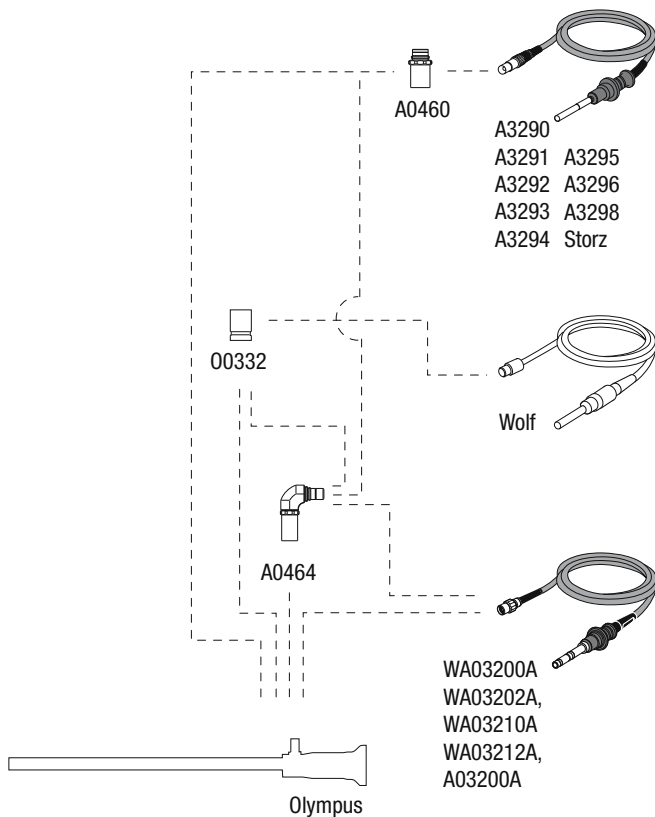
A0464	Light-guide adapter, 90° angulation Olympus OES Pro light-guide cable to Olympus telescope	
A0460	Light-guide adapter, OES 4000 Olympus light-guide cable to Olympus telescope	
00332	Light-guide adapter, Wolf light-guide cable to Olympus telescope	

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



Contents

PK DIEGO®

PK diego® Technology
Powered Dissector System.....EQE-015
EQE-020

diego® Blades and Burrs EQE-030

Viper® Otology Drill System.....EQE-040
EQE-045

PK TECHNOLOGY®

PK Technology®.....EQE-205

PlasmaCision® EQE-220

SOMNOPLASTY®

TCRF Somnoplasty®.....EQE-230

diego®
SYSTEM



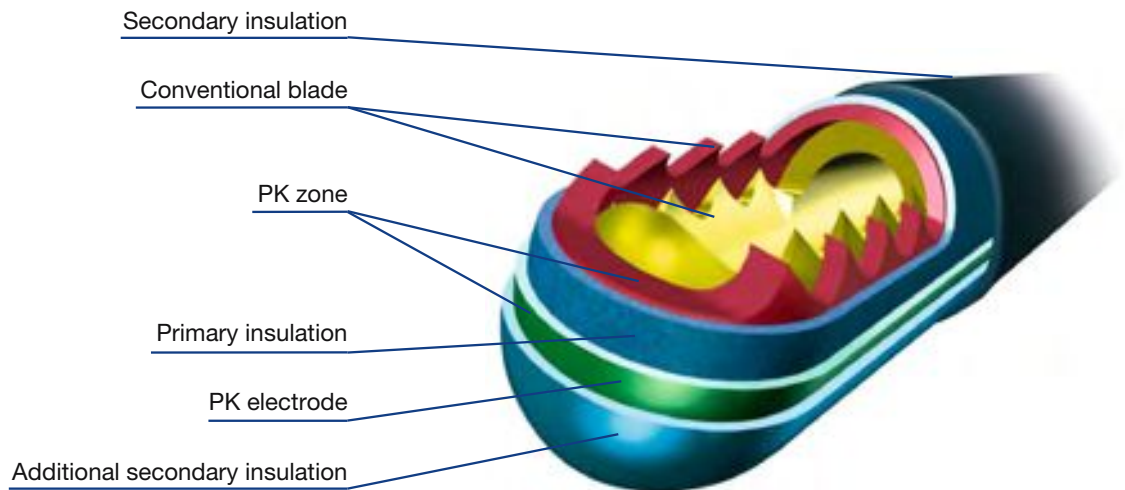


Better Bipolar Energy – How PK® Does It

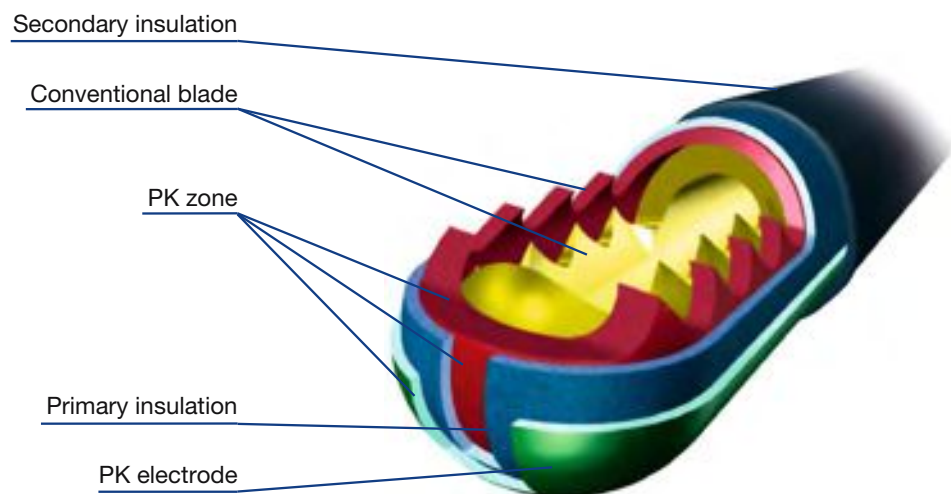
No other platform today combines superior dissection, ergonomic comfort and bipolar hemostasis like PK diego®. In one device, you get a versatile, complete system that saves time. It's the ultimate tool for ENTs – because it was designed with the help of ENTs.

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

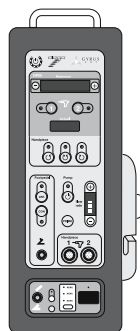




- ✓ PK diego® combines the award-winning diego powered mechanical dissection platform and PK Technology®.
- ✓ PK diego® blades allow the surgeon the option to control ordinary bleeding either while dissecting, or discretely.
- ✓ PK diego® blades create a gentle hemostatic effect with minimal thermal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

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)

Technical Data

Power supply

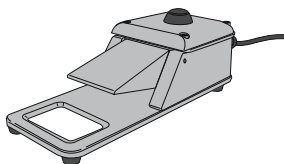
Voltage.....100–120/220–240 V ~

Frequency.....50/60 Hz

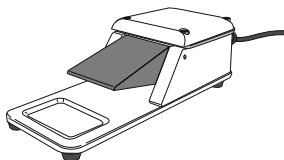
Input current.....2 A

Footswitches

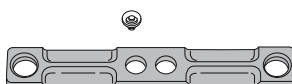
70338011 Footswitch,
for diego console,
illuminated,
green light



70339054 Footswitch,
for PK diego® console,
includes coupler 70339053

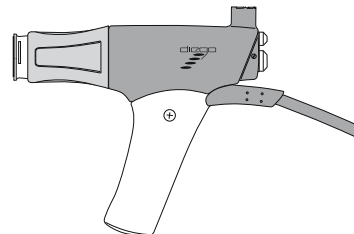


70339053 Coupler,
connects diego® and PK diego® footswitch

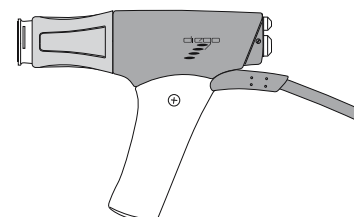


diego Dissector System Handpieces

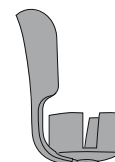
70338010 Handpiece “diego® Starlink®”,
compatible with Brainlab Starlink®,
and universal IGS adapters 70338012/-8013



70339001 Handpiece “diego®”,
enabled for finger control of handpiece



70338008 diego® “Trigger”,
for finger control of handpiece,
sterile, single use,
6 pcs.



Technical Data

Speed

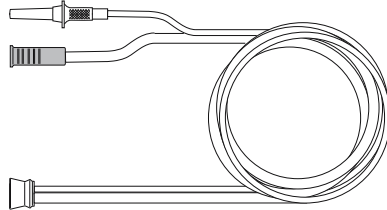
Oscillation.....5,000 min⁻¹

Forward and reverse.....15,000 min⁻¹

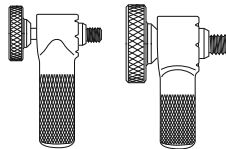
Power.....High/Medium/Low

Accessories for diego® Handpieces

- 70338003 Tube set,
integrated suction and irrigation lines,
includes cleaning stylets,
6 pcs.



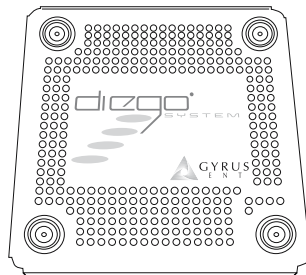
- 70338012 Adapter,
for use with IGS clamping systems,
small
70338013 large



- 70338009 Cleaning brush, set,
for diego® handpiece,
includes 1 large and 1 small brush,
6 pcs.

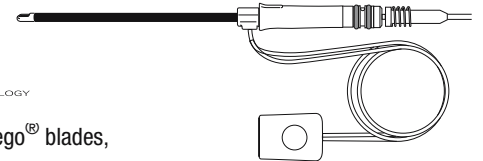


- 70338005 Instrument tray,
for diego® handpieces



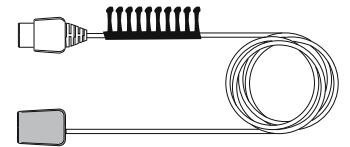
PK diego® Blades

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 sheets EQE-030/-035.

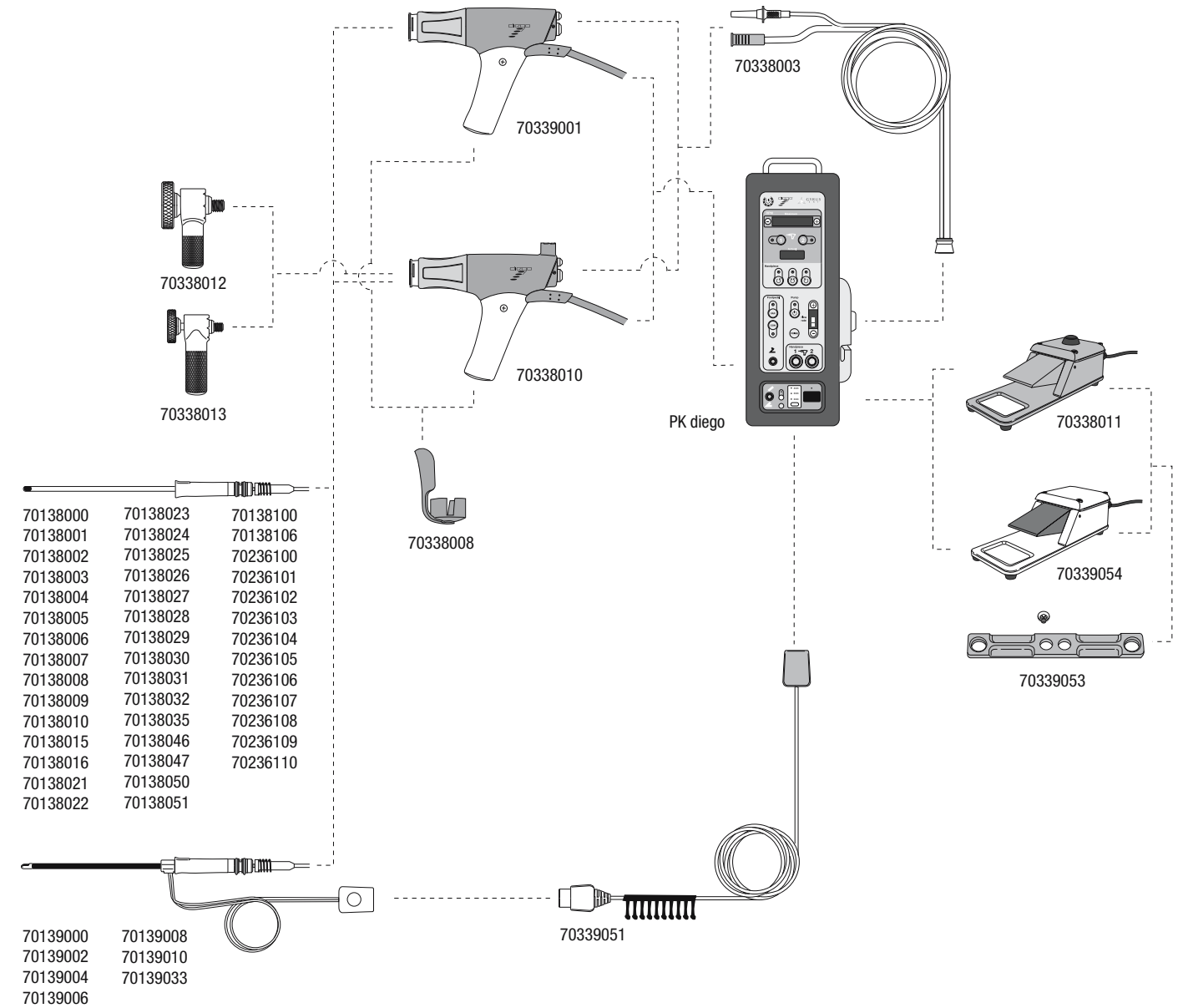
- 70339051 Cable,
for PK® blades,
with tube organizer,
reusable,
tested for 50 uses



diego® Blades



For diego blades, see sheets EQE-030/-035.



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, 6 pcs., 4.0 mm



70139033 Blade, straight, aggressive, SMR, 6 pcs., hemostatic with PK®, 3.0 mm



PK® TECHNOLOGY

Serrated Blades (Straight)

Blade, straight, serrated, 6 pcs.,

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



Blade, straight, serrated, 6 pcs., hemostatic with PK®,

70139000 4.2 mm
70139002 4.8 mm



PK® TECHNOLOGY

Smooth Blades (Straight)

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



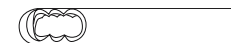
70138003 Blade, straight, smooth, square tip, 6 pcs., 4.0 mm



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, 6 pcs., 2.0 mm



70138034 Blade, straight, smooth elongated, 6 pcs., 2.0 mm



70139033 Blade, straight, aggressive, SMR, 6 pcs., hemostatic with PK®, 3.0 mm



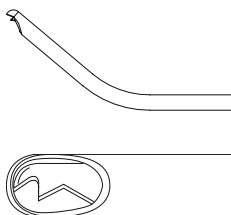
PK® TECHNOLOGY

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.

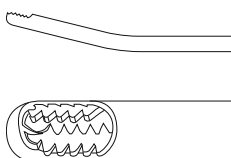
Curved Aggressive Blades

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



15° Curved Blades

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

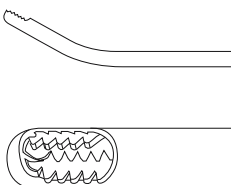


70139004 Blade, curved, angled 15°, serrated, 6 pcs., hemostatic with PK®, 4.8 mm, concave window
 70139010 4.8 mm, convex window



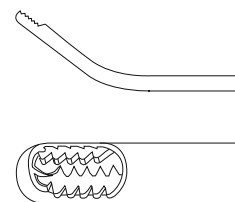
30° Curved Blades

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

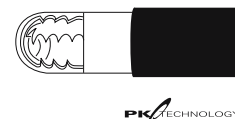


40° Curved Blades

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

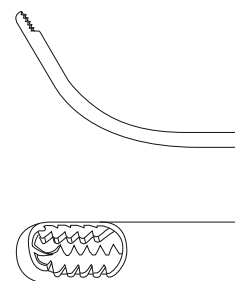


Blade, curved, angled 40°, serrated, 6 pcs., hemostatic with PK®,
 70139008 4.8 mm, concave window
 70139006 4.8 mm, convex window



60° Curved Blades

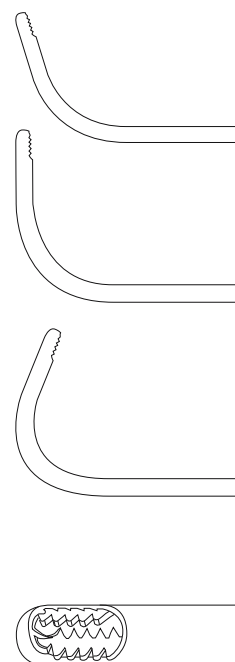
Blade, curved, angled 60°, serrated, 6 pcs.,
 70138009 4.0 mm, concave window
 70138031 2.9 mm, concave window



75°, 90°, 110° Curved Blades

Ideal for use in maxillary or frontal sinus procedures

Blade, curved, serrated, 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



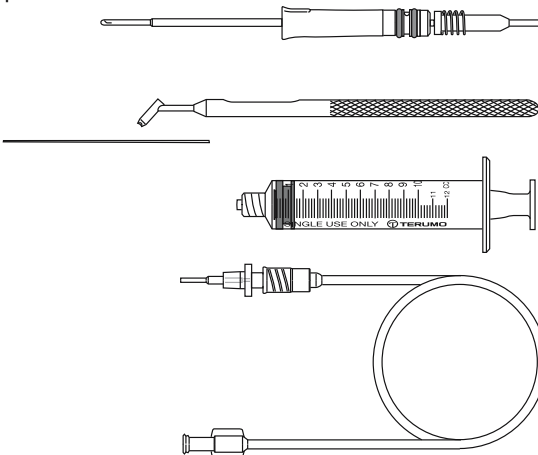
diego® System

Burrs, Nasopharyngeal and
Laryngeal Application Blades

Burrs

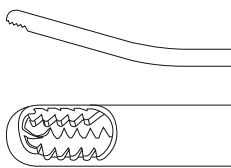
70236100	Burr, diamond, bullet, suction, irrigating, 3 mm bit diameter, 3 pcs., straight	
70236103	15° shaft angle	
70236104	40° shaft angle	
70236105	70° shaft angle	
70236101	Burr, fluted, barrel, suction, irrigating, 4.2 mm bit diameter, 3 pcs., straight	
70236106	15° shaft angle	
70236107	60° shaft angle	
70236102	Burr, diamond, ball, suction, irrigating, 4.5 mm bit diameter, 3 pcs., straight	
70236108	15° shaft angle	
70236109	Burr, diamond, taper, suction, irrigating, 4 mm bit diameter, 3 pcs., 15° shaft angle	
70236110	70° shaft angle	
70138011	Burr, shielded, cutting, medium grit, 3 mm bit diameter, straight, cutting barrel, shielded	
70138013	straight, diamond barrel, shielded	
70138018	Burr, DCR, cutting, medium grit, 3 mm bit diameter, convex side shielded, 18° shaft angle, concave cutting	
70138049	18° shaft angle, concave medium diamond	

Frontal Trephination

70138017	Frontal trephination set, 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

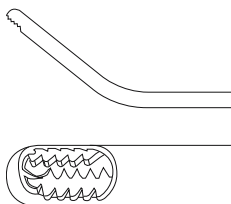
70138010 Blade, curved,
15° shaft angle,
tonsil, serrated,
convex window,
4 mm, 6 pcs.



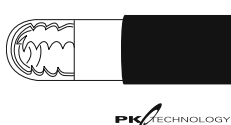
70139010 Blade, curved,
tonsil, serrated,
hemostatic with PK[®],
4.8 mm, convex window,
15° shaft angle, 6 pcs.



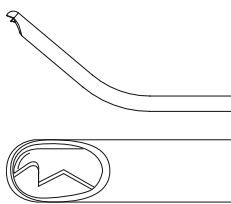
70138006 Blade, curved,
40° shaft angle,
tonsil, adenoid, serrated,
convex window,
4 mm, 6 pcs.



70139006 Blade, curved,
tonsil and adenoid, serrated,
hemostatic with PK[®],
4.8 mm, convex window,
40° shaft angle, 6 pcs.



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



Laryngeal Debulking Blades

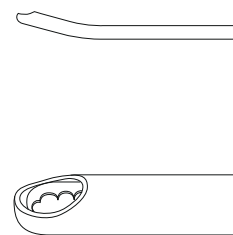
Blade, double bend,
18° distal angle,
serrated, debulking, 3 pcs.,
subglottic,
4.0 mm, concave window,

70138015

220 mm

70138023

270 mm



Blade, double bend,
18° distal angle,
serrated, debulking, 3 pcs.,
supraglottic,
3.2 mm, swagged tip, convex window,

70138021

220 mm

70138025

270 mm



Laryngeal Superficial Blades

Blade, double bend,
18° distal angle,
smooth, superficial, 3 pcs.,
supraglottic, 220 mm,
4.0 mm, convex window

70138016

2.9 mm, convex window

70138050

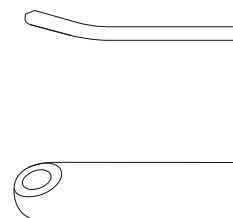
Blade, double bend,
18° distal angle,
smooth, superficial, 3 pcs.,
subglottic, 270 mm,

70138024

4.0 mm, convex window

70138051

2.9 mm, convex window



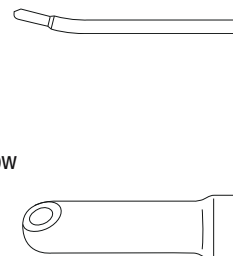
Blade, double bend,
18° distal angle,
smooth, superficial, 3 pcs.,
supraglottic,
3.2 mm, swagged tip, convex window

70138022

220 mm

70138026

270 mm



Viper® Otology Drill System

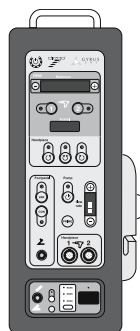


The Viper® Drill System knows how to put success at your fingertips. The configuration of handpieces and consoles gives you a drill for every otologic procedure, from the most delicate to the most demanding.

- ✓ The ergonomic, balanced Viper® drill mastoid handpieces help you perform quick mastoid resection.
- ✓ The exquisite, yet powerful, micro drill supports the full cadre 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, 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 readily identify it during surgery.
- ✓ With diego®, Viper®, and Stapes handpieces...the diego® ENT workstation provides you the total powered dissection option.

PK diego® System Console

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



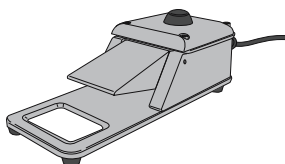
Delivery includes:
Console, power cable (type B, NEMA 5-15, for the USA)

Technical Data

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

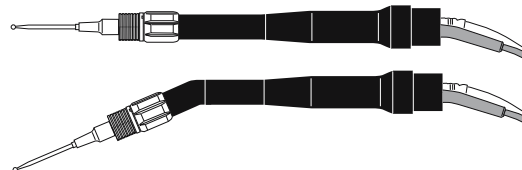
Footswitch

70338011 Footswitch,
for diego® console



Otology Drill Handpieces

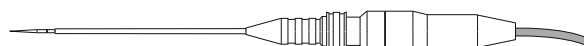
Viper® handpiece,
for diego® console,
70338030 straight
70338031 angled



Technical Data

Motor
Maximum Speed 44,000 min⁻¹
Weight
70338031 124.74 g (4.4 oz.)
70338030 107.73 g (3.8 oz.)

70338032 Stapes handpiece,
for diego® console



Technical Data

Motor
Maximum Speed 12,000 min⁻¹
Weight 77 g (2.7 oz.)

Irrigation

70336900 Viper full replacement tube set
70921605 Irrigation tubing,
replacement
70338007 Pump tubing “Viper®”,
with irrigation spike,
6 pcs.

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

Accessories for Stapes Drill Burrs

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



- ✓ PK Technology® is the creative delivery of radio frequency energy to enable superior surgical results across several platforms.
- ✓ PK Technology® achieves a wide range of tissue effects; tissue division, coagulation, lesioning, hemostasis of blood vessels.
- ✓ PK Technology® transforms surgical techniques by making RF energy more intuitive and simple to use, while broadening the tissue effects available from a single technology source and improving surgical standards of care through less invasive methods.



Procedural Versatility



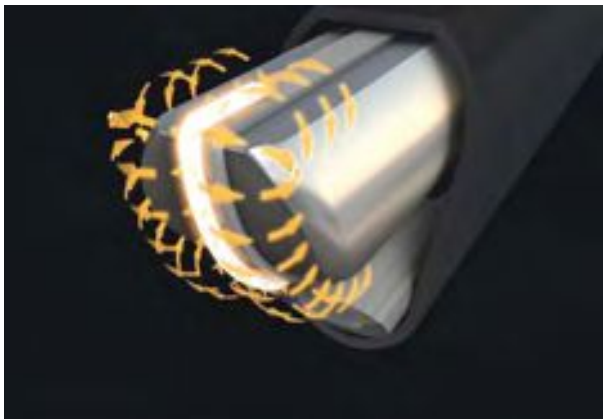
TCRF

- Turbinate volumetric reduction
- Soft palate volumetric reduction
- Tonsil volumetric reduction
- Tongue base volumetric reduction



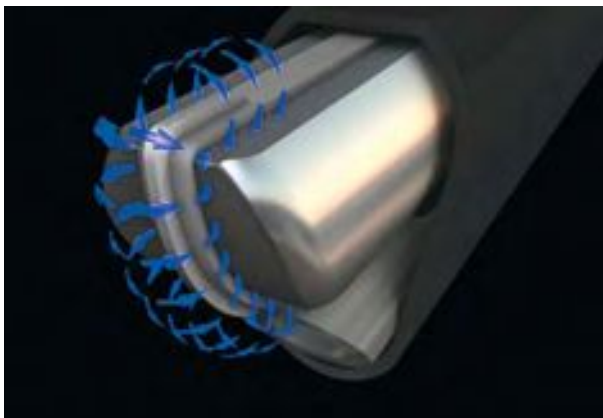
PlasmaCision®

- Tonsillectomy
- Adenoidectomy
- Parotidectomy
- Modified and radical neck dissection
- Uvulectomy, UPPP



PlasmaCision® Cut Phase

Current passes locally from central active pole to two lateral return poles. Tissue between the return poles is dissociated and divided. The low thermal mass contributes to the minimized collateral tissue damage.



PlasmaCision® Coag Phase

The central pole becomes dormant as current flows between two lateral poles. The coag waveform provides a larger current field for effective desiccation and hemostasis of blood vessels.



PlasmaKnife tips deliver narrower thermal margins, up to 2x smaller than competing technologies*.

Plug into a new world of surgical options with the universal PlasmaCision® (UPC) reusable handpiece and its eco-friendly line of disposable tips. PlasmaCision is an expression of PK Technology®. It is an advanced RF surgical technology that cuts and coagulates precisely, cleanly, hemostatically and safely. using a proprietary bipolar RF output and a unique PlasmaKnife instrument design, PlasmaCision gently divides tissue with selectable thermal margin control, providing the conditions needed for less pain and quicker healing.

*data on file

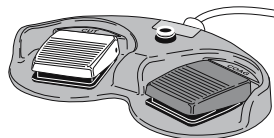
G3 WorkStation

7035-3001 Generator "G3 WorkStation"



TCRF technology for the Somnoplasty® procedures.
Accepts TCRF handpieces, cables, and return electrodes.
Specify power cable (see below).

7035-3002 Footswitch, for G3 WorkStation



720-1009-01 Power cable (not shown), type B (NEMA 5-15), for USA

Technical Data

Power supply

Voltage 90–264 V ~

Frequency 50/60 Hz

Input current 2 A

Size (Generator)

Dimensions 416 (W) x 134 (H) x 413 (D) mm

Weight 8 kg

Classification

Protection against electric shock class 1, type BF

Output

Output power.....two channels, 0–15 W

Target temperature 65–85 °C

Frequency.....444 kHz (±5 %)

PlasmaCision® Universal Handpiece

70353007 Handpiece, universal, for G3 WorkStation, with instrument tray, reusable



PlasmaKnife™ Dissectors

70353100 TA² tip, malleable, 10 cm, for handpiece 70353007, sterile, single use, 6 pcs.



70353107 TA² tip, 7 cm, for handpiece 70353007, sterile, single use, 6 pcs.



70353112 PC12 tip, 7 cm, for handpiece 70353007, sterile, single use, 6 pcs.



70353115 PC15 tip, for handpiece 70353007, sterile, single use, 4 pcs.



70353005 Dissector PlasmaKnife™, for G3 WorkStation, sterile, single use, 4 pcs.



70353006 jPlasmaKnife™, for G3 WorkStation, sterile, single use, 5 pcs.



TCRF Somnoplasty®

Temperature Controlled Radio Frequency



Somnoplasty's radio frequency (RF) energy is a minimally invasive surgical technology that uses a controlled radio frequency current to reduce tissue volume in a precise and controlled manner. Somnoplasty®'s RF energy uses a low power level and a low voltage to generate low tissue temperatures, in order to create the largest predictable lesions that produce the most effective controlled outcomes.

- ✓ Controlling Energy - Controlling outcomes:
Somnoplasty®'s energy uses low power level and low voltage to generate low tissue temperatures. This technique creates lesions with minimal impact on surrounding tissues, making it appropriate for delicate areas.
- ✓ Minimally Invasive:
Enhances patient comfort and outcomes.

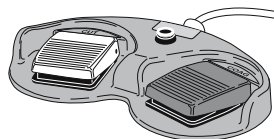
G3 WorkStation

7035-3001 Generator "G3 WorkStation"



TCRF technology for the Somnoplasty® procedures.
Accepts TCRF handpieces, cables, and return electrodes.
Specify power cable (see below).

7035-3002 Footswitch, for G3 WorkStation



Power cable (not shown),
720-1009-01 type B (NEMA 5-15), for USA

Technical Data

Power supply

Voltage 90–264 V ~
Frequency 50/60 Hz
Input current 2 A

Size (Generator)

Dimensions 416 (W) x 134 (H) x 413 (D) mm
Weight 8 kg

Classification

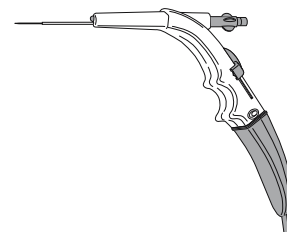
Protection against electric shock class 1, type BF

Output

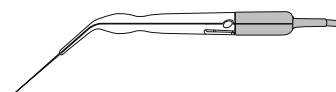
Output power.....two channels, 0–15 W
Target temperature 65–85 °C
Frequency.....444 kHz (±5 %)

TCRF Handpieces

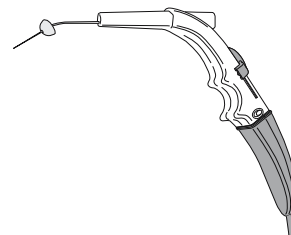
1010-2110-05 TCRF handpiece, palate, for G3 WorkStation, sterile, single use, 5 pcs.



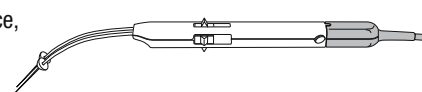
1120-4110-05 TCRF handpiece, turbinate, for G3 WorkStation, sterile, single use, 5 pcs.



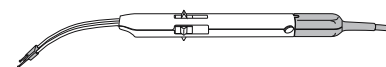
1200-2110-05 TCRF handpiece, tongue base, single channel, for G3 WorkStation, sterile, single use, 5 pcs.



2220-2210-05 TCRF handpiece, tongue base, dual channel, for G3 WorkStation, sterile, single use, 5 pcs.



2420-1328-05 TCRF handpiece, tonsil, not recommended for patients under 13, for G3 WorkStation, sterile, single use, 5 pcs.



TCRF Accessories

7201001 Return electrode (not shown), for TCRF handpieces, 5 pcs.

7201010 Bending tool (not shown), for needle sleeve, 1 pc.
for handpieces 1010211005, 1200211005

7201013 Cable "RC2" (not shown), for handpieces 1010211005, 1200211005, reusable (20 reuses)

7201017 Cable "RC20" (not shown), for handpieces 1120411005, EG2220221005, EG2420132805, reusable (20 reuses)

EXPLORENT SURGICAL INSTRUMENTS

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Posterior Fossa Set	OTO-555

Tuning Forks



138000-
138005



138301

138000	HARTMANN Tuning Fork from nickel-plated steel, C = 128 H
138001	same, C 1 = 256 H
138002	same, C 2 = 512 H
138003	same, C 3 = 1024 H
138004	same, C 4 = 2048 H
138005	same, C 5 = 4096 H

138301	Tuning Fork from nickel-plated steel, with foot, a 1 = 440 H



138500



139000



139100



139200

- 138500 HARTMANN Tuning Fork Set,**
including 5 steel tuning forks,
model c 128, c¹ 256, c² 512,
c³ 1024 and c⁴ 2048, in case
- 139000 BARANY Noise Apparatus, with olive tip**
- 139100 Tip only for 139000**
- 139200 Rubber only for 139000**

Flexible Tension Arm



218800



218801



218802



218803

- 218800** Flexible Tension Arm complete with holding rod for attachment to operating table
- 218801** Rotation Clamp for flexible Tension Arm 218800, attachable to operating table
- 218802** Ear Speculum Clamp, fitting for our complete line of Ear Specula
- 218803** Telescope Clamp, fitting to Ear-Telescopes 816100-827070

Ear Specula



118000 -
118004



118108-118109
118101-118102



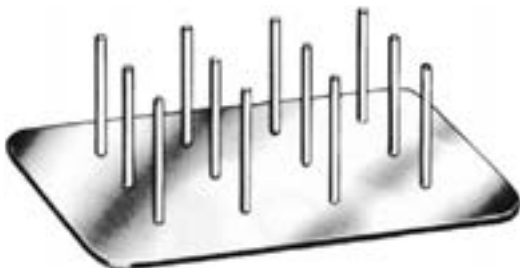
118201-118203



118301-118304



118505-118507



118612

118000 HARTMANN Ear Speculum, 3.6 cm, stainless steel, matt finish, size 0

118001 same, size 1

118002 same, size 2

118003 same, size 3

118004 same, size 4

size	①	②	③	④	
I.D. mm	1.8	3.2	4.0	5.3	6.5
O.D. mm	3.0	4.0	5.0	6.0	7.5

118101-118102

HARTMANN Ear Speculum, for post-operative check-up, dull inner finish and bright chrome plated outside, round

118101 size 1 = 8.0 mm I.D.

118102 size 2 = 9.0 mm I.D.

118108-118109

same, but black finish inside and outside

118108 size 1 = 8.0 mm I.D.

118109 size 2 = 9.0 mm I.D.

118201-118203

POLITZER Ear Speculum, short, infant type, 2.7 cm, dull inner finish and bright chrome plated outside, round

118201 size 1 = 2.0 mm I.D.

118202 size 2 = 3.0 mm I.D.

118203 size 3 = 4.0 mm I.D.

118301-118304

HARTMANN Ear Speculum, round, black finish inside and outside

118301 size 1 = 3.0 mm I.D.

118302 size 2 = 4.0 mm I.D.

118303 size 3 = 5.0 mm I.D.

118304 size 4 = 7.0 mm I.D.

118505-118507

HOLMGREN self retaining Ear Speculum, with slotted blades to prevent slipping when engaged in the ear canal, black finish

118505 size 1 = 5.0 mm O.D.

118506 size 2 = 6.0 mm O.D.

118507 size 3 = 7.0 mm O.D.

118612 Metal Support for 12 Ear Specula



119000



120600

- 119000** BRUENINGS Anastigmatic Aural Magnifier, complete in wooden case consisting of:
each of 1 Ear Speculum size 0 (119610), size 1 (119601), size 2 (119602), size 3 (119603), 1 Magnifier Head closed (119800), 1 Rubber Bulb (119300)
- 120600** same, consisting of:
each of 1 Ear Speculum size 00, 0, 1, 2, 3 and 4 (119620, 119610, 119601, 119602, 119603 and 119604), 1 Magnifier Head (119800), 1 Magnifier Head (119900) and 1 Rubber Bulb (119300)
- 119300** BUENINGS Rubber Bulb



119300



119700
119800



119601-119620

- 119700** BRUENINGS Magnifier Head, pneumatic, closed
- 119800** BUENINGS Magnifier Head, anastigmatic, 2.5 x
- 119620** BRUENINGS Ear Speculum, size 00
- 119610** same, size 0
- 119601** same, size 1
- 119602** same, size 2
- 119603** same, size 3
- 119604** same, size 4

size	00	0	1	2	3	4
I.D. mm	2.5	3.0	4.0	5.0	6.5	8.5
O.D. mm	4.0	4.8	6.0	7.0	8.5	10.5

Ear Specula

(cont.)



216001 - 216007
216011 - 216017 black



216201 - 216207
216211 - 216217 black



216401 - 216407
216411 - 216417 black

216001-216007
FARRIOR Ear Speculum, stainless steel,
special dull polish, round, regular end,
size 1-7 (sizes for inside diameter)

216011-216017
same, black finish, size 1-7

216001/216011	Fig. 1 = 4.5 mm
216002/216012	Fig. 2 = 5.5 mm
216003/216013	Fig. 3 = 6.5 mm
216004/216014	Fig. 4 = 7.5 mm
216005/216015	Fig. 5 = 8.5 mm
216006/216016	Fig. 6 = 9.5 mm
216007/216017	Fig. 7 = 10.0 mm

216401-216407
FARRIOR Ear Speculum oval, 35° oblique end,
size 1-7, otherwise same as 216001-216007

216411-216417
same, black finish, size 1-7

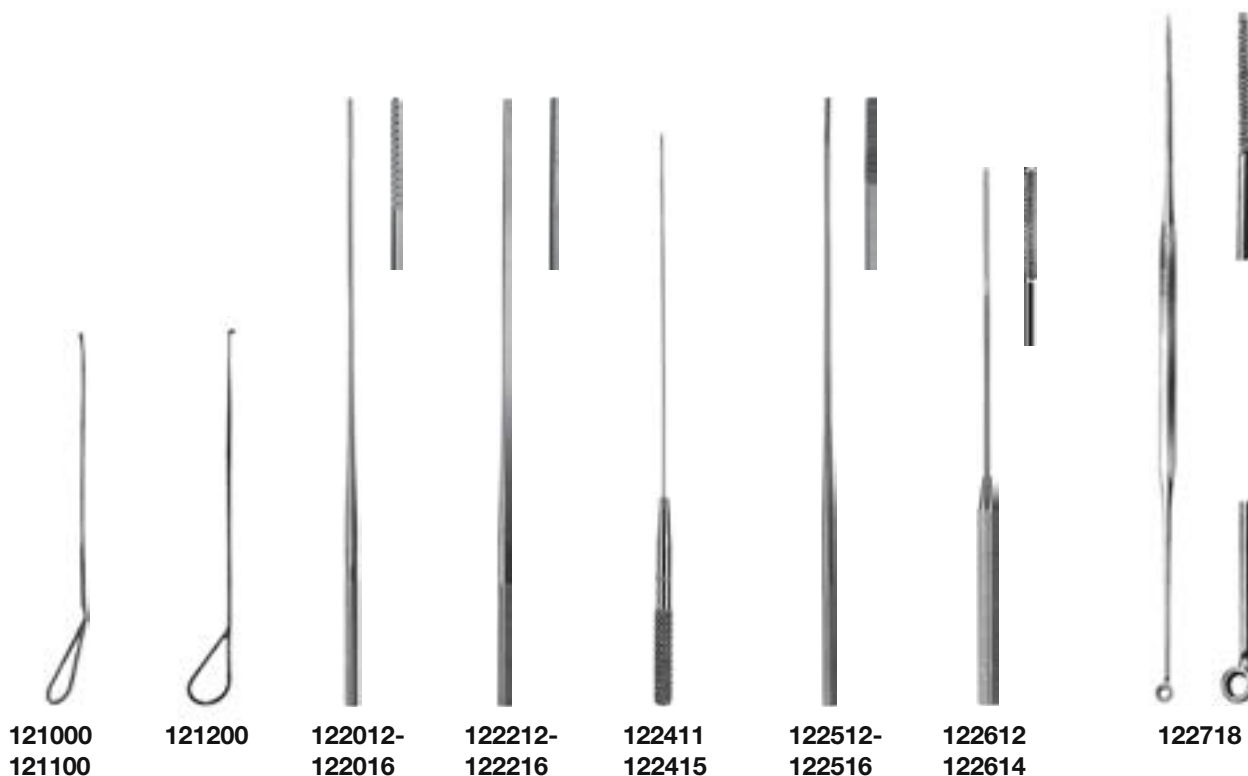
216401/216411	Fig. 1 = 4.2 x 4.6 mm
216402/216412	Fig. 2 = 5.2 x 5.8 mm
216403/216413	Fig. 3 = 5.9 x 6.8 mm
216404/216414	Fig. 4 = 7.0 x 8.0 mm
216405/216415	Fig. 5 = 7.9 x 9.2 mm
216406/216416	Fig. 6 = 8.8 x 10.1 mm
216407/216417	Fig. 7 = 9.5 x 10.8 mm

216201-216207
FARRIOR Ear Speculum oval, 20° oblique end,
size 1-7, otherwise same as 216001-216007

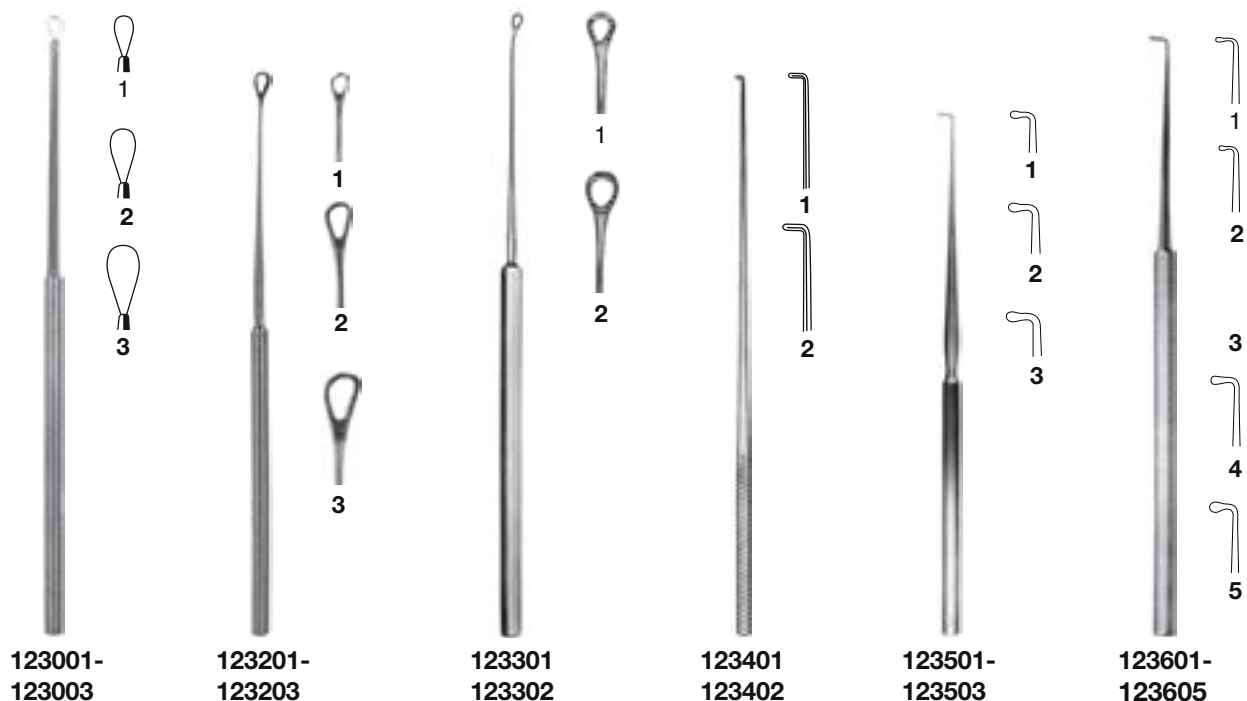
216211-216217
same, black finish, size 1-7

216201/216211	Fig. 1 = 4.2 x 4.6 mm
216202/216212	Fig. 2 = 5.2 x 5.8 mm
216203/216213	Fig. 3 = 5.9 x 6.8 mm
216204/216214	Fig. 4 = 7.0 x 8.0 mm
216205/216215	Fig. 5 = 7.9 x 9.2 mm
216206/216216	Fig. 6 = 8.8 x 10.1 mm
216207/216217	Fig. 7 = 9.5 x 10.8 mm

Probes, Hooks, Curettes



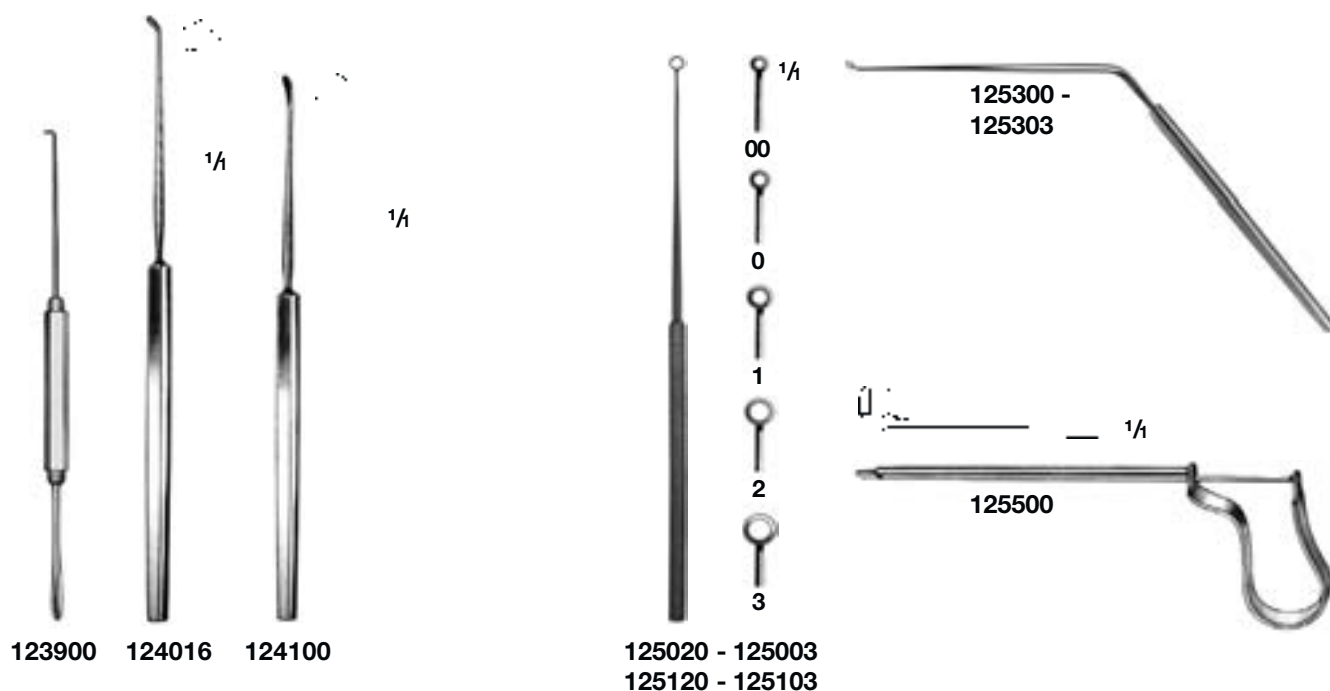
- 121000 STACKE Ear Probe, Silver plated, 11 cm
121100 same, Silver
- 121200 STACKE-FRENZEL Ear Probe, angled tip, Silver, 9 cm
- 122012 Cotton Applicator, stainless, serrated, 1.2 mm Ø, 12 cm
122014 same, 14 cm
122016 same, 16 cm
- 122212 Cotton Applicator, stainless, triangular, 1.2 mm Ø, 12 cm
122214 same, 14 cm
122216 same, 16 cm
- 122411 Cotton Applicator, stainless, twisted end, very delicate, 0.7 mm Ø, 11 cm
122415 same, 15 cm
- 122512 FROHN Cotton Applicator, stainless, twisted end, 1.0 mm Ø, 12 cm
122514 same, 14 cm
122516 same, 16 cm
- 122612 Cotton Applicator, stainless, triangular serrated, 1.5 mm Ø, 12 cm
122614 same, 14 cm
- 122718 JOBSON-HORNE Applicator and Curette, 18 cm



- 123001 BILLEAU Ear Loop, straight, 16.5 cm, size 1
 123002 same, size 2
 123003 same, size 3
- 123201 SNELLEN Ear Loop, curved, serrated, 15 cm, size 1
 123202 same, size 2
 123203 same, size 3
- 123301 SHAPLEIGH Ear Curette, curved, serrated, 16.5 cm, size 1
 123302 same, size 2
- 123401 DAY Ear Hook, 15 cm, size 1
 123402 same, size 2
- 123501 LUCAE Ear Hook, 14 cm, size 1
 123502 same, size 2
 123503 same, size 3
- 123601 WAGENER Ear Hook, 16 cm, size 1
 123602 same, size 2
 123603 same, size 3
 123604 same, size 4
 123605 same, size 5

Probes, Hooks, Curettes

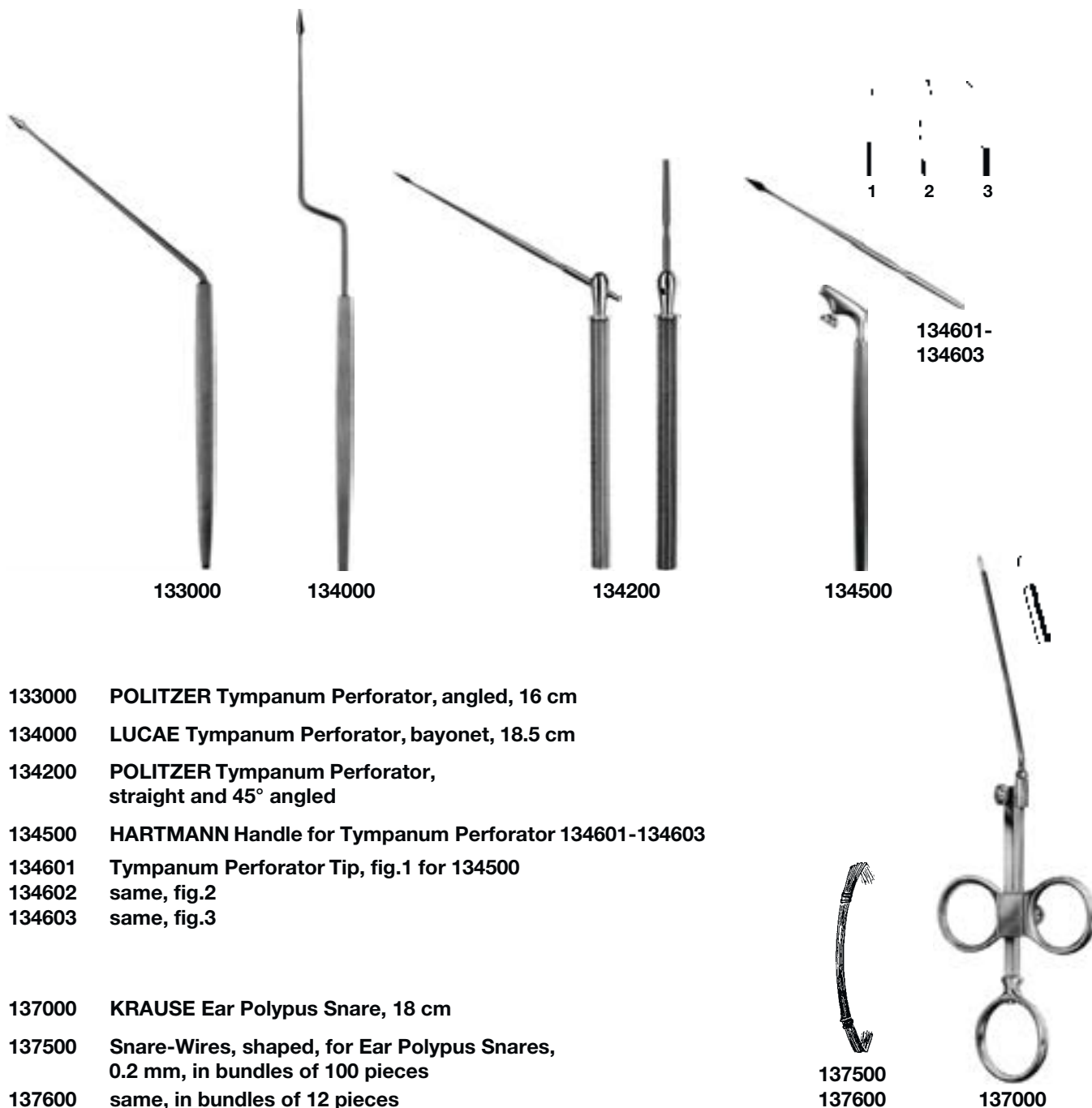
(cont.)



123900 GROSS Ear Hook and Spoon, 13 cm
 124016 MOLDENHAUER Ear Spatula, 16 cm
 124100 ZAUFAL Ear Spatula, 14.5 cm
 125020 BUCK Ear Curette, blunt, 15 cm, size 00
 125010 same, size 0
 125001 same, size 1
 125002 same, size 2
 125003 same, size 3

125120 BUCK Ear Curette, sharp, 15 cm, size 00
 125110 same, size 0
 125101 same, size 1
 125102 same, size 2
 125103 same, size 3
 125300 Ear Curette, angled, 35° upcurved, blunt, size 0
 125301 same, size 1
 125302 same, size 2
 125303 same, size 3
 125500 QUIRE Foreign Body Lever, 9 cm

Myringotomy Knives, Perforator, Ear Snare



133000 POLITZER Tympanum Perforator, angled, 16 cm

134000 LUCAE Tympanum Perforator, bayonet, 18.5 cm

134200 POLITZER Tympanum Perforator,
straight and 45° angled

134500 HARTMANN Handle for Tympanum Perforator 134601-134603

134601 Tympanum Perforator Tip, fig.1 for 134500

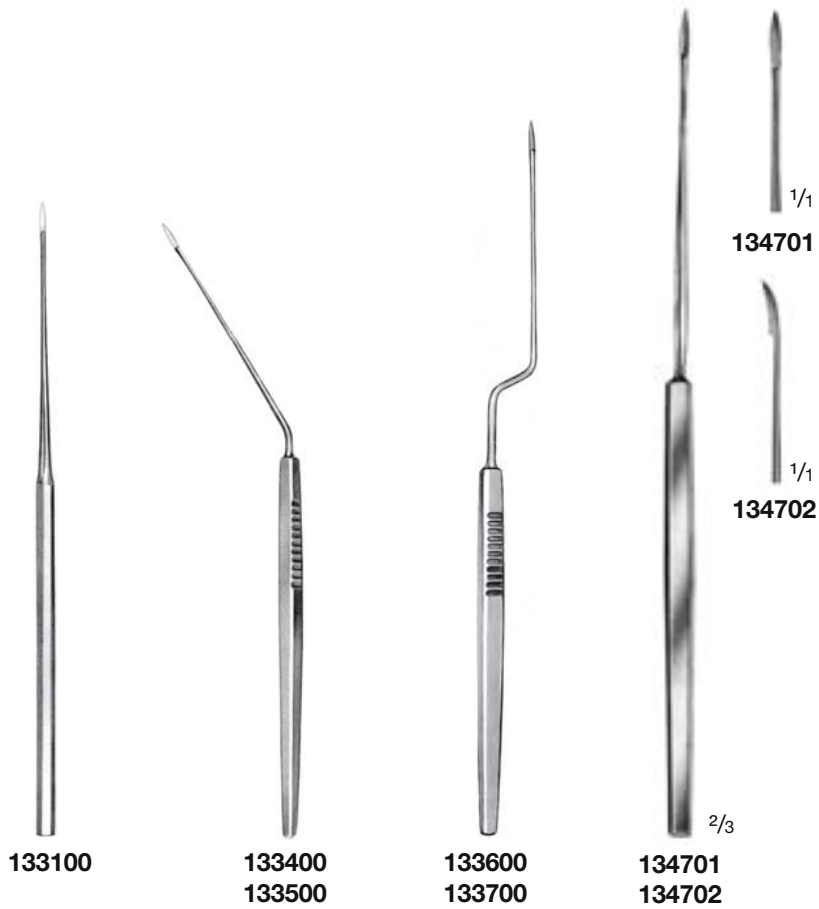
134602 same, fig.2

134603 same, fig.3

137000 KRAUSE Ear Polypus Snare, 18 cm

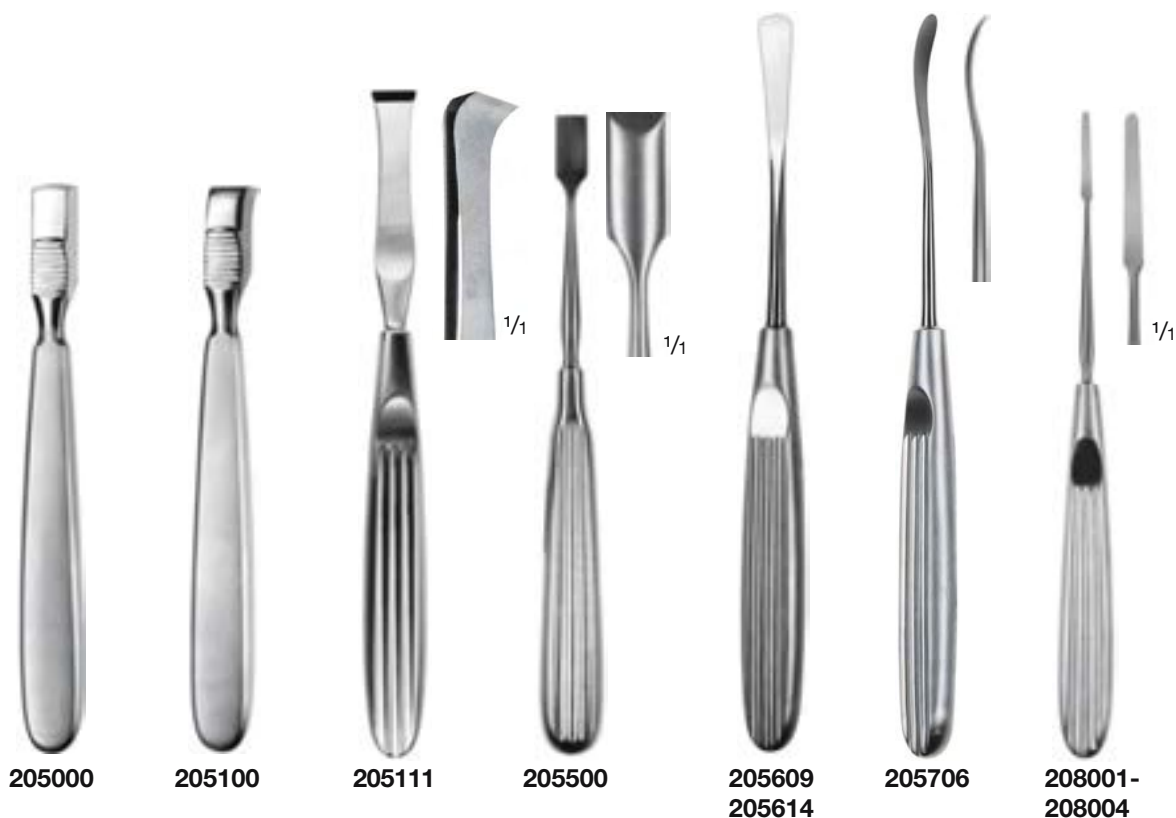
137500 Snare-Wires, shaped, for Ear Polypus Snare,
0.2 mm, in bundles of 100 pieces

137600 same, in bundles of 12 pieces

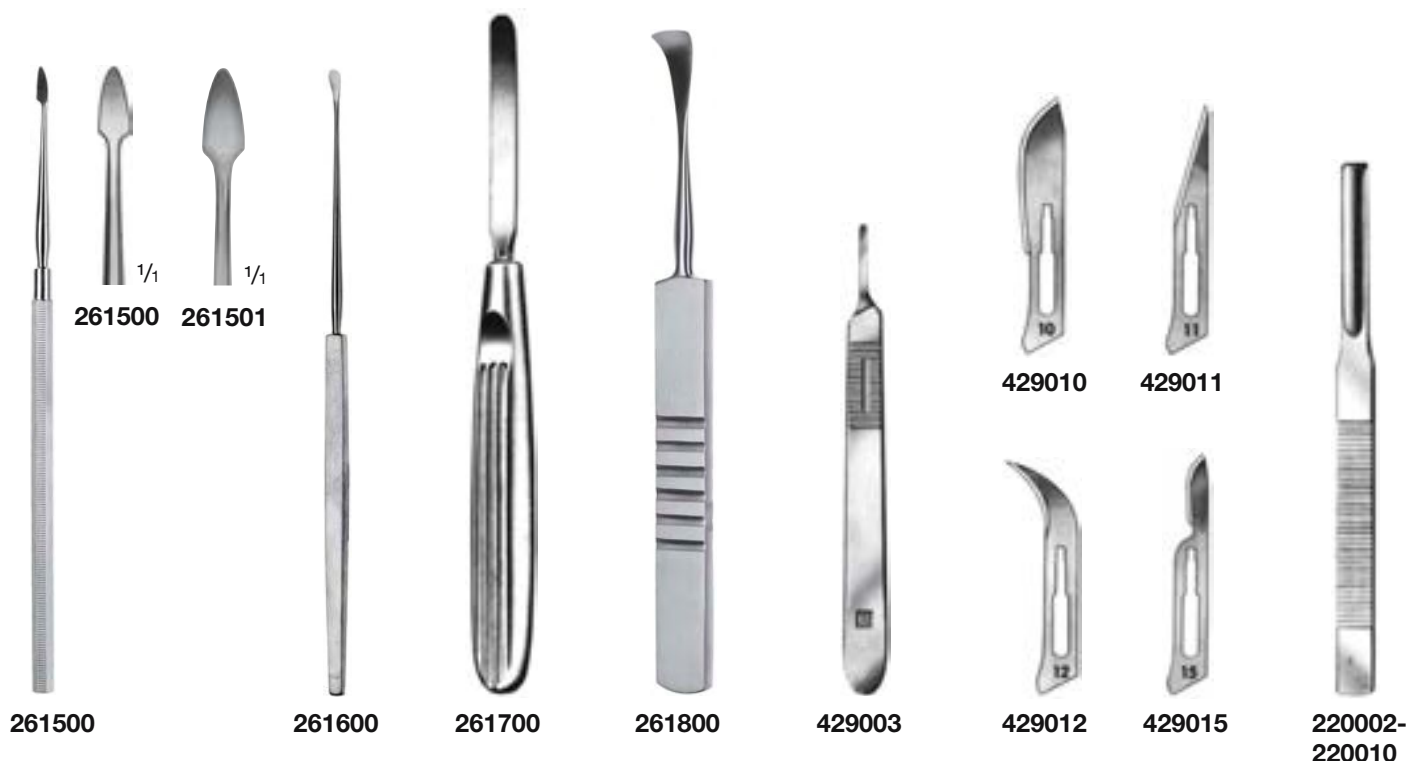


- 133100** Myringotomy Knife, straight, 16.5 cm
- 133400** ROYCE Ear Knife, angled, up-cutting, 16 cm
- 133500** same, down-cutting
- 133600** ROYCE Ear Knife, bayonet, up-cutting, 18 cm
- 133700** same, down-cutting
- 134701** POLITZER Ear Knife, straight, 16 cm
- 134702** same, curved

Elevators, Chisels, Gauges, Scalpels



205000	FARABOEUF Periost. Raspatory, 15 cm, 13 mm wide
205100	same, curved
205111	same, 17.5 cm, 11 mm wide
205500	ADSON Periost. Elevator, straight, 17 cm, 9 mm wide
205609	JANSEN Elevator, 19.5 cm, 9 mm wide
205614	same, 14 mm wide
205706	EICKEN Elevator, 19.5 cm, 6 mm wide
208001	LEMPERT Elevator, 17 cm, 2 mm wide
208002	same, 3 mm wide
208003	same, 4 mm wide
208004	same, 5 mm wide



- 261500 **WULLSTEIN Elevator, 16.5 cm, delicate size**
 261501 same, large size
 261600 **SHAMBOUGH-DERLACKI Duckbill Elevator, 16.5 cm**
 261700 **PLESTER Elevator, 18 cm, 8mm wide**
 261800 **Dura-Elevator, FISCH type, 17 cm, 5 mm wide**
 429003 **Scalpel Handle No. 3**
 429010 **Scalpel Blades, package of 100 pcs., each sterile, size 10**
 429011 same, size 11
 429012 same, size 12
 429015 same, size 15

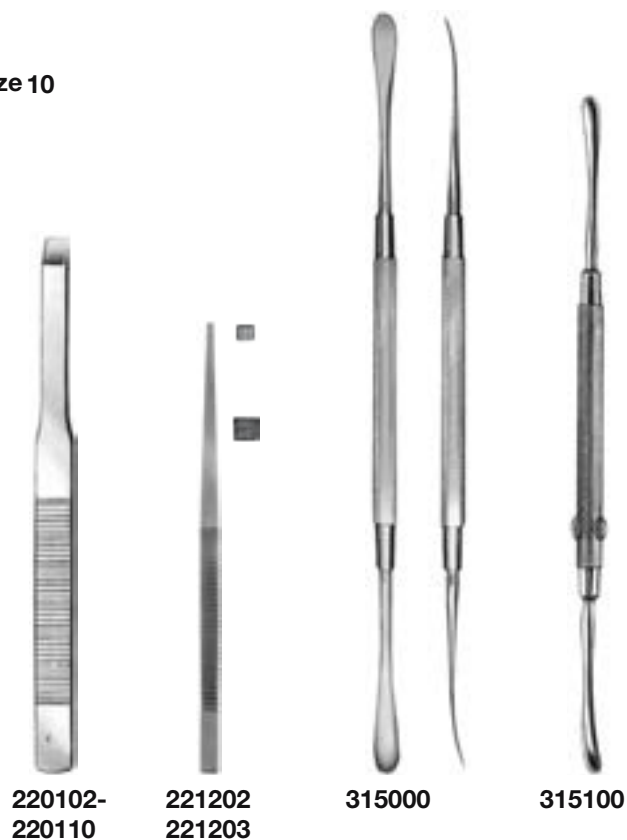
- 220002 **TRAUTMANN (PARTSCH) Gouge, 14 cm long, 2 mm wide**
 220004 same, 4 mm
 220006 same, 6 mm
 220008 same, 8 mm
 220010 same, 10 mm

- 220102 **TRAUTMANN (PARTSCH) Chisel, 14 cm long, 2 mm wide**
 220104 same, 4 mm
 220106 same, 6 mm
 220108 same, 8 mm
 220110 same, 10 mm

- 221202 **PASSOW Haemostatic Chisel, 12 cm long, 2 mm square shaped**
 221203 same, 3 mm

- 315000 **FREER Elevator, double-ended, 20 cm, USA model**

- 315100 **FREER Elevator, double-ended, 18 cm, standard pattern**



Curettes, Mallets

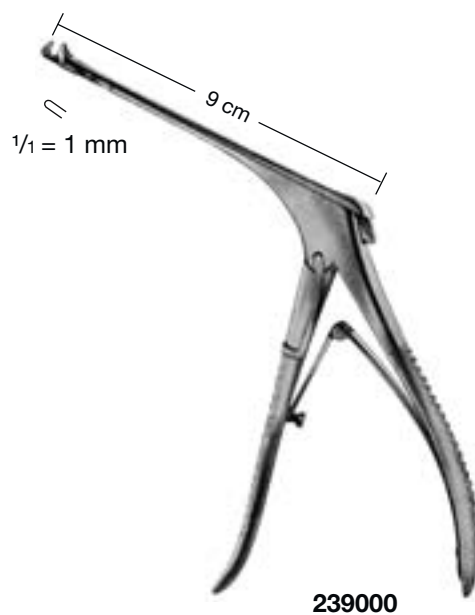


230000	HAJEK Metal Mallet, 21 cm, solid, 200 g, 26 mm Ø
242000	SPRATT Mastoid Curette, 16 cm, size 0
242001	same, size 1
242002	same, size 2
243050	LEMPERT Mastoid Curette, 21 cm, oval, size 5/0
243040	same, size 4/0
243030	same, size 3/0
243020	same, size 00
243010	same, size 0
413000	COTTLE Mallet, 18 cm, 335 g, with black handle
413500	Metal Mallet, with Nylon replacement, 18 cm, 320 g
413501	Nylon Facings only for 413500, pair

Rongeurs



231000	LUER Rongeur, curved, 15 cm
232000	LEMPERT Rongeur, straight, delicate, 19 cm
233000	BEYER Rongeur, curved, long slender jaws, 18 cm
234000	BEYER Rongeur, double action, curved, 18 cm
234200	RUSKIN Mastoid Rongeur, double action, curved, 18 cm



235000 KERRISON Rongeur,
working length 8 cm, size 0

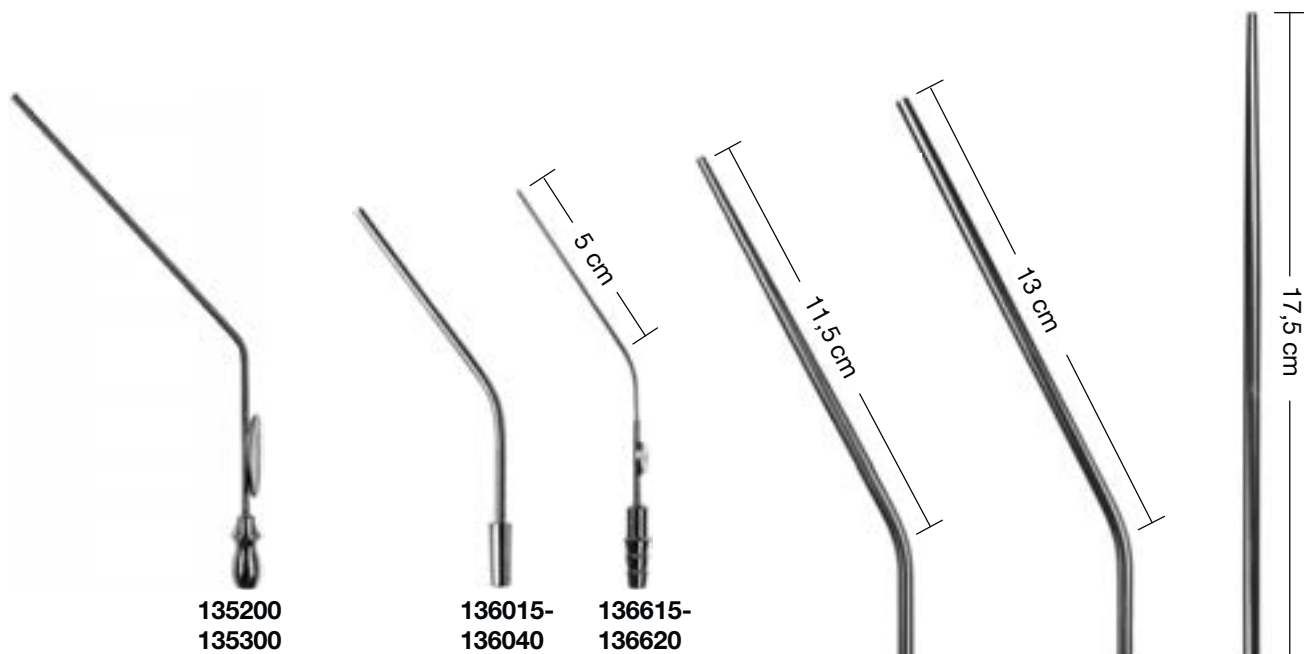
235001 same, size 1

235002 same, size 2

235003 same, size 3

239000 BEYER Atticus Punch, very delicate,
working length 9 cm, 1 mm wide

Suction Tubes



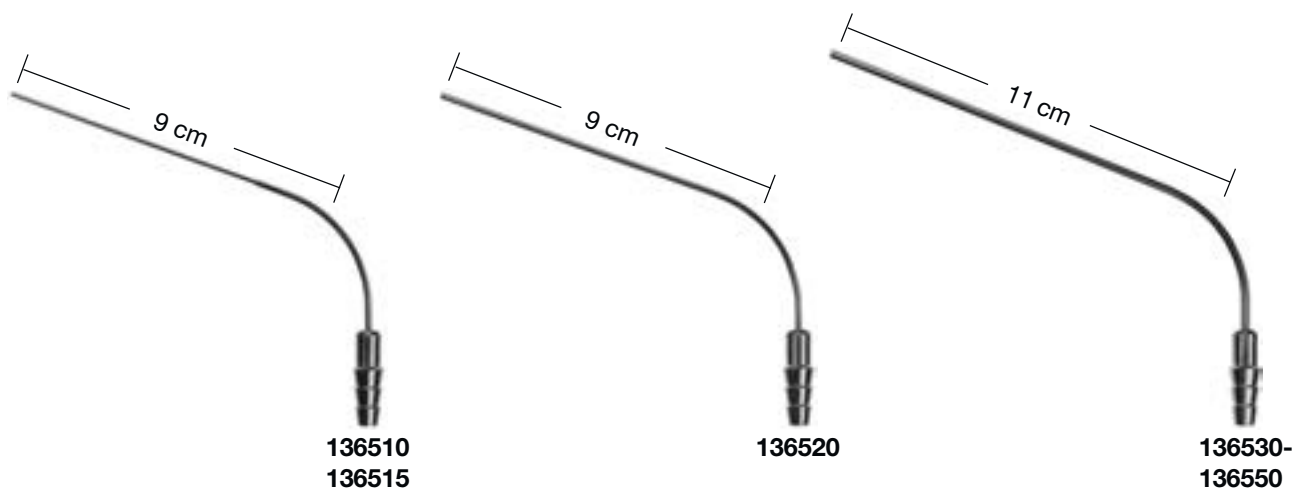
135200 VERHOEVEN Suct. Tube, 2.0 mm, straight
135300 same, 1.5 mm, straight

136015 NIJMEGEN Suction Tube, 1.5 mm
136020 same, 2.0 mm
136030 same, 3.0 mm
136040 same, 4.0 mm

136510 Suction Tube, angled, cylindr., Luer, 1.0 mm
136515 same, 1.5 mm
136520 same, 2.0 mm
136530 same, 3.0 mm
136540 same, 4.0 mm
136550 same, 5.0 mm

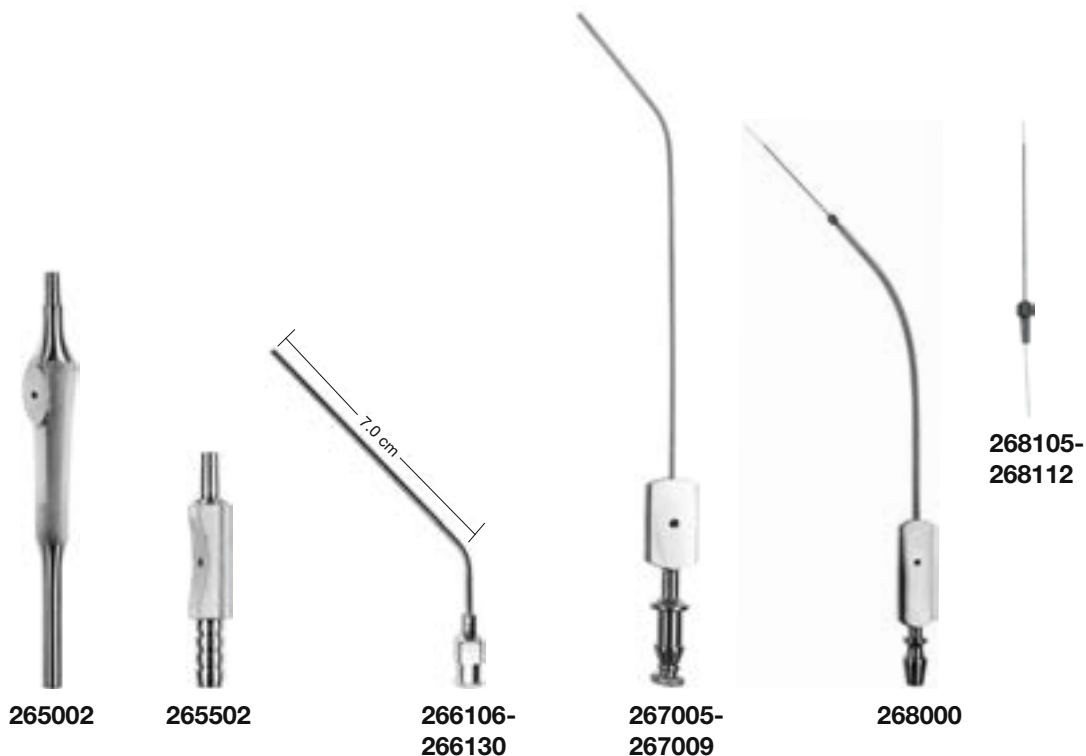
136615 BARNES Suction Tube, Luer, 1.5 mm
136617 same, 1.7 mm
136620 same, 2.0 mm

136730 Suct. Tube, 16.5 cm, conical, Luer, 3 mm
136735 same, 3.5 mm
136745 same, 4.5 mm, 19.5 cm long
136800 Suction Tube, 22.5 cm, 3 mm Ø, Luer



Suction Tubes

(cont.)



265002	WULLSTEIN Adapter, stainless steel, 11 cm, Luer
265502	HOUSE Adapter, 5.2 cm, Luer
266106	HOUSE Suction Cannula, 0.6 mm Ø, Luer-Lock
266108	same, 0.8 mm
266110	same, 1.0 mm
266112	same, 1.2 mm
266115	same, 1.5 mm
266118	same, 1.8 mm
266120	same, 2.0 mm
266122	same, 2.2 mm
266125	same, 2.5 mm
266130	same, 3.0 mm
267005	PLESTER Suction Tube, with cut-off, Luer, 19 cm, 5 Ch.
267007	same, 7 Ch.
267009	same, 9 Ch.
268000	ZÖLLNER Suction Tube, with 0.7 mm-Tip, stainless, 15 cm, Luer
268105	ZÖLLNER tip only, stainless, O.D. 0.5 mm
268106	same, 0.6 mm
268107	same, 0.7 mm
268109	same, 0.9 mm
268112	same, 1.2 mm

134803-
134807



210006-
210012



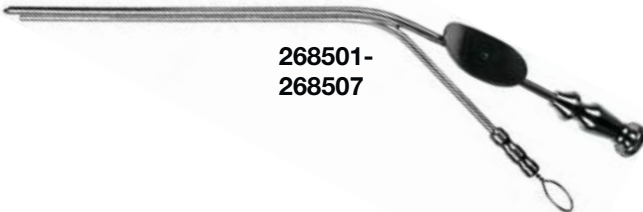
267500



267601
267602



268501-
268507



269020
269024



134803 **BARON Suction Tube,**
working length 7.5 cm, 3 Fr.
134805 same, 5 Fr.
134807 same, 7 Fr.

210006 **FRAZIER Suction Tube, stainless,**
6 Fr. = 2.0 mm
210008 same, 8 Fr. = 2.75 mm
210010 same, 10 Fr. = 3.35 mm
210012 same, 12 Fr. = 4.00 mm

267500 **WULLSTEIN Irrig. Tube, Luer, Silver,**
conical, 1.5 mm Ø, working l. 14 cm
267601 same, *cylindrical*, 1.5 mm Ø
267602 same, 2.0 mm Ø

268501 **HOUSE Suction Irrigator, cylindrical,**
work. length 9 cm, Luer, 4.5 x 2.0 mm
268502 same, 3.0 x 2.0 mm
268503 same, 2.5 x 2.0 mm
268504 same, 1.8 x 1.8 mm
268505 same, 1.5 x 1.2 mm
268506 same, 1.2 x 0.9 mm
268507 same, 0.9 x 0.7 mm

269020 **SCHUHKNECHT Suction Tube, 20 Gauge**
269024 same, 24 Gauge



208612
208615



208712
208715



208915



209014



209114



209210
209220



209310
209320

208612 SEMKEN Dressing Forceps, delicate, straight, length 12.5 cm
208615 same, length 15 cm

208712 SEMKEN Tissue Forceps, delicate, straight, length 12.5 cm
208715 same, length 15 cm

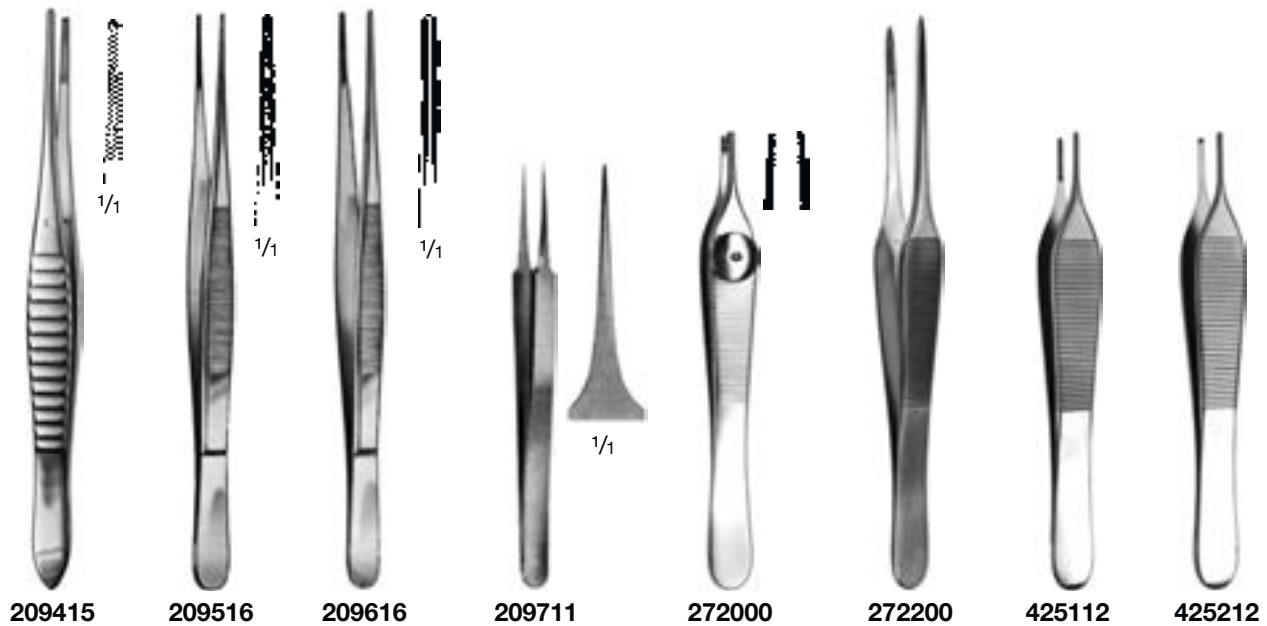
208915 McINDOE Dressing Forceps, straight, length 15 cm

209014 Dressing Forceps, standard pattern, straight, length 14.5 cm

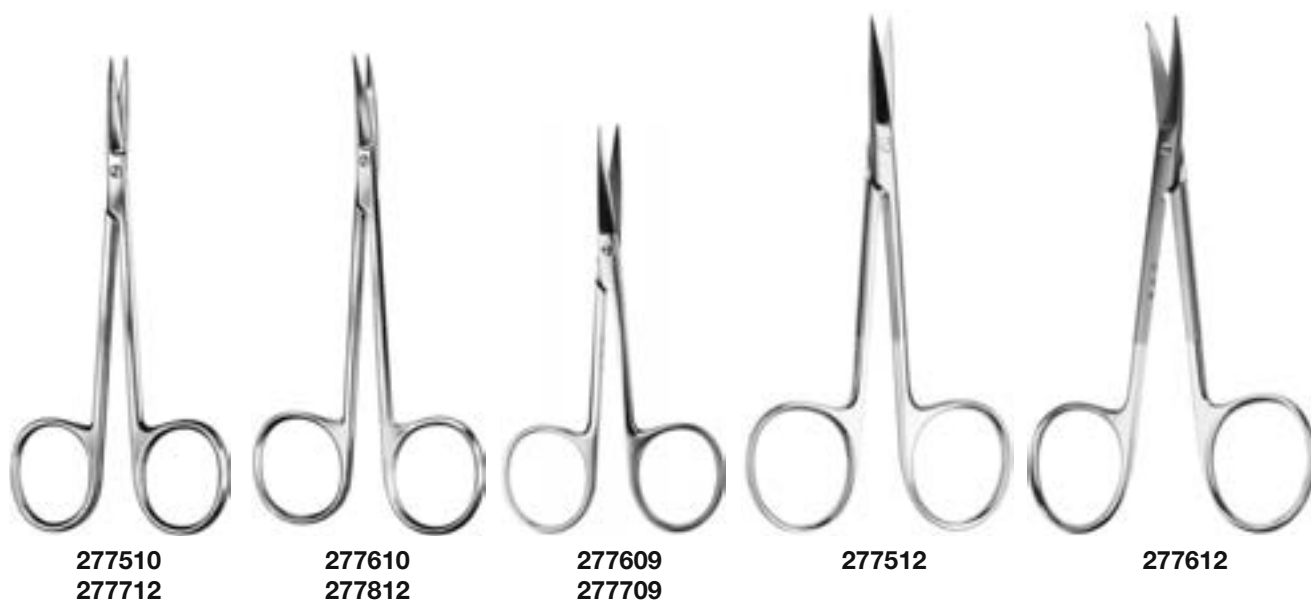
209114 Tissue Forceps, standard pattern, 1:2 teeth, straight, length 14.5 cm

209210 GRAEFE Iris Forceps, serrated, straight, 0.7 mm, length 10 cm
209220 same, curved

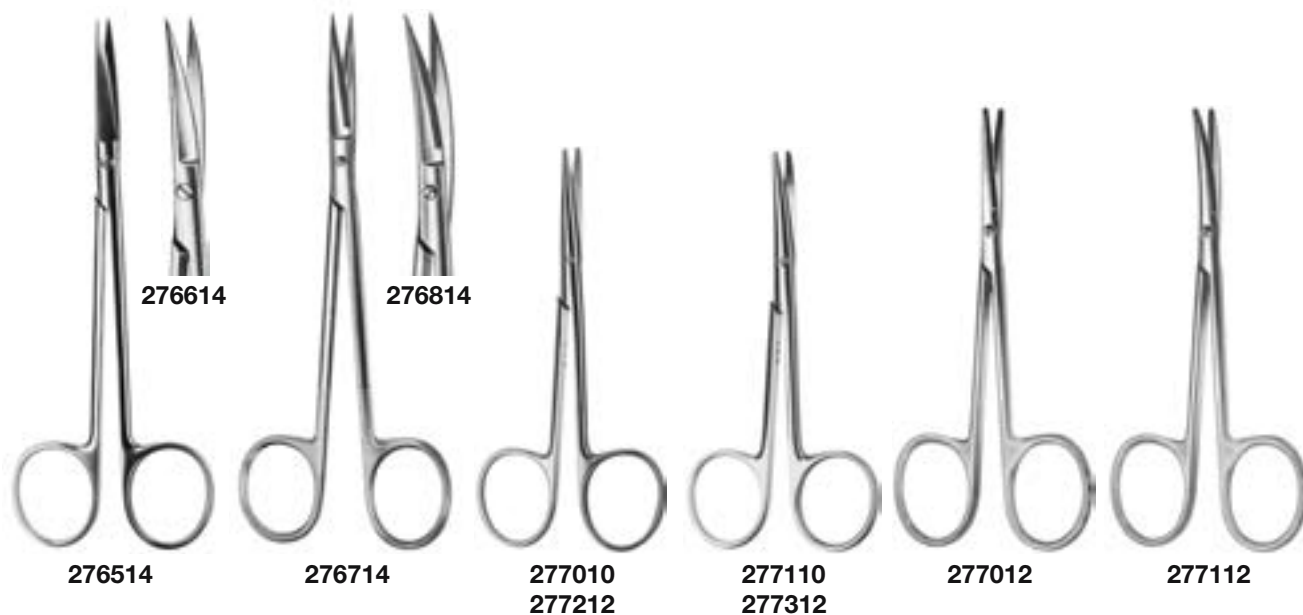
209310 GRAEFE Iris Forceps, 1 x 2 teeth, straight, 0.7 mm, length 10 cm



- 209415** GILLIES Tissue Forceps, 15 cm
- 209516** DeBAKEY Atraumatic Forceps, 15 cm, 1.5 mm wide
- 209616** same, 2 mm wide
- 209711** Jeweler Forceps, pointed, straight, 11 cm
- 272000** DERLACKI Clamp, Ossicle Holding, 12 cm
- 272200** HELMS Forceps, pointed, non-traumatic, slender front part for deeper sight of field, 15 cm
- 425112** ADSON Dressing Forceps, 12 cm
- 425212** ADSON Tissue Forceps, 1:2 teeth, 12 cm



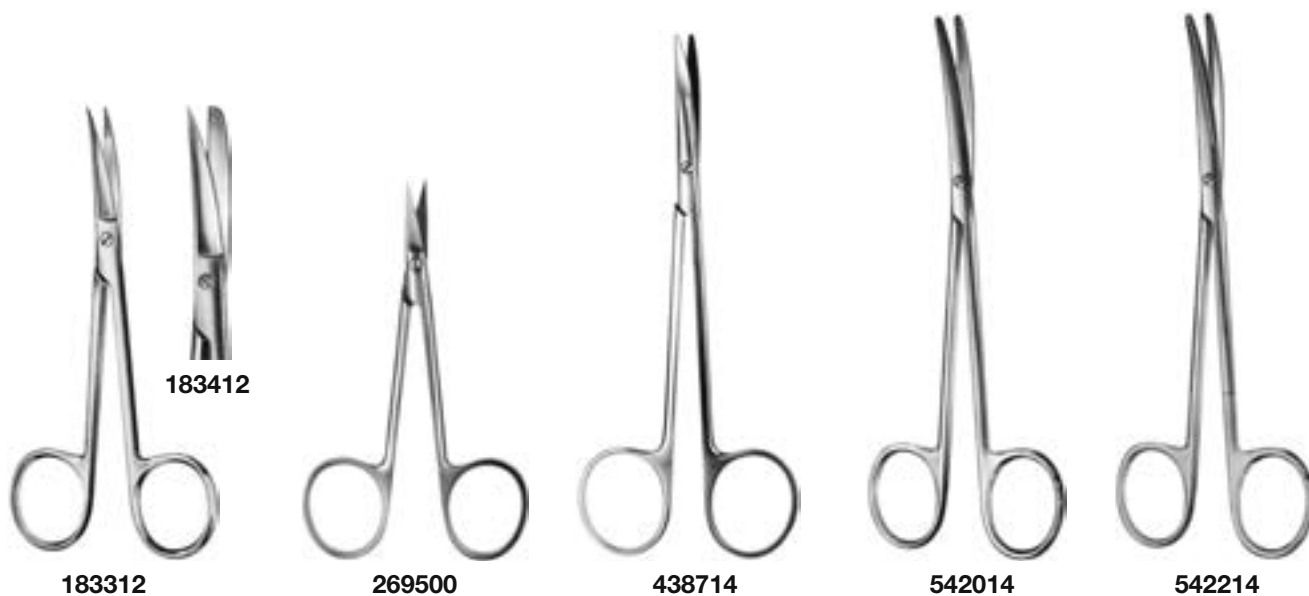
277510	Scissors, 10.5 cm, straight, sharp/sharp
277610	same, curved
277712	Scissors, 11.5 cm, straight, sharp/sharp
277812	same, curved
277609	Scissors, 9.0 cm, straight, sharp/sharp
277709	same, curved
277512	Scissors, 11.5 cm, straight, sharp/sharp with TUNGSTEN CARBIDE Inserts
277612	Scissors, 11.5 cm, curved, sharp/sharp with TUNGSTEN CARBIDE Inserts



- 276514** JOSEPH Scissors, 14 cm, sharp/sharp, straight
276614 same, curved
276714 same, with TUNGSTEN CARBIDE Inserts, straight
276814 same, with TUNGSTEN CARBIDE Inserts, curved
- 277010** Scissors, 10.5 cm, blunt/blunt, straight
277110 same, curved
- 277212** Scissors, 11.5 cm, blunt/blunt, straight
277312 same, curved
- 277012** Scissors, 11.5 cm, blunt/blunt,
 with TUNGSTEN CARBIDE Inserts, straight
277112 same, with TUNGSTEN CARBIDE Inserts, curved

Scissors

(cont.)



183312	Scissors, delicate, sharp/sharp, curved, 12 cm
183412	same, sharp/blunt
269500	SCHUHKNECHT Wire Cutter, serrated, 10 cm
438714	KILNER Scissors, curved, flat end, 14 cm, for elevation of the tympanic membrane
542014	METZENBAUM Dissecting Scissors, 14.5 cm, curved
542214	same, with TUNGSTEN CARBIDE Inserts



212216



212316



212326



213015

212216 LEXER Diss. Scissors, straight, delicate, 16 cm

212316 LEXER Diss. Scissors, curved, delicate, 16 cm

212326 same, with TUNGSTEN CARBIDE Inserts

**213015 CRILE-WOOD Needle Holder, straight, 15 cm,
with TUNGSTEN CARBIDE Inserts**

Retractors



200011-200016
200111-200116

200211-200220
200311-200320

200413

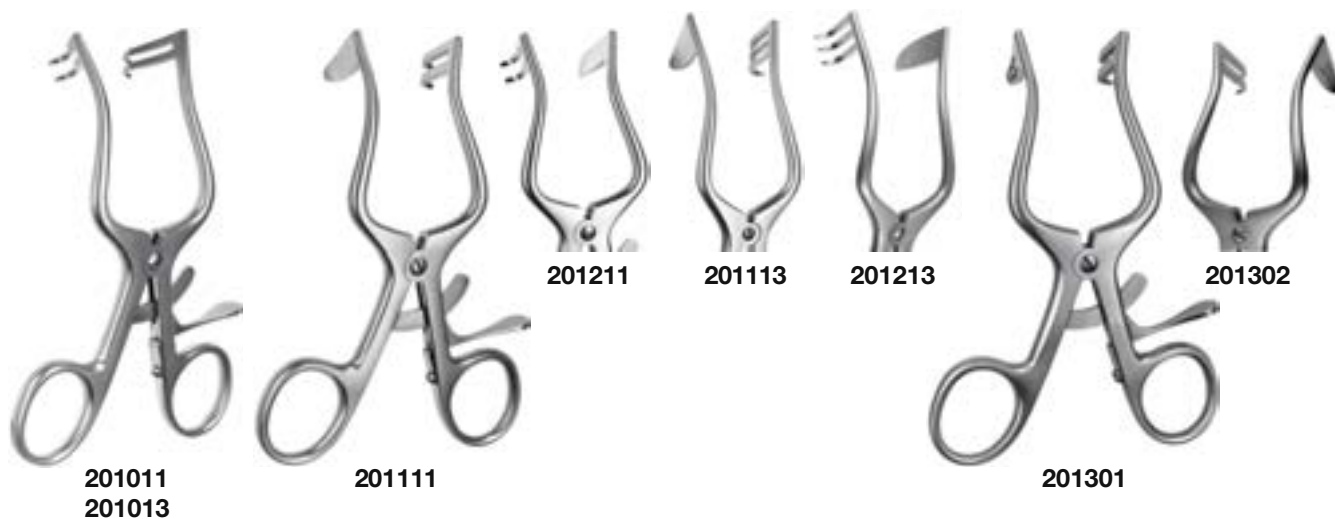
200011 WULLSTEIN Retractor, 3 x 3 prongs, sharp, 11 cm
200013 same, 13 cm
200016 same, 16 cm

200111 WULLSTEIN Retractor, 3 x 3 prongs, blunt, 11 cm
200113 same, 13 cm
200116 same, 16 cm

200211 WEITLANER Retractor, 2 x 3 prongs, sharp, 11 cm
200213 same, 3 x 4 prongs, sharp, 13 cm
200216 same, 16 cm
200220 same, 20 cm

200311 WEITLANER Retractor, 2 x 3 prongs, blunt, 11 cm
200313 same, 3 x 4 prongs, blunt, 13 cm
200316 same, 16 cm
200320 same, 20 cm

200413 SCHUHKNECHT Retractor, FISCH type,
3 x 3 prongs, curved, 13 cm



- 201011 **PLESTER Retractor, 2 x 2 prongs, 11 cm**
- 201013 **Retractor, FISCH type, 2 x 2 prongs, 13 cm**
- 201111 **PLESTER Retractor, 2 prongs right, solid blade left, 11 cm**
- 201113 **same, 3 prongs right, solid blade left, 13 cm**
- 201211 **PLESTER Retractor, 2 prongs left, solid blade right, 11 cm**
- 201213 **same, 3 prongs left, solid blade right, 13 cm**
- 201301 **HELMS Retractor, 2 prongs right,
solid atraumatic pointed blade left, 11 cm**
- 201302 **same, 2 prongs left, solid atraumatic pointed blade right, 11 cm**

Retractors

(cont.)



201400



202311
202313



202411
202413



20 3011-203111
203013-203113

- 201400 WILLIGER Retractor, 4 sharp prongs, 13 cm
- 202311 PERKINS Retractor, 11 cm, 2 prongs right, pointed blade left
- 202313 same, 13 cm, 3 prongs right, pointed blade left
- 202411 same, 11 cm, 2 prongs left, pointed blade right
- 202413 same, 13 cm, 3 prongs left, pointed blade right
- 203011 WIGAND Retractor, for endaural Tympanoplasty, 11 cm, for the left ear, pointed blade right
- 203013 same, 13 cm, for the left ear, right side pointed
- 203111 same, 11 cm, for the right ear, left side pointed
- 203113 same, 13 cm, for the right ear, left side pointed
- 201510 Retractor, self-retaining, crossed, 10 cm, 4x4 blunt prongs, delicate
- 201811 WIGAND Retractor for endaural Tympanoplasty, 11 cm, long slender serrated blade left, 2 prongs right
- 201911 same, blade right, 2 prongs left



201510



201811



201911

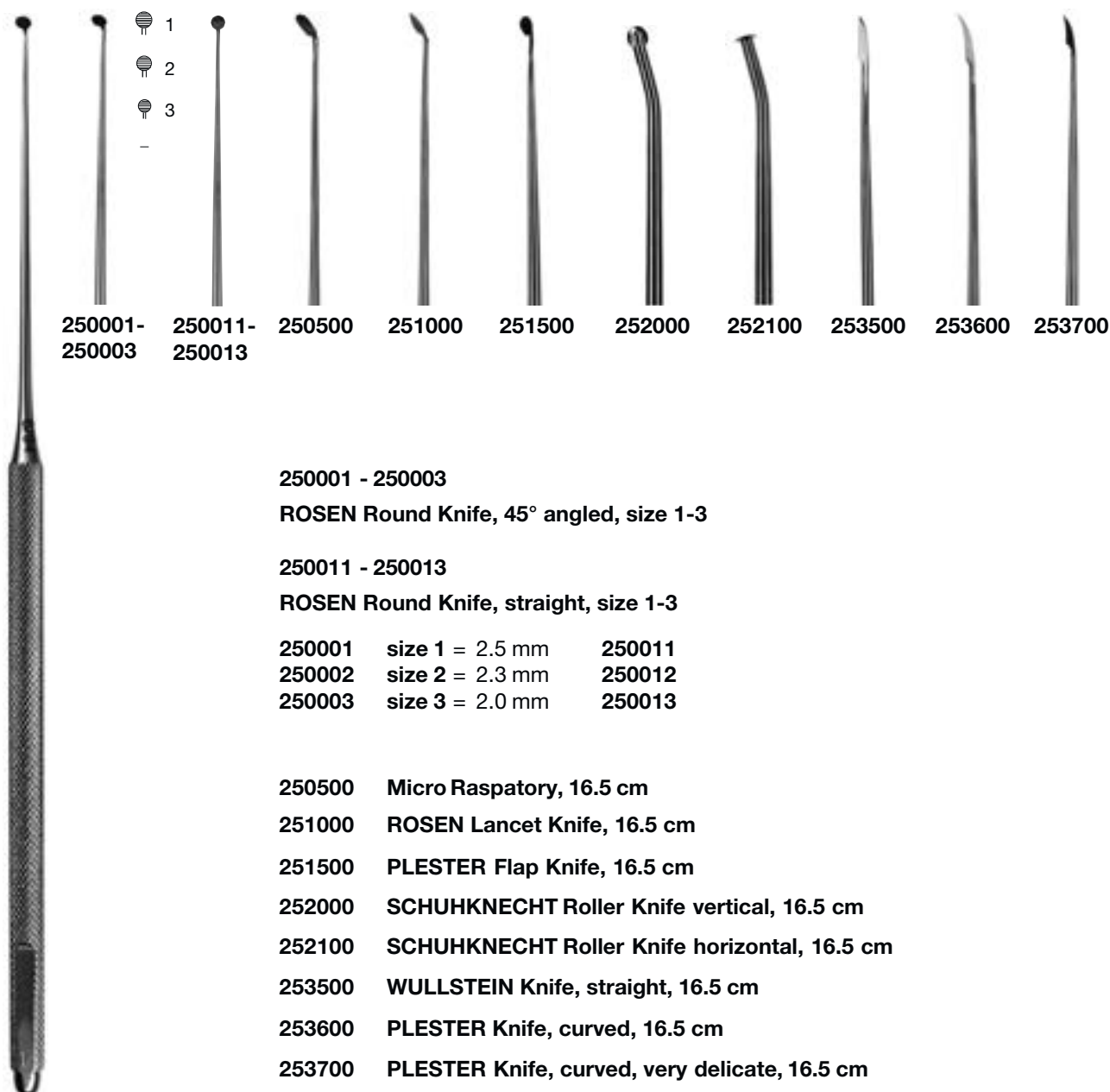


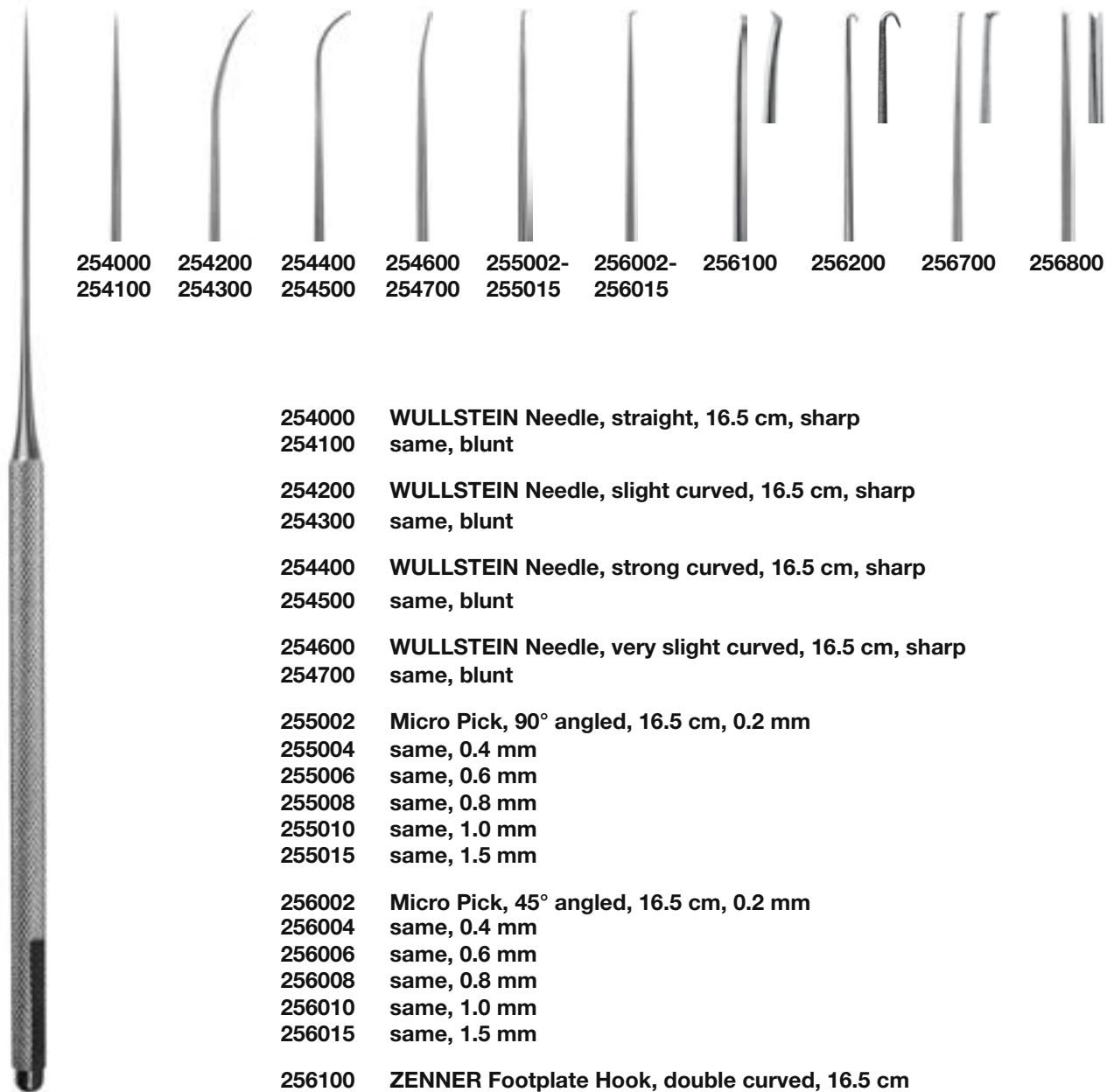
- 202517** Adjustable Mastoid Retractor, FISCH type, 16.5 cm, 3 x 3 prongs
- 202617** Adjustable Retractor, FISCH type, 16.5 cm,
3 prongs right, solid blade left
- 202717** same, 3 prongs left, solid blade right
- 202817** HOUSE Vascular Strip Retractor, 16.5 cm,
3 prongs right, solid blade with sharp pins left
- 202917** same, 3 prongs left, solid blade with sharp pins right
- 203230** SCHWABER Adjustable Speculum, 16.5 cm, self-retaining Surgical
Speculum for otologic procedures, short, 30 mm blade length
- 203250** same, 50 mm blade length
- 203275** same, 75 mm blade length
- 202800** Dura Retractor, FISCH type, 18 cm, complete with 3 Spatula and 1 Key
- 202802** Key for 202800
- 202803** Spatula, straight, short
- 202804** Spatula, straight, long
- 202805** Spatula, curved, long

Spare parts for 202800



Knives, Needles, Hooks, Picks





Micro Needles, Micro Hooks, Picks



257000
257100

258102-
258110

258202-
258210

258302-
258310

258402-
258410

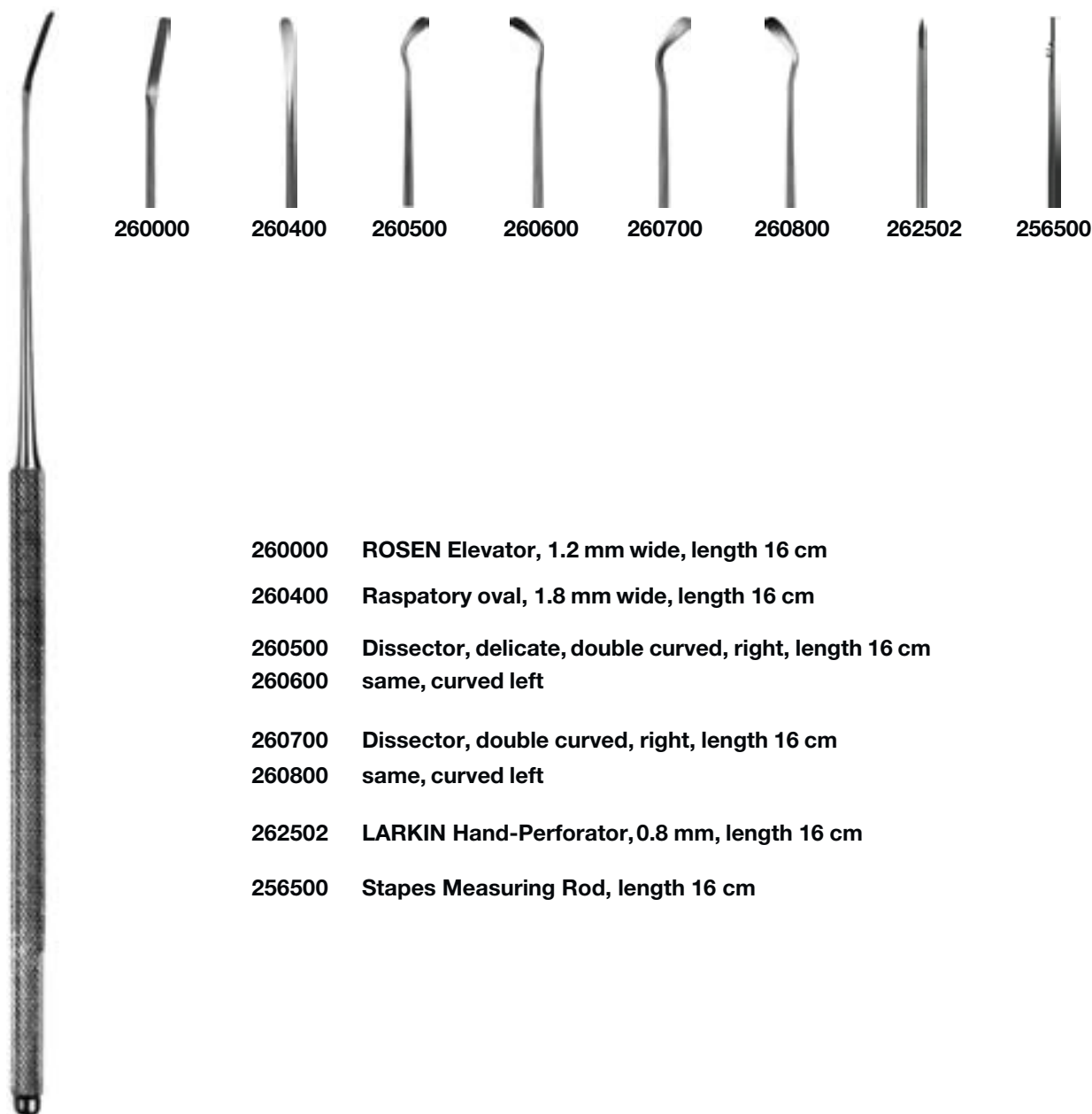
257000	SCHUHKNECHT Micro Needle, 16.5 cm, straight, sharp
257100	SCHUHKNECHT Micro Needle, 16.5 cm, straight, blunt
258102	SCHUHKNECHT Micro Hook, 16.5 cm, 90° angled, 0.2 mm, left
258104	same, 0.4 mm, left
258106	same, 0.6 mm, left
258108	same, 0.8 mm, left
258110	same, 1.0 mm, left
258202	same, 0.2 mm, right
258204	same, 0.4 mm, right
258206	same, 0.6 mm, right
258208	same, 0.8 mm, right
258210	same, 1.0 mm, right
258302	same, 0.2 mm, upward
258304	same, 0.4 mm, upward
258306	same, 0.6 mm, upward
258308	same, 0.8 mm, upward
258310	same, 1.0 mm, upward
258402	same, 0.2 mm, downward
258404	same, 0.4 mm, downward
258406	same, 0.6 mm, downward
258408	same, 0.8 mm, downward
258410	same, 1.0 mm, downward

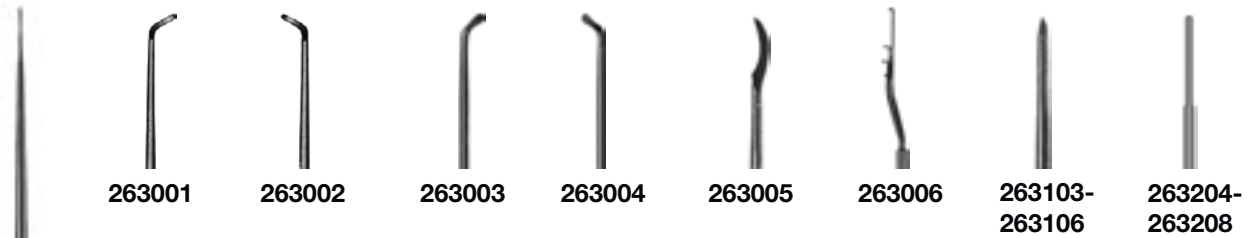


259002- 259010	259102- 259110	259202- 259210	259302- 259310

259002	SCHUHKNECHT Micro Hook, 16.5 cm, 45° angled, 0.2 mm, downward
259004	same, 0.4 mm, downward
259006	same, 0.6 mm, downward
259008	same, 0.8 mm, downward
259010	same, 1.0 mm, downward
259102	same, 0.2 mm, left
259104	same, 0.4 mm, left
259106	same, 0.6 mm, left
259108	same, 0.8 mm, left
259110	same, 1.0 mm, left
259202	same, 0.2 mm, right
259204	same, 0.4 mm, right
259206	same, 0.6 mm, right
259208	same, 0.8 mm, right
259210	same, 1.0 mm, right
259302	same, 0.2 mm, upward
259304	same, 0.4 mm, upward
259306	same, 0.6 mm, upward
259308	same, 0.8 mm, upward
259310	same, 1.0 mm, upward

Elevators, Dissectors, Perforators, Whetstones

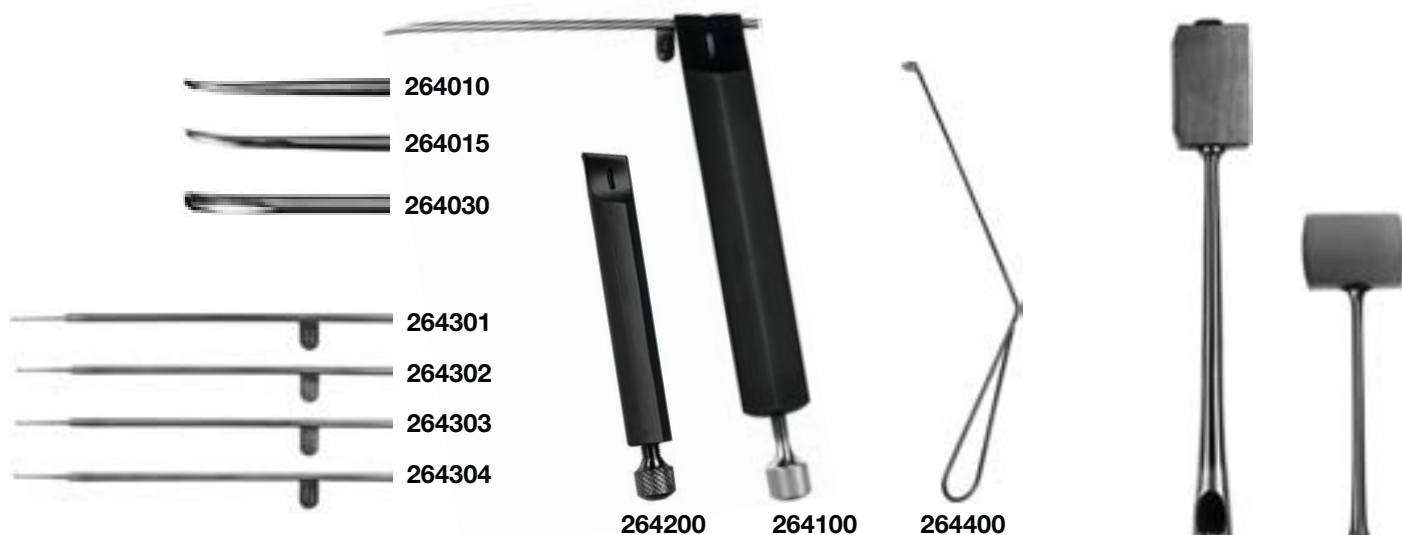




- 263001 Dissector, FISCH type, 16 cm, double curved, right
- 263002 Dissector, FISCH type, 16 cm, double curved, left
- 263003 Dissector, FISCH type, 16 cm, single curved, right
- 263004 Dissector, FISCH type, 16 cm, single curved, left
- 263005 Sickle Knife, FISCH type, 16 cm
- 263006 Stapes Caliper, FISCH type, 16.5 cm
- 263103 Perforator, FISCH type, 16 cm, 0.3 mm Ø
- 263104 same, 0.4 mm Ø
- 263105 same, 0.5 mm Ø
- 263106 same, 0.6 mm Ø
- 263204 Caliper, FISCH type, 16.5 cm, 0.4 mm Ø
- 263206 same, 0.6 mm Ø
- 263208 same, 0.8 mm Ø
- 403800 Arkansas Whetstone, 9x4 cm, autoclavable



403800



263500 HEERMANN Mallet, large, 21.5 cm

263501 HEERMANN Mallet, small, 16.5 cm

264010 HEERMANN Gouge, curved, for partial resection of the bony posterior aural meatus and the lateral attic wall, 1.0 mm

264015 same, 1.5 mm

264030 same, 3.0 mm

264100 HEERMANN Handle, black finish, 13 cm, for use with 264010-264030 / 264301-264304

264200 same, small, 9 cm

264301 HEERMANN Stapes Mobilization Hook, size 1

264302 same, size 2

264303 same, size 3

264304 same, size 4

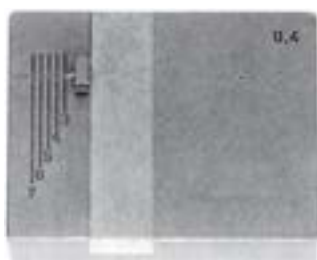
264400 HEERMANN Attic Inspection Mirror, stainless, 11.5 cm, 4 mm Ø, flexible

281700 HEERMANN finest grasping forceps, with long, delicate jaws, for work between the stapes, in the small cavity of the oval window and around the footplate



281700

Cutting Tools for Prosthesis

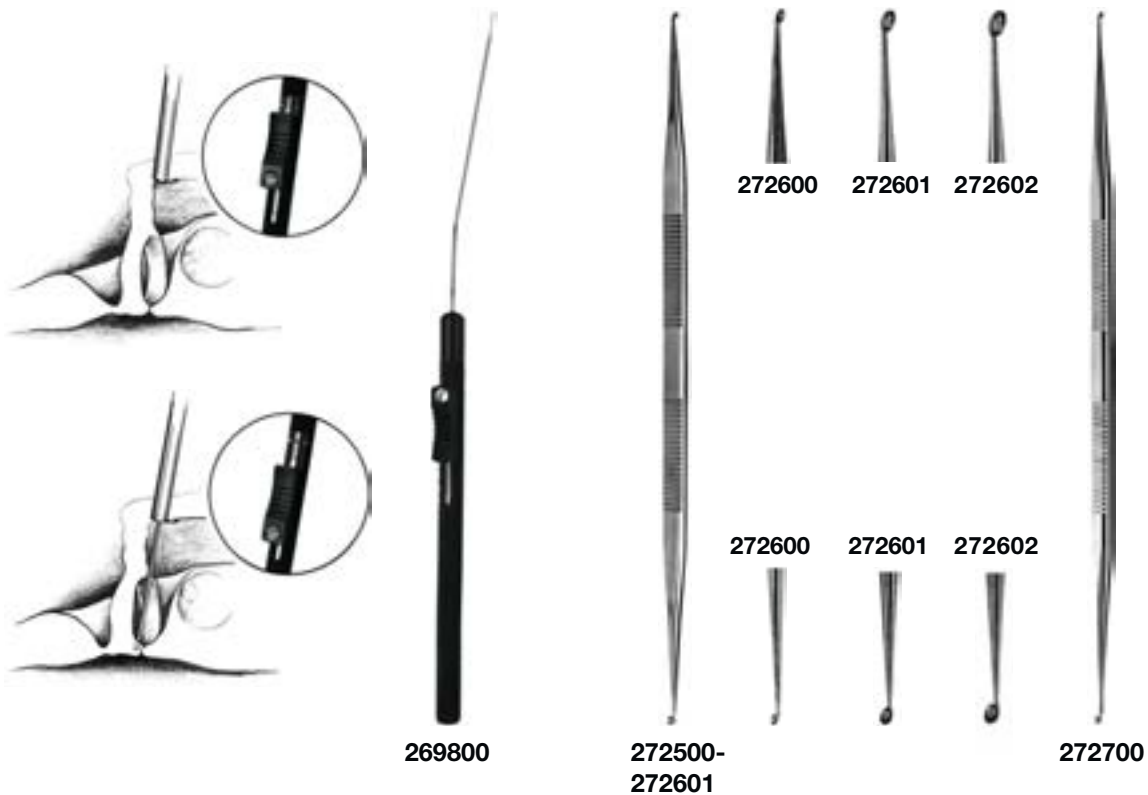


- 264500 HOUSE Gelfoam Pressure Forceps, large of platform 11 x 14 cm, 18 cm long
- 264501 same, large of platform 30 x 30 mm
- 264502 same, large of platform 22 x 30 mm (w/o illustr.)
- 269300 Piston Cutting Jig for Teflon prosthesis
- 269500 SCHUHKNECHT Wire Cutter, serrated, 10 cm
- 269404 Cutting Jig for prosthesis, FISCH type, 0.4 mm
- 269406 same, for prosthesis 0.6 mm
- 269600 Surgical Cutting Block, Plexiglass, round, autoclavable, 8 cm Ø
- 269700 Preparation Tray for implants

Wire Crimpers, Curettes

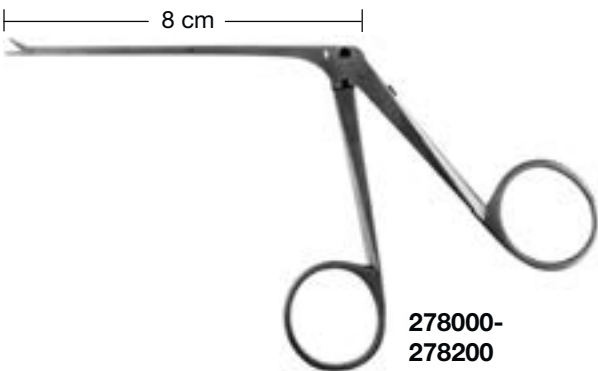
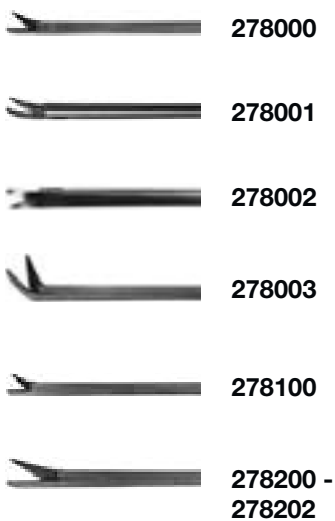


285000	McGEE Wire Crimper, 0.8 x 3.5 mm, working length 8 cm, curved downwards
285001	same, curved left
285002	same, curved right
285010	GREVEN Wire Crimper, working length 8 cm
285100	McGEE Wire Crimper, FISCH type, working length 8 cm

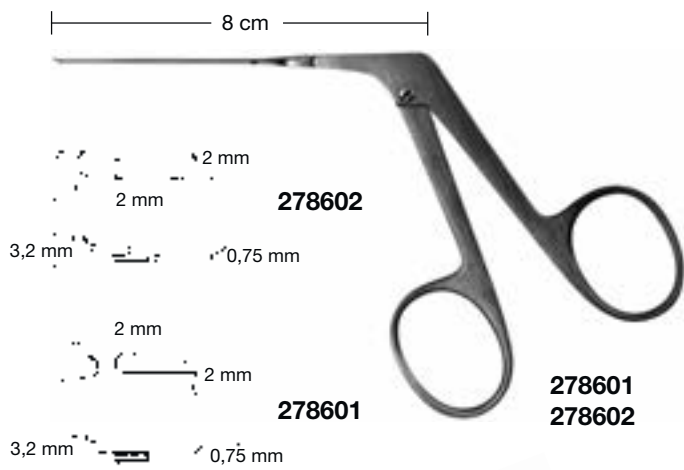


- 269800** Microsurgical Gauge for stapedectomy and tympanoplasty, range 0-7 mm, autoclavable
- 272500** HOUSE Curette, double-ended, sharp, curved, 17 cm, round cup Ø 1.0 mm and 1.2 mm
- 272600** same, oval cup Ø 1.0 mm and 1.2 mm
- 272601** same, oval cup Ø 1.5 mm and 1.8 mm
- 272602** same, oval cup Ø 2.2 mm and 2.5 mm, large size
- 272700** same, straight, round cup Ø 1.0 mm and 1.2 mm

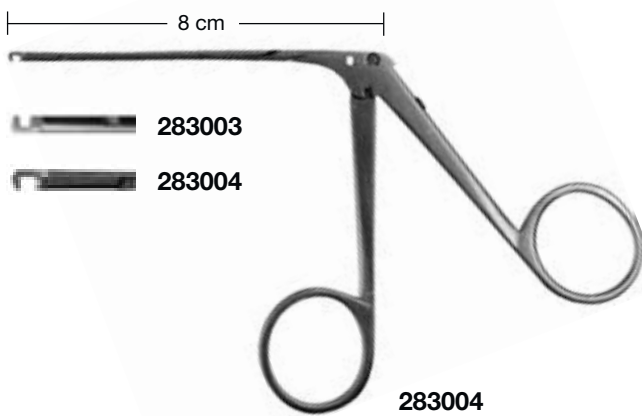
Micro Ear Scissors



- 278000 BELLUCCI Micro Ear Scissors, delicate, blades 4 mm, w. length 8 cm, straight
- 278001 same, blades 4 mm, curved left
- 278002 same, blades 4 mm, curved right
- 278003 same, blades 4 mm, curved up
- 278100 same, straight, very delicate, blades 3 mm
- 278200 SHEA-BELLUCCI Micro Ear Scissors, blades 8 mm, w. length 8 cm, straight
- 278201 same, blades 8 mm, curved left
- 278202 same, blades 8 mm, curved right
- 278300 Neurectomy Scissors, FISCH type, length 16 cm



- 278601** Crurotomy Scissors, FISCH type,
working length 8 cm, curved to left
- 278602** same, curved to right

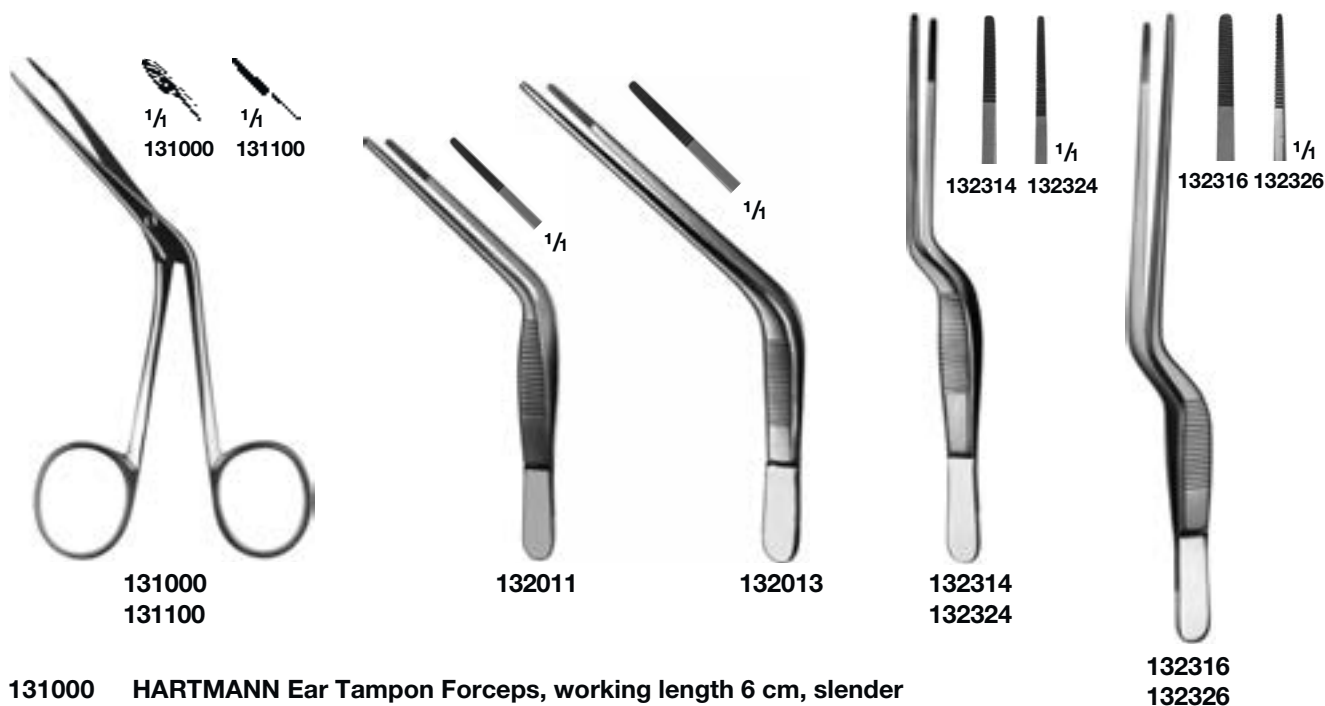


- 283003** DIETER Malleus Nipper,
working length 8 cm, upbiting
- 283004** same, downbiting



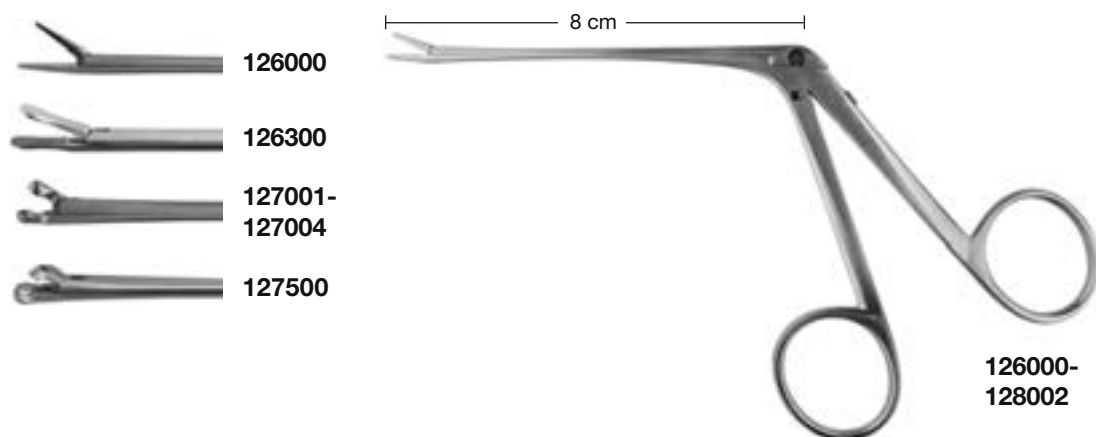
- 279900** Protecting-Sleeve for Ear Forceps,
11.5 cm, Forceps are stored and
autoclaved in the sleeve

Ear Forceps

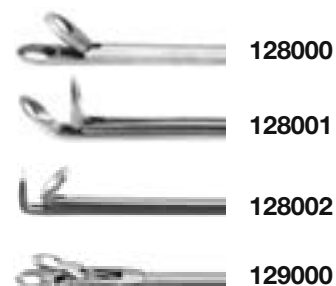


- 131000** HARTMANN Ear Tampon Forceps, working length 6 cm, slender
131100 same, very delicate
- 132011** TROELTSCH Ear Dressing Forceps, delicate, 11 cm
132013 same, 13 cm
- 132314** LUCAE Ear Dressing Forceps, bayonet, 14 cm
132324 same, very delicate
- 132316** JANSEN Ear Dressing Forceps, bayonet, 16 cm
132326 same, very delicate

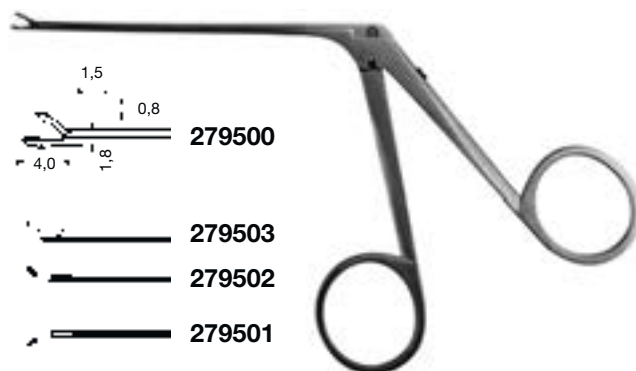
- 126000 HARTMANN Ear Forceps, working length 8 cm, straight, serrated
- 126300 DUCKBILL Ear Forceps, working length 8 cm, flat jaws, serrated
- 127001 HARTMANN Ear Forceps, working length 8 cm, straight,
round cup jaws 1.5 mm Ø
- 127002 same, round cup jaws 2.0 mm Ø
- 127003 same, round cup jaws 2.5 mm Ø
- 127004 same, round cup jaws 3.0 mm Ø
- 127500 HARTMANN-HOFFMANN Ear Forceps, working length 8 cm,
round cupped through-cutting jaws, 2.0 mm Ø, straight



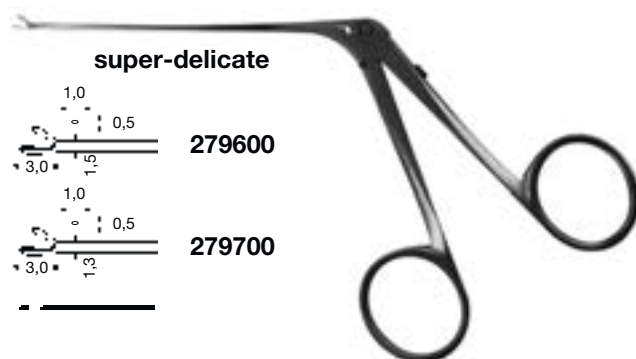
- 128000 STRUEMPEL Ear Forceps, working length 8 cm,
oval cup-shaped jaws, straight
- 128001 same, 45° upcurved
- 128002 same, 90° upcurved
- 129000 WULLSTEIN-BLAKESLEY Ear Forceps,
tube shaft, working length 10 cm, straight



Micro Ear Forceps



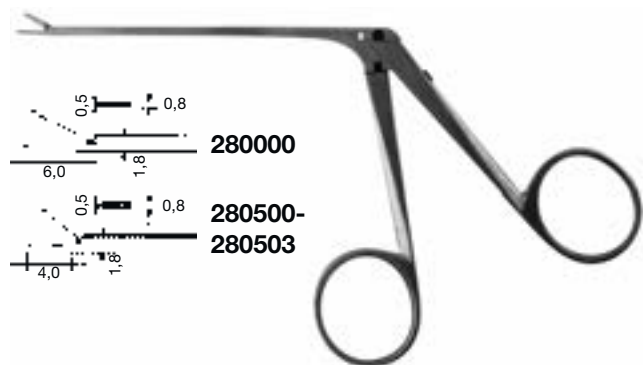
- 279500 Micro Ear Forceps, oval cupped jaws, working length 8 cm, straight
- 279501 same, curved to left
- 279502 same, curved to right
- 279503 same, curved up



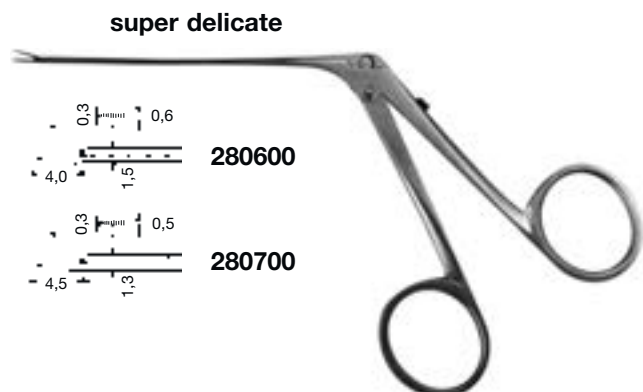
- 279600 Micro Ear Forceps, very delicate, oval cupped jaws, working length 8 cm, straight
- 279700 same, super delicate, straight



- 279800 Micro Ear Forceps, working length 9 cm, oval cupped jaws, delicate, straight



- 280000** HARTMANN Micro Ear Forceps, delicate, serrated, working length 8 cm, straight, 0.8 x 6 mm
- 280500** same, serrated, straight, 0.8 x 4 mm
- 280501** same, curved to left
- 280502** same, curved to right
- 280503** same, curved up

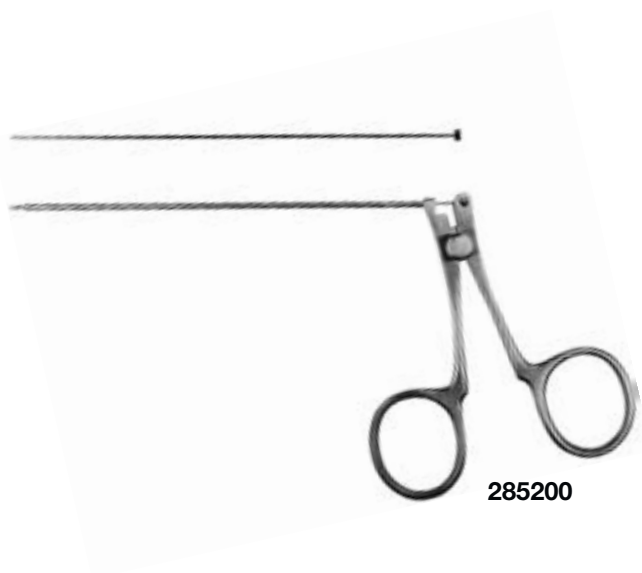


- 280600** Micro Ear Forceps, FISCH type, very delicate, straight, serrated, 0.6 x 4 mm, working length 8 cm, thickness of shaft 1.5 mm
- 280700** Micro Ear Forceps, super delicate, straight, serrated, 0.5 x 4.5 mm, working length 8 cm, thickness of shaft 1.3 mm



- 281500** HOUSE Micro Ear Forceps, very delicate, serrated, tube shaft, working length 8 cm, straight

Ventilation Tube Inserters

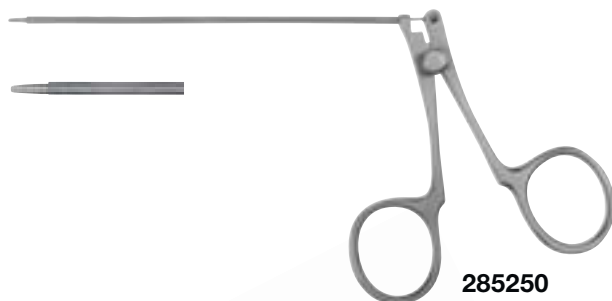


285200 Vent Tube Inserter, 15.5 cm, with each of 1 mandrin 1.0 mm and 1.2 mm Ø

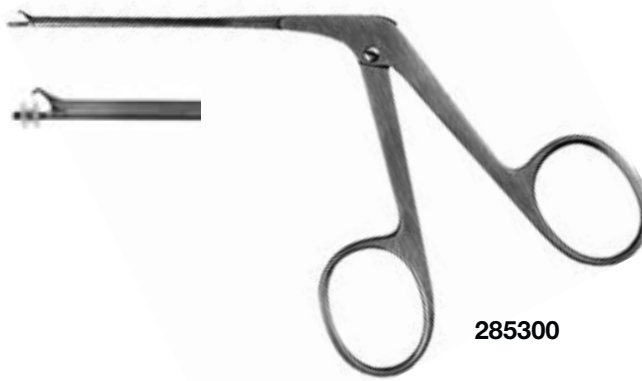
285209 Mandrin only for 285200, 0.9 mm Ø

285210 same, 1.0 mm Ø

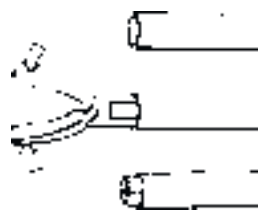
285212 same, 1.2 mm Ø



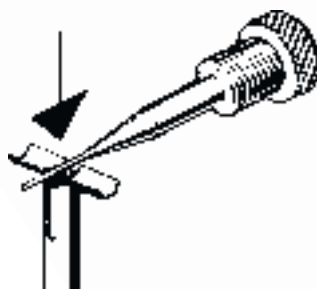
285250 MORGAN Type Myringotomy Tube Inserter



285300 Vent Tube Inserter Forceps, for tubes with 0.95 mm Lumen and more



285600



285700

285600 T-Tube Inserter, black finish, 18.5 cm length

285700 T-Tube Inserter.
Adjustment to the required setting (3 steps), allows
for the precise insertion of 6, 9 and 12 mm T-Tubes

Temporal Bone Laboratory



- ✓ The bone can be settled easily in all positions.
- ✓ Ideal for temporal bone laboratory and courses

Temporal Bone Holder		Recommended Accessories for Temporal Bone Holder	
299500	Temporal bone holder, "Würzburg Type"	299500	Temporal bone holder
		261700	PLESTER rasparatory
		255008	Micro pick 90°, 0.8 mm
		253600	PLESTER sickle knife
		250003	ROSEN round knife, 2 mm
		254600	WULLSTEIN needle, slight curved
		260000	ROSEN elevator
		265502	HOUSE suction adaptor
			HOUSE suction cannula,
		266108	0.8 mm
		266115	1.5 mm
		266120	2.0 mm
		429003	Scalpel handle no. 3
		429011	Scalpel blades, size 11, 100 pcs.
		289702	Steri-case with magnetic rack

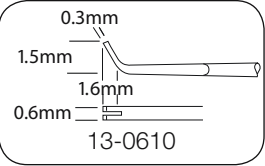
Applicators,
Curettes

Dubenstein Phenol Applicator

Catalog Number	Description	Overall Length	Finish
13-0610	Round, Knurled Handle	157mm/6.2"	Ebony



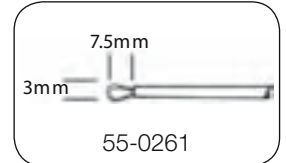
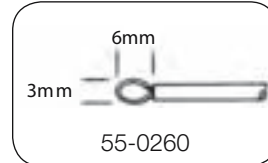
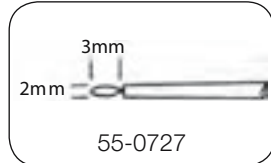
13-0610



Wax Currettes – Billeau Ear

55-0260

Catalog Number	Description	Size	Overall Length
55-0727	Straight Round, Knurled Handle	Small	160mm/6.3"
55-0260	Straight Round, Knurled Handle	Medium	160mm/6.3"
55-0261	Straight Round, Knurled Handle	Large	160mm/6.3"



Wax Currettes – Disposable

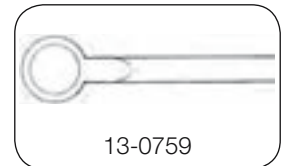
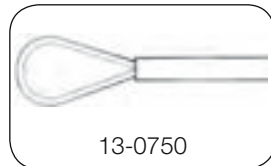
Polypropylene Handles/Stainless Steel Shafts (3" Long)

Sterile Package

13-0750

Catalog Number	Description	Units per Box
13-0750	Billeau Wax Curette, Small	6
13-0751	Billeau Wax Curette, Medium	6
13-0752	Billeau Wax Curette, Large	6
13-0755	Shapleigh Wax Curette, Small	6
13-0756	Shapleigh Wax Curette, Large	6
13-0759	Buck Wax Curette, Size 0	6
13-0760	Buck Wax Curette, Size 1	6
13-0761	Buck Wax Curette, Size 2	6
13-0762	Buck Wax Curette, Size 3	6

U.S. Patent No. D233,077



Ventilation Tube Inserters



13-0546

Morgan Ventilation Tube Inserters

Catalog Number	Size	Shaft Diameter	Shaft Length	Material	Finish
13-0546	Small	0.9mm/0.04"	106mm/4.2"	Stainless Steel	Vapor Blast
13-0547	Medium	1mm/0.04"	106mm/4.2"	Stainless Steel	Vapor Blast
13-0548	Large	1.2mm/0.05"	106mm/4.2"	Stainless Steel	Vapor Blast



13-1413

Myringotomy Case

Catalog Number	Description	Dimensions
13-1413	Holds 6 ear specula, 3 alligators, 3 suction tubes, and 6 picks. Large pocket to hold larger miscellaneous instruments. Includes lid and finger mat.	10" x 2.5" x 10.5"



13-0549

Richards T-Tube Inserters

Catalog Number	Shaft Diameter	Shaft Length	Material	Finish
13-0549	1.2mm/0.047"	97.5mm/3.8"	Stainless Steel	Satin



13-0710

Ventilation Tube Inserter Polypropylene Handle/Stainless Steel Shaft Sterile Package

Catalog Number	Description	Units per Box
13-0710	Disposable Ventilation Tube Inserter (1.14mm/0.45" I.D. Ventilation Tubes)	6

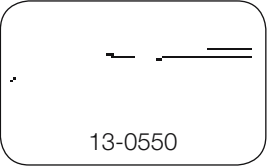
U.S. Patent No. 3,897,786

Richards Universal T-Tube Inserter

Catalog Number	Shaft Length	Material	Overall Length	Finish
13-0550	80mm/3.15"	Stainless Steel	200mm/7.8"	Satin



13-0550



13-0550

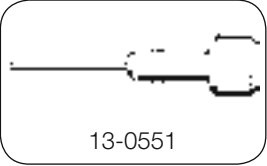
Richards Universal T-Tube Inserter (Inserter Stylus)

For use with 13-0550.

Catalog Number	Handle Style	Tip Diameter	Overall Length	Finish
13-0551	Round, Knurled	11mm/0.43"	26mm/1.02"	Vapor Blast



13-0551



13-0551

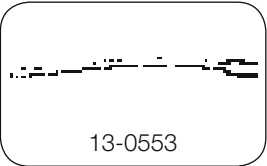
Standard Tip for Universal T-Tube Inserter

For use with 13-0550.

Catalog Number	Handle Style	Tip Diameter	Shaft Length	Finish
13-0553	Round, Knurled	1.7mm/0.067"	80mm/3.1"	Vapor Blast



13-0553



13-0553

Ear Specula



13-0640

Richards Ear Specula

Catalog Number	Diameter	Material	Finish
7013-0629	2.5mm	Stainless Steel	Ebony
13-0630	3mm	Stainless Steel	Ebony
13-0634	3.5mm	Stainless Steel	Ebony
13-0640	4mm	Stainless Steel	Ebony
13-0645	4.5mm	Stainless Steel	Ebony
13-0650	5mm	Stainless Steel	Ebony
13-0655	5.5mm	Stainless Steel	Ebony
13-0660	6mm	Stainless Steel	Ebony
13-0665	6.5mm	Stainless Steel	Ebony
13-0670	7mm	Stainless Steel	Ebony
13-0675	7.5mm	Stainless Steel	Ebony
13-0680	8mm	Stainless Steel	Ebony

2.5mm



7013-0629

3mm



13-0630

3.5mm



13-0634

4mm



13-0640

4.5mm



13-0645

5mm



13-0650

5.5mm



13-0655

6mm



13-0660

6.5mm



13-0665

7mm



13-0670

7.5mm



13-0675

8mm



13-0680

Disposable Ear Specula

Polypropylene

Sterile Package

Catalog Number	Description	Size	Units per Box
13-0698	Child Ear Specula, Round/Nonbeveled	3mm	6
13-0699	Child Ear Specula, Oval/Beveled	4mm	6
13-0700	Adult Ear Specula, Oval/Beveled	5mm	6
13-0702	Adult Ear Specula, Oval/Beveled	6mm	6



13-0699

Richards Speculum Holder

Catalog Number	Description	Material	Finish
13-0070	Adjusts to any standard ear speculum. Fits into the sliding bar clamp on the edge of the operating table.	Stainless Steel	Ebony



13-0070

Schuknecht Modification of Speculum Holder

Catalog Number	Description	Material	Finish
13-0072	Adjusts to any standard ear speculum. Fits into the sliding bar clamp on the edge of the operating table.	Stainless Steel	Ebony



13-0072

Richards C-Clamp for Speculum Holder

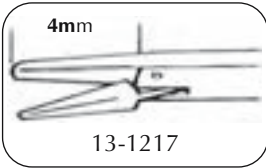
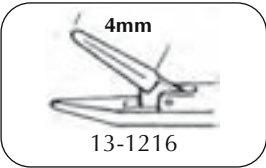
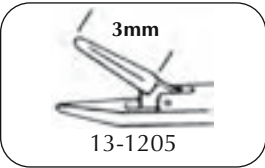
Catalog Number	Description	Material	Finish
13-0074	Attaches to the Operating Table	Stainless Steel	Chrome



13-0074

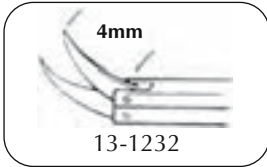
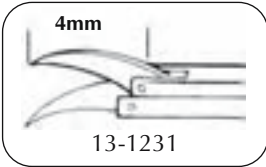
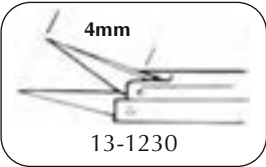
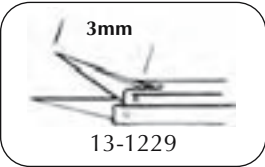
Cawthorne Alligator Forceps

Catalog Number	Name	Jaw Length	Shaft Length	Finish
13-1205	Straight, Smooth	3mm	70mm/2.8"	Ebony
13-1216	Straight, Smooth	4mm	70mm/2.8"	Ebony
13-1217	Straight, Smooth, Opens to Left	4mm	70mm/2.8"	Ebony



Cawthorne Delicate Scissors

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1229	Straight	3mm	70mm/2.8"	Ebony
13-1230	Straight	4mm	70mm/2.8"	Ebony
13-1231	Curved Left, Sharp	4mm	70mm/2.8"	Ebony
13-1232	Curved Right, Sharp	4mm	70mm/2.8"	Ebony

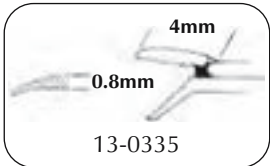
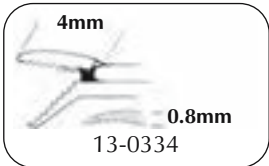
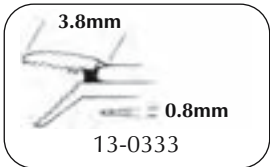
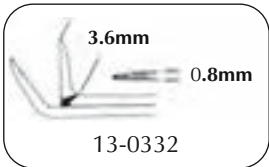
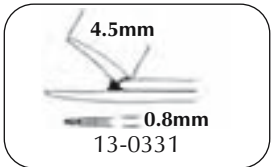
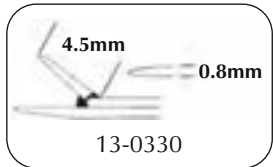


Gold Gator Forceps



13-0331

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-0330	Straight, Smooth	4.5mm	68mm/2.7"	Ebony, Gold Plated Rings
13-0331	Straight, Serrated	4.5mm	68mm/2.7"	Ebony, Gold Plated Rings
13-0332	Curved Up, Serrated	3.5mm	68mm/2.7"	Ebony, Gold Plated Rings
13-0333	Curved Down, Serrated	3.7mm	68mm/2.7"	Ebony, Gold Plated Rings
13-0334	Curved Left, Serrated	4mm	68mm/2.7"	Ebony, Gold Plated Rings
13-0335	Curved Right, Serrated	4mm	68mm/2.7"	Ebony, Gold Plated Rings



Ear Forceps

(cont.)

Hartmann Alligator Forceps

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1211	Straight, Serrated	8mm	70mm/2.8"	Ebony
13-1227	Straight, Serrated	7mm	70mm/2.8"	Va por Blast
13-1228	Straight, Serrated	10mm	70mm/2.8"	Va por Blast
13-1201	Curved Left, Serrated	3mm	70mm/2.8"	Ebony
55-0277	Straight, Serrated	9mm	80mm/3.1"	Va por Blast
13-1200	Straight, Serrated	3mm	70mm/2.8"	Ebony
13-1202	Curved Right, Serrated	3mm	70mm/2.8"	Ebony
13-1210	Straight, Serrated	4mm	70mm/2.8"	Ebony



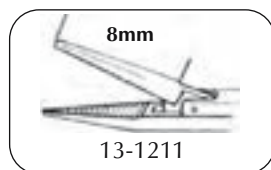
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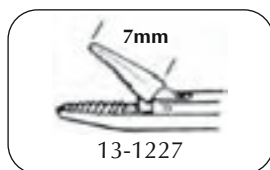
55-0277



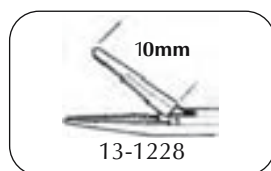
13-1200



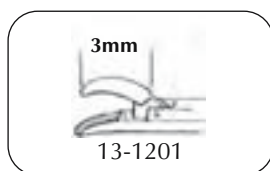
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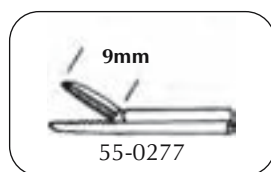
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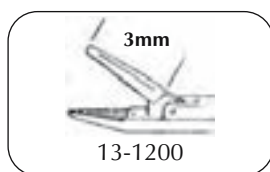
13-1228



13-1201



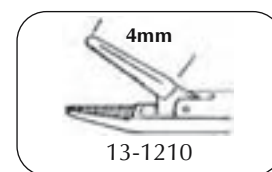
55-0277



13-1200



13-1202



13-1210

House Wire Closure Forceps

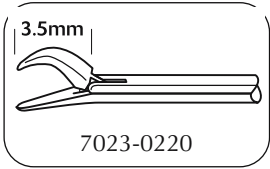
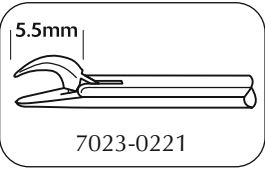
Stainless Steel

Matte finish

Units per Box: 1

Catalog Number	Description	Jaw Length	Shaft Length
7023-0221	Large Crimper	5.5mm	3.2"
7023-0220	Small Crimper	3.5mm	2.66"

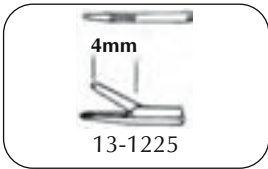
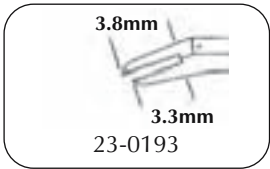
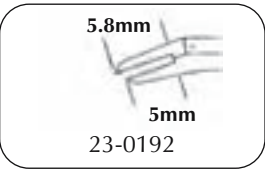
Designed for John House, M.D., Los Angeles, CA.



7023-0221

McGee Wire Closure Forceps

Catalog Number	Description	Shaft Length	Finish
23-0192	Large, Smooth	70mm/2.8"	Ebony
23-0193	Small, Smooth	70mm/2.8"	Ebony
13-1225	Angled Down, Smooth	70mm/2.8"	Ebony



23-0192

Ear Forceps

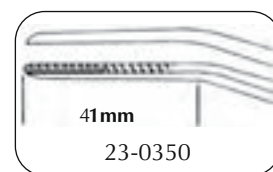
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23-0350

Meltzer-Ronis Wire Crimper

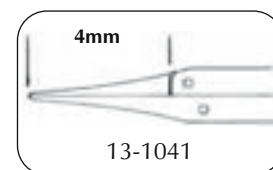
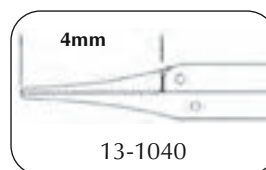
Catalog Number	Description	Handle Style	Shaft Description	Overall Length	Finish
23-0350	41mm Straight Jaw With Groove	Straight	Angled Shaft	152mm/6"	Ebony



13-1040

Mini-McGee Forceps

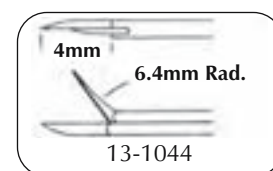
Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1040	Straight, Serrated	4mm	80mm/3.1"	Ebony, Electropolished Rings
13-1041	Straight, Smooth	4mm	80mm/3.1"	Ebony, Electropolished Rings



13-1044

Mini-McGee Scissors

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1044	Straight, Sharp	4mm	80mm/3.1"	Ebony, Electropolished Handle

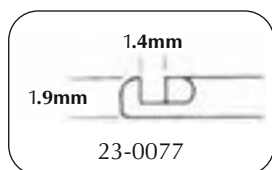
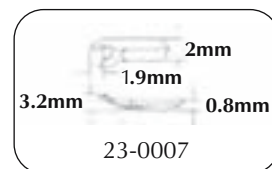
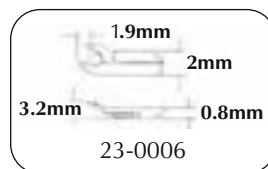
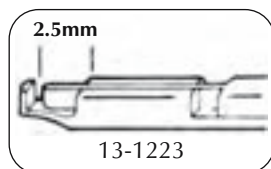
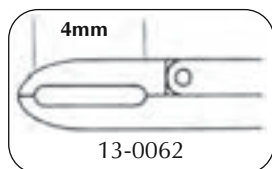


Nippers

Catalog Number	Name	Description	Jaw Length	Shaft Length	Finish
13-0062	Ta bb Crura Nippers	Straight	4mm	80mm/3.1"	Ebony
13-1223	Richards Malleus Nippers	Straight	2.5mm	70mm/2.8"	Ebony
23-0006	Fisch Crura Nippers	Curved Left		76mm/3"	Ebony
23-0007	Fisch Crura Nippers	Curved Right		76mm/3"	Ebony
23-0077	House Type Malleus Nippers	Straight	1.4mm	80mm/3.1"	Ebony



13-1223

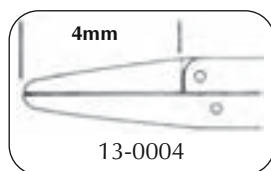
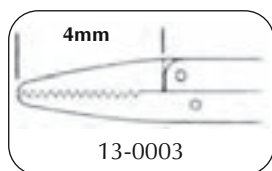


Posigators

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-0003	Straight, Serrated, Positive Locking Jaws	4mm	70mm/2.8"	Ebony, Electropolished Rings
13-0004	Straight, Smooth, Positive Locking Jaws	4mm	70mm/2.8"	Ebony, Electropolished Rings



13-0003



Ear Forceps

(cont.)



13-0128

Protective Sleeve

Use with alligator forceps to protect shaft and tips.

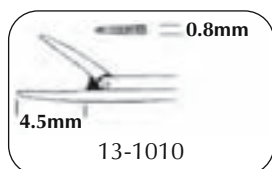
Catalog Number	Material	Overall Length
13-0128	Autoclavable Fluoroplastic	102mm/4"



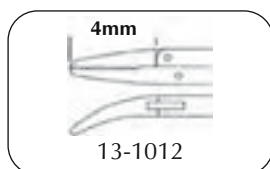
13-1016

Richards Alligator Forceps

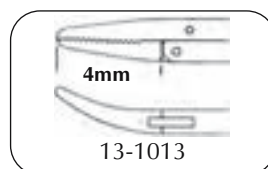
Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1010	Straight, Serrated	4.5mm	70mm/2.8"	Ebony
13-1012	Curved Left, Serrated	4mm	70mm/2.8"	Ebony
13-1013	Curved Right, Serrated	4mm	70mm/2.8"	Ebony
13-1014	Curved Up, Serrated	3.5mm	70mm/2.8"	Ebony
13-1015	Curved Down, Serrated	3.8mm	70mm/2.8"	Ebony
13-1016	Straight, Smooth	4.5mm	70mm/2.8"	Ebony
23-0038	Straight, Serrated	8mm	80mm/3.1"	Ebony
23-0103	Straight, Serrated, Extra Long	4mm	152mm/6"	Ebony
7023-0050	Straight, Serrated (Office Grade)	5.3mm	70mm/2.8"	Ebony



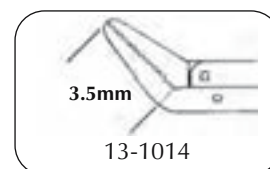
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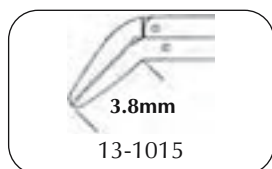
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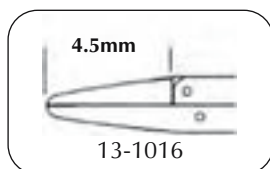
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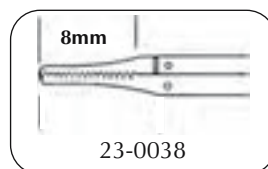
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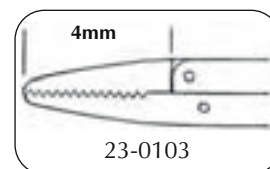
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13-1016



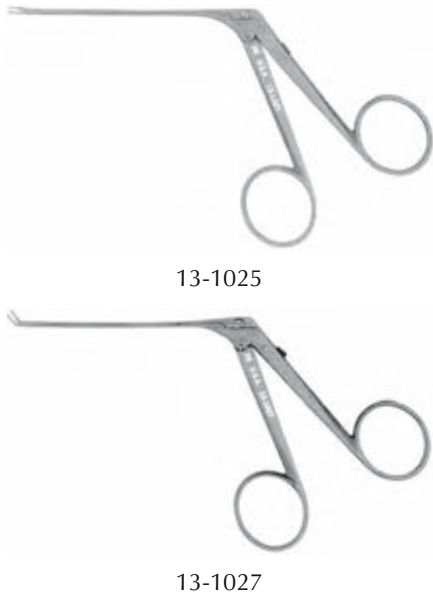
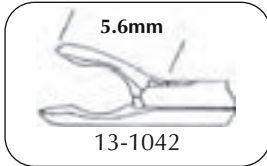
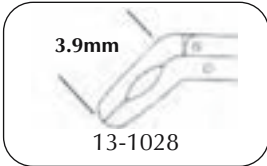
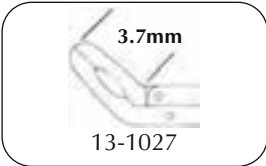
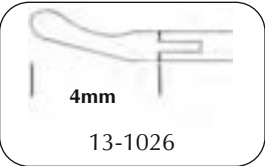
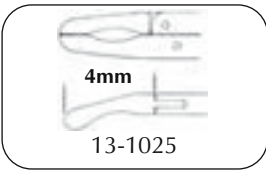
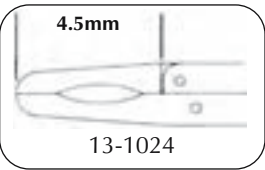
23-0038



23-0103

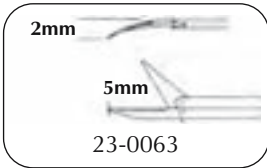
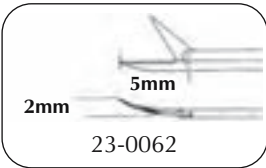
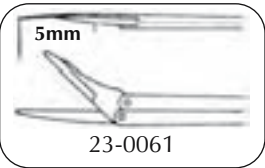
Richards Cupped Forceps

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1024	Straight	4.5mm	70mm/2.8"	Ebony
13-1025	Curved Left	4mm	70mm/2.8"	Ebony
13-1026	Curved Right	4mm	70mm/2.8"	Ebony
13-1027	Angled Up 45°	3.7mm	70mm/2.8"	Ebony
13-1028	Curved Down	3.9mm	70mm/2.8"	Ebony
13-1042	Straight, Mini-McGe e	5.6mm	70mm/2.8"	Ebony



Richards Delicate Ear Scissors

Catalog Number	Jaw Length	Shaft Length	Finish
23-0061	5mm	80mm/3.1"	Ebony
23-0062	5mm	68mm/2.7"	Ebony
23-0063	5mm	80mm/3.1"	Ebony



Ear Forceps

(cont.)

Richards Wire Closure Forceps



13-1226

Catalog Number	Description	Shaft Length	Finish
13-1226	Angled Down, Smooth	70mm/2.8"	Ebony

1mm



3mm

13-1226

Schuknecht Wire Closure Forceps



13-1080

Catalog Number	Description	Shaft Length	Finish
13-1080	Smooth	68mm/2.7"	Ebony

3.6mm



13-1080

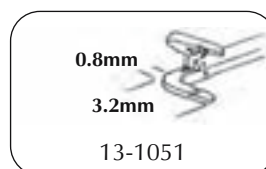
Seda Wire Closure Forceps

Catalog Number	Description	Shaft Length	Finish
13-1051	90° Jaw Angled Left	68mm/2.7"	Ebony
13-1050	90° Jaw Angled Right	68mm/2.7"	Ebony

0.8mm

3.2mm

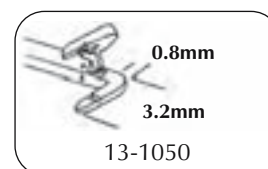
13-1051



0.8mm

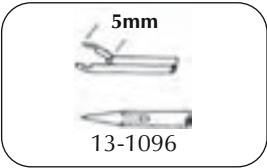
3.2mm

13-1050



Shah Teflon Piston Introducing Forceps

Catalog Number	Description	Overall Length	Finish
13-1096	5mm Jaws	72mm/2.8"	Ebony



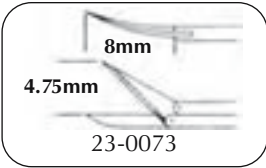
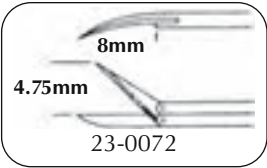
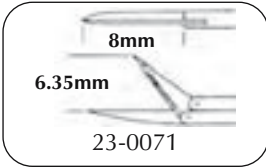
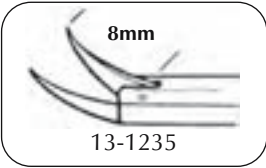
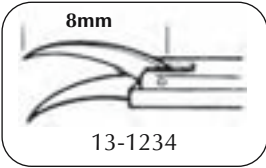
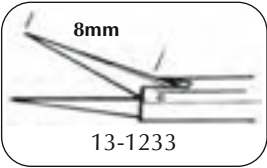
13-1096

Shea Belluci Scissors

Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1233	Straight, Sharp	8mm	70mm/2.8"	Ebony
13-1234	Curved Left, Sharp	8mm	70mm/2.8"	Ebony
13-1235	Curved Right, Sharp	8mm	70mm/2.8"	Ebony
23-0071	Straight, Sharp	8mm	80mm/3.1"	Ebony
23-0072	Curved Left, Sharp	8mm	80mm/3.1"	Ebony
23-0073	Curved Right, Sharp	8mm	80mm/3.1"	Ebony



23-0072

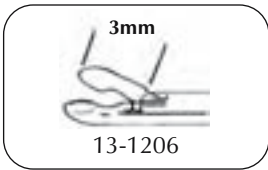




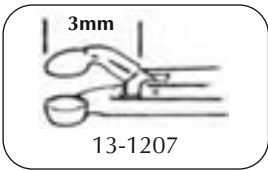
13-1207

Shea Cupped Forceps

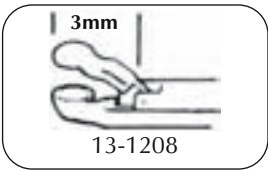
Catalog Number	Description	Jaw Length	Shaft Length	Finish
13-1206	Straight	3mm	70mm/2.8"	Ebony
13-1207	Curved Left	3mm	70mm/2.8"	Ebony
13-1208	Curved Right	3mm	70mm/2.8"	Ebony
13-1209	Curved Up	3mm	70mm/2.8"	Ebony
13-1219	Straight	4mm	70mm/2.8"	Ebony
13-1220	Curved Left	4mm	70mm/2.8"	Ebony
13-1221	Curved Right	4mm	70mm/2.8"	Ebony
13-1222	Curved Up	4mm	70mm/2.8"	Ebony



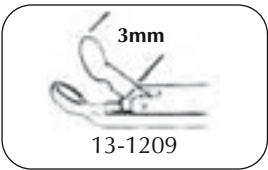
13-1206



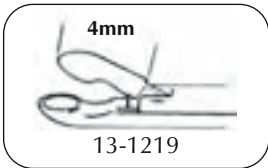
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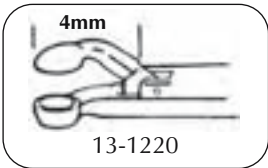
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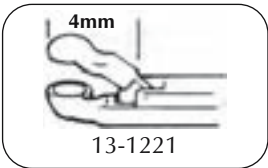
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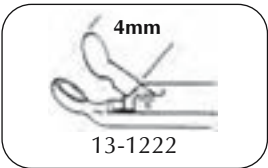
13-1219



13-1220



13-1221



13-1222



7023-5613

OtoView Alligator Scissors

Catalog Number	Description	Material	Finish
7023-5613	Curved Up, Alligator Scissors	Stainless Steel	Ebony



7023-5611



7023-5610

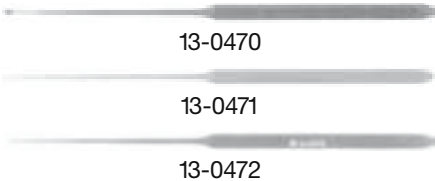
OtoView Cupped Forceps

Stainless Steel

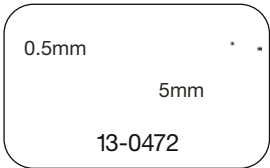
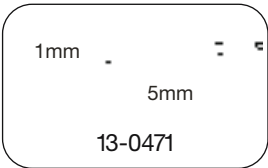
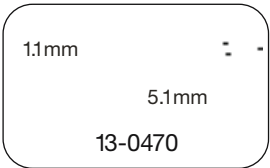
Units per Box: 1

Catalog Number	Description	Finish
7023-5611	Curved Right, Alligator Forceps	Ebony
7023-5610	Curved Left, Alligator Forceps	Ebony
7023-5612	Curved Up, Alligator Forceps	Ebony

Buckingham Footplate Hand Drills



Catalog Number	Name	Size	Overall Length	Finish
13-0470	Round, Knurled Handle, Straight Shaft, Sharp Tip	Large	149mm/5.9"	Ebony
13-0471	Round, Knurled Handle, Straight Shaft, Sharp Tip	Medium	149mm/5.9"	Ebony
13-0472	Round, Knurled Handle, Straight Shaft, Sharp Tip	Small	149mm/5.9"	Ebony



Larkin Hand Perforator



Catalog Number	Description	Overall Length	Finish
13-0462	Round, Knurled Handle, Straight Shaft, Sharp Tip	168mm/6.6"	Ebony



Disposable Ear Suction Tubes

Polypropylene Handles/Stainless Steel Shaft (3" Long)
Sterile Package

Catalog Number	Description	Gauge	Units per Box
13-0718	Red without Bypass	14 (9 Fr.)	6
13-0720	Yellow without Bypass	16 (7 Fr.)	6
13-0722	Black without Bypass	18 (5 Fr.)	6
13-0724	Green without Bypass	20 (3 Fr.)	6
13-0783	Red with Bypass	14 (9 Fr.)	6
13-0785	Yellow with Bypass	16 (7 Fr.)	6
13-0787	Black with Bypass	18 (5 Fr.)	6
13-0789	Green with Bypass	20 (3 Fr.)	6

U.S. Patent No. D234,032



13-0783

Telischi Suctions

Stainless Steel
Matte Finish
Units per Box: 1

Catalog Number	Description
7023-5250	40° Angled Up, 3 Fr.
7023-5251	40° Angled Down.
7023-5252	70° Angled Up, 30 Fr.
7023-5253	70° Angled Down, 3 Fr.
7023-5254	40° Angled Up, 5 Fr.
7023-5255	40° Angled Down, 5 Fr.
7023-5256	70° Angled Up, 5 Fr.
7023-5257	70° Angled Down, 5 Fr.

Designed for Fred F. Telischi, M.D.



7023-5250



7023-5251



7023-5252



13-0800

Foreign Body Removers
Polypropylene Handle/Stainless Steel Shaft (3" Long)

Catalog Number	Description	Sterile Package	Units per Box
13-0800	Operating Room Pack	No	1
13-0811	Emergency Room Pack	Yes	6

Designed for Harold F. Schuknecht, M.D., Boston, MA.
U.S. Patent No. D234,032

Micro-Instrument Wipes

Sterile Package



23-0030

Catalog Number	Description	Units per Box
23-0030	3.5" x 3.5" Nonfibrous Sponge	48

Set-Op Myringotomy Kit

Sterile Package



89-0205

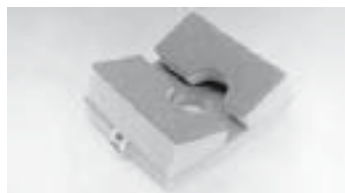
Catalog Number	Description
89-0205	Set-Op Myringotomy Kit, Child Contains: 1 Billeau Wax Curette 1 16 Gauge Suction Needle with Bypass 1 Myringotomy Knife, Sickle Blade, Contoured Handle 1 Ventilation Tube Inserter (For 1.14mm I.D. Tubes) 3 Specula (3mm, 4mm and 5mm)
89-0206	Set-Op Myringotomy Kit, Adult Contains: 1 Billeau Wax Curette 1 16 Gauge Suction Needle with Bypass 1 Myringotomy Knife, Sickle Blade, Contoured Handle 1 Ventilation Tube Inserter (For 1.14mm I.D. Tubes) 3 Specula (4mm, 5mm and 6mm)

Shea Foam Head Supports

Nonsterile



15-0179



15-0180

Catalog Number	Description
15-0179	Child
15-0180	Adult

U.S. Patent No. 3,694,831
Designed for John Shea, M.D., Memphis, TN.

OtoView Double-Ended Elevator

Catalog Number	Material	Finish	Units per Box
7023-5620	Stainless Steel	Ebony	1



7023-5620

OtoView Knives

Stainless Steel

Units per Box: 1

Catalog Number	Name	Finish
7023-5621	OtoView Double-ended Round Knife	Ebony
7023-5622	OtoView Sickle Knife	Ebony
7023-5623	OtoView Triangle Knife	Ebony



7023-5621



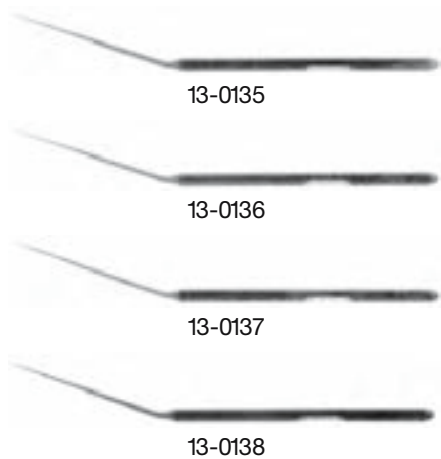
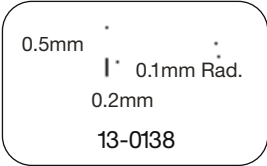
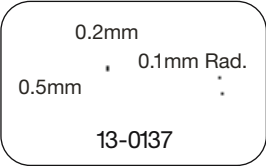
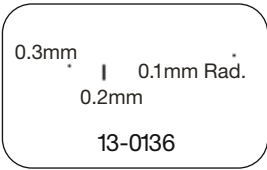
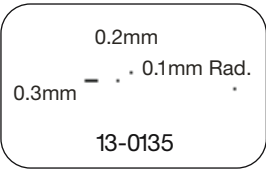
7023-5622



7023-5623

Lippy Footplate Hooks

Catalog Number	Description	Handle Style	Shaft Description	Overall Length	Finish
13-0135	Angled Up 90°, Anterior	Round, Knurled	Angled 20°	170mm/6.7"	Ebony
13-0136	Angled Down 90°, Posterior	Round, Knurled	Angled 20°	170mm/6.7"	Ebony
13-0137	Angled Up 90°, Anterior, Large	Round, Knurled	Angled 20°	170mm/6.7"	Ebony
13-0138	Angled Down 90°, Posterior, Large	Round, Knurled	Angled 20°	170mm/6.7"	Ebony

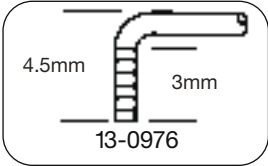




13-0976

Applebaum Measuring Rod

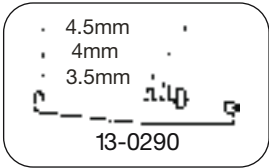
Catalog Number	Description	Depth Marking	Handle Style	Overall Length	Finish
13-0976	Straight, Angled 90°	0.5mm Increments	Round, Knurled	150mm/5.9"	Ebony



13-0290

Richards Piston Depth Gauge

Catalog Number	Description	Depth Marking	Handle Style	Overall Length	Finish
13-0290	Straight	3.5, 4, 4.5mm - Staggered Around Shaft	Round, Knurled	174mm/6.8"	Ebony



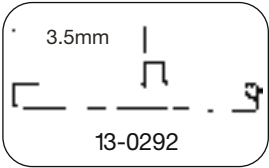
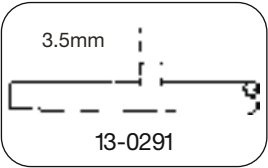
13-0291



13-0292

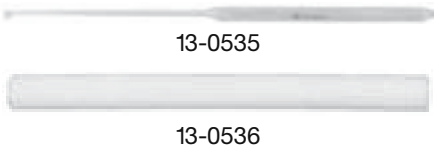
Schuknecht Depth Gauges

Catalog Number	Description	Depth Marking	Handle Style	Overall Length	Finish
13-0291	.6mm Angled 20°	3.5mm	Round, Knurled	154mm/6.1"	Ebony
13-0292	.8mm Angled 20°	3.5mm	Round, Knurled	154mm/6.1"	Ebony



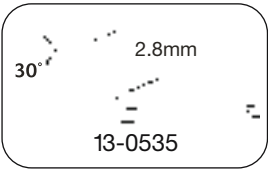
Miscellaneous

(cont.)



Buckingham Mirror with Sleeve

Catalog Number	Description	Handle Style	Angle	Overall Length	Finish
13-0535	Straight	Round, Knurled	Mirror Angle 30°	152mm/6"	Vapor Blast
13-0536	Protective Sleeve for Buckingham Mirror,			115mm/4.5"	
	White Fluoroplastic				



Vein Press

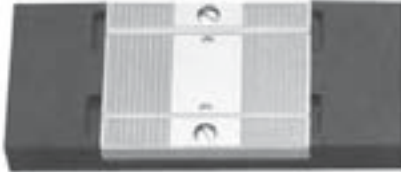
Catalog Number	Description	Material	Overall Length
13-0146	Press Diameter 0.62" x 0.62"	Stainless Steel	114mm/4.5"



13-0130

Austin Surgical Cutting Block

Catalog Number	Material	Diameter
13-0130	Black Delrin	63.5mm/2.5"

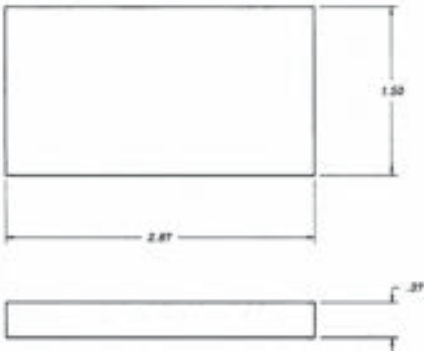


7013-5800

Goldenberg Cutting Block

Catalog Number	Material	Units per Box
7013-5800	Stainless Steel, Delrin	1

Designed for Robert Goldenberg, M.D., Dayton, OH.



13-0131

House Delrin Cutting Block

Catalog Number	Material	Size
13-0131	White Delrin	2.87" x 1.5"



13-0289

Piston Cutting Jig

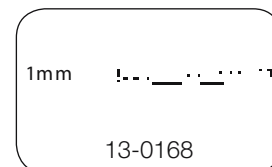
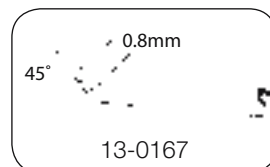
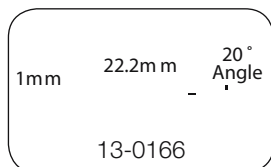
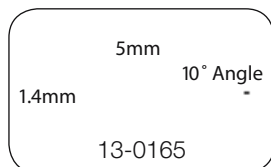
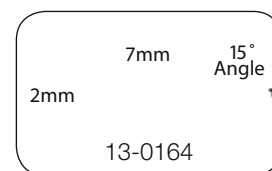
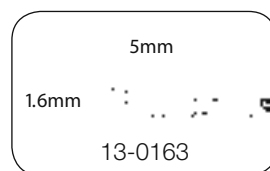
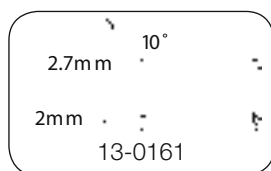
Catalog Number	Material	Overall Length
13-0289	Stainless Steel	86mm/3.4"

Antoli-Candela Set

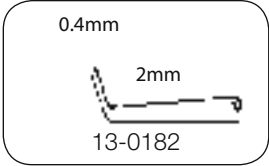
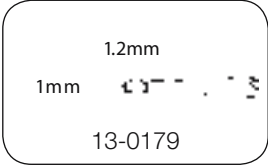
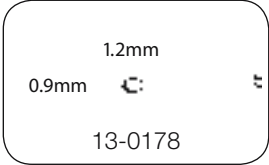
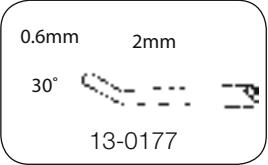
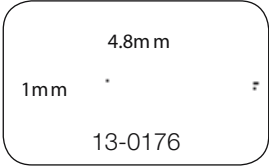
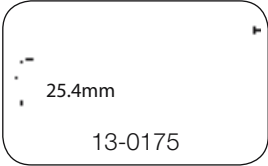
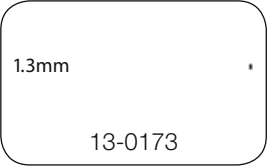
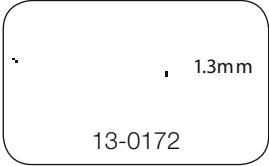
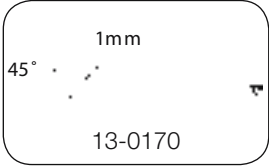
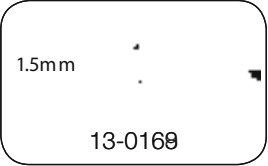
Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0190	Complete Set				
13-0161	Shea Knife	Round, Knurled	Straight	Angled 10°	165mm/ 6.5"
13-0162	Right Angle Knife	Round, Knurled	Straight	Sharp	165mm/ 6.5"
13-0163	Curved Knife	Round, Knurled	Straight	Sharp	165mm/ 6.5"
13-0164	Angled Elevator Blade	Round, Knurled	Straight	Tip Angled 15°	165mm/ 6.5"
13-0165	Elevator, Small	Round, Knurled	Straight	Tip Angled 10°	165mm/ 6.5"
13-0166	Elevator, Right	Round, Knurled	Angled 20°	Straight Tip	165mm/ 6.5"
13-0167	Footplate Mucosa Pick	Round, Knurled	Straight	Tip Angled 45°	165mm/ 6.5"
13-0168	Right Angle Pick, 1mm (0.039")	Round, Knurled	Straight	Tip Angled 90°	165mm/ 6.5"
13-0169	Right Angle Pick, 1.5mm (0.060")	Round, Knurled	Straight	Tip Angled 90°	165mm/ 6.5"
13-0170	Obtuse Angle Pick, 1mm	Round, Knurled	Straight	Tip Angled 45°	165mm/ 6.5"
13-0171	Obtuse Angle Pick, 1.5mm	Round, Knurled	Straight	Tip Angled 45°	165mm/ 6.5"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0172	Angled Pick, Down Right	Round, Knurled	Angled 10°	Tip Angled Down, Right	165mm/ 6.5"
13-0173	Angled Pick, Down Left	Round, Knurled	Angled 10°	Tip Angled Down, Right	165mm/ 6.5"
13-0174	Angled Pointed Driver	Round, Knurled	Straight	Tip Angled 15°, Sharp	165mm/ 6.5"
13-0175	Angled Pointed Driver	Round, Knurled	Straight	Tip Angled 15°, Sharp	165mm/ 6.5"
13-0176	Curved Pick	Round, Knurled	Straight	Curved Tip	165mm/ 6.5"
13-0177	Blunt Probe	Round, Knurled	Straight	Tip Angled 30°	165mm/ 6.5"
13-0178	Small Window Curette	Flat Handle	Straight	—	165mm/ 6.5"
13-0179	Middle Angle Curette	Flat Handle	Angled 10°	—	165mm/ 6.5"
13-0180	Large Curette	Flat Handle	Angled 10°	—	165mm/ 6.5"
13-0181	Elevator	Round, Knurled	Straight	Cup Angled Up	165mm/ 6.5"
13-0182	Flat Curette	Round, Knurled	Straight	Angled Cup	165mm/ 6.5"



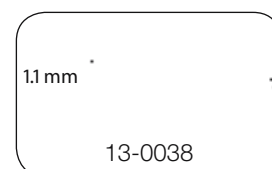
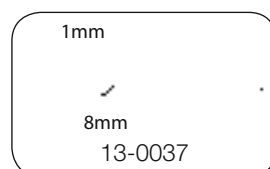
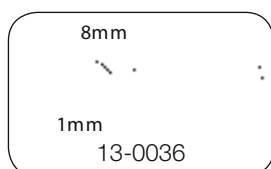
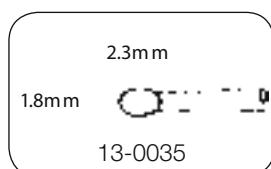
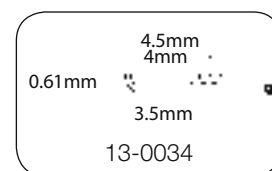
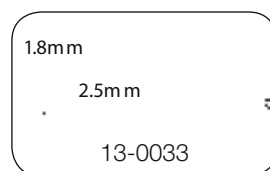
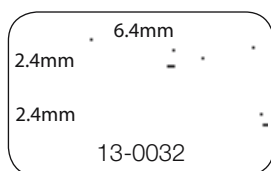
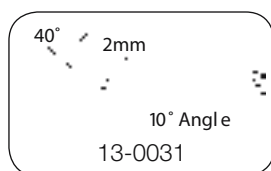
Antoli-Candela Set (continued)



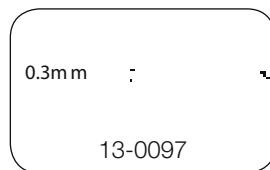
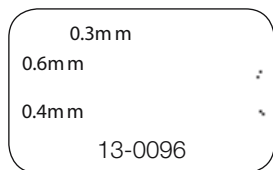
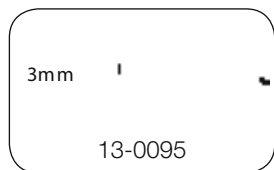
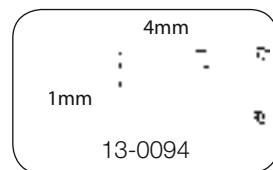
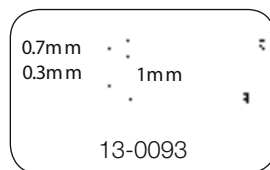
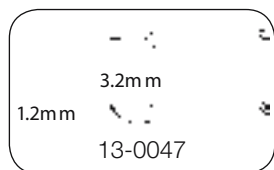
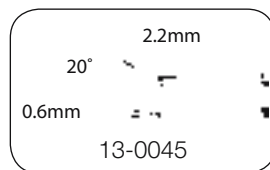
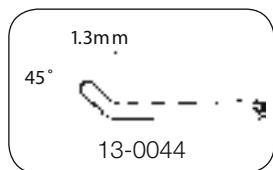
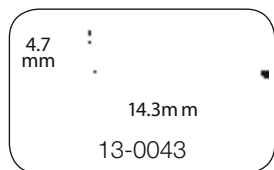
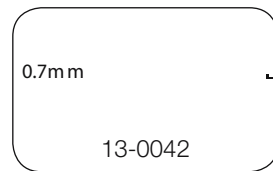
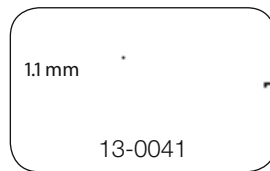
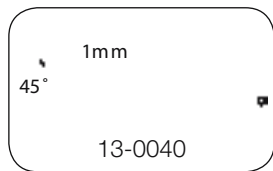
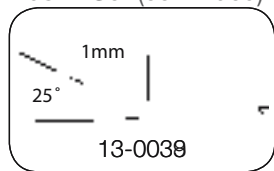
Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0051	Complete Set				
13-0031	Incising Knife Elevator	Round, Knurled	Angled 10°	Tip Angled 40°	165mm/ 6.5"
13-0032	Duckbill Knife Elevator	Round, Knurled	Straight	Blunt Tip, Angled Up	165mm/ 6.5"
13-0033	Right Angle Elevator	Round, Knurled	Straight	Tip Angled Up	165mm/ 6.5"
13-0034	Measuring Rod	Round, Knurled	Straight	Straight Tip	168mm/ 6.6"
13-0035	Curette	Flat Handle	Angled 10°	—	152mm/ 6"
13-0036	Excavator, Right	Round, Knurled	Straight	Right Tip	165mm/ 6.5"
13-0037	Excavator, Left	Round, Knurled	Straight	Left Tip	165mm/ 6.5"
13-0038	Tympanoplasty Pick	Round, Knurled	Straight	Curved Tip	165mm/ 6.5"
13-0039	Angled Pick	Round, Knurled	Straight	Tip Angled 25°	165mm/ 6.5"
13-0040	Angled Pick	Round, Knurled	Straight	Tip Angled 45°	165mm/ 6.5"
13-0041	Long Angled Pick	Round, Knurled	Straight	Angled Tip	165mm/ 6.5"
13-0042	Short Angled Pick	Round, Knurled	Straight	Angled Tip	165mm/ 6.5"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0043	Attic Dissector	Round, Knurled	Straight	Tip Angled Up	165mm/ 6.5"
13-0044	Probe	Round, Knurled	Straight	Tip Angled 45°	168mm/ 6.6"
13-0045	Incudostapedial Knife	Round, Knurled	Straight	Blade Angled 20°	168mm/ 6.6"
13-0046	Chisel	Round, Knurled	Straight	Straight Tip	165mm/ 6.5"
13-0047	Small Sickle Knife	Round, Knurled	Straight	Curved Blade	165mm/ 6.5"
13-0092	Curette	Round, Knurled	Angled 10°	Angled 10°	152mm/ 6"
13-0093	Dissection Knife	Round, Knurled	Straight	Angled 45°	165mm/ 6.5"
13-0094	Dissection Knife	Round, Knurled	Straight	Angled 90°	165mm/ 6.5"
13-0095	Angled Pick	Round, Knurled	Straight	Angled Tip	165mm/ 6.5"
13-0096	Footplate Elevator	Round, Knurled	Angled 10°	Tip Angled Up	165mm/ 6.5"
13-0097	Angled Pick	Round, Knurled	Straight	Angled Tip	165mm/ 6.5"
13-0052	Sterilizing Case for 22 Instruments				



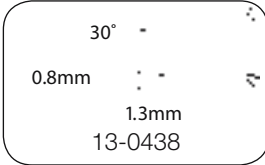
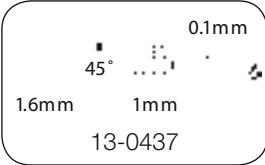
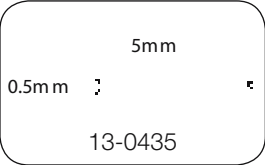
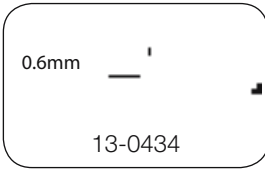
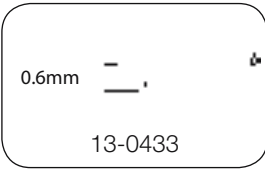
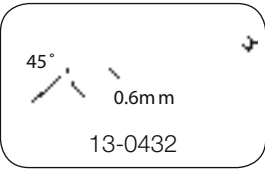
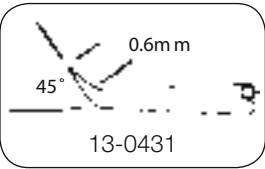
Austin Set (continued)



Farrior Set,
Goldman Set

Farrior Set
Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0430	Complete Set				
13-0431	Pick	Round, Knurled	Shaft Angled 30°	Tip Angled Right 45°	
13-0432	Pick	Round, Knurled	Shaft Angled 30°	Tip Angled Left 45°	
13-0433	Angled Pick	Round, Knurled	Shaft Angled 30°	Tip Angled Down	
13-0434	Angled Pick	Round, Knurled	Shaft Angled 30°	Tip Angled Up	

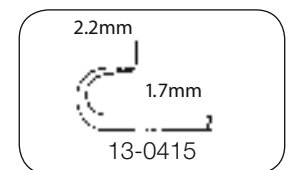
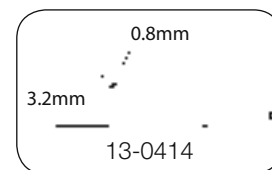
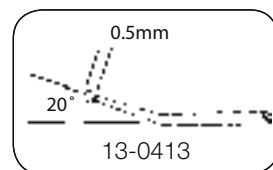
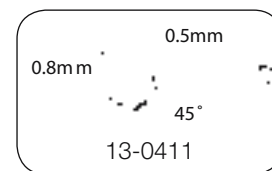
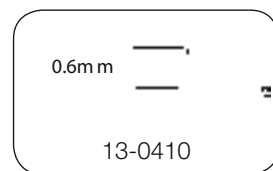
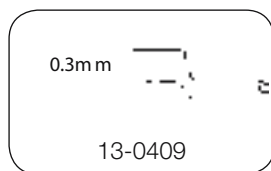
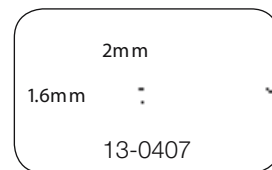
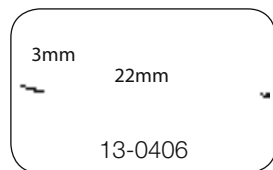
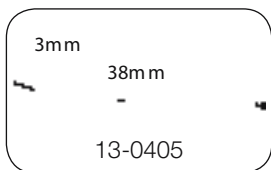
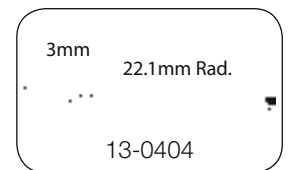
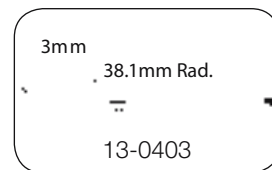
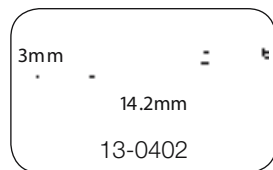
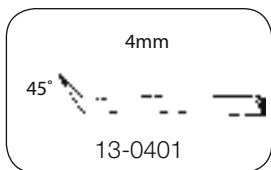


Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0435	Rasp	Round, Knurled	Shaft Angled 30°	Straight Tip, 0.5mm	
13-0436	Rasp	Round, Knurled	Shaft Angled 30°	Straight Tip, 0.6mm	
13-0437	Tamper	Round, Knurled	Shaft Angled 30°	Tip Angled 45°	
13-0438	Chisel	Round, Knurled	Shaft Angled 30°	Straight Tip	

Goldman Set
Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0425	Complete Set				
13-0401	Knife	Round, Knurled	Straight	Angled 45°	
13-0402	Separator	Round, Knurled	Straight	Blunt Tip	
13-0403	Curved Pick	Round, Knurled	Straight	Curved Tip, Dull	
13-0404	Curved Pick	Round, Knurled	Straight	Curved Tip, Dull	
13-0405	Curved Pick	Round, Knurled	Straight	Curved Tip, Sharp	
13-0406	Curved Pick	Round, Knurled	Straight	Curved Tip, Sharp	
13-0407	Curette, Medium	Round, Knurled	Straight	—	
13-0408	Curette, Large	Round, Knurled	Straight	—	

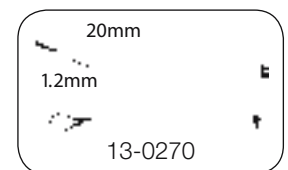
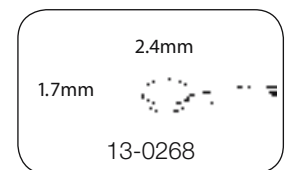
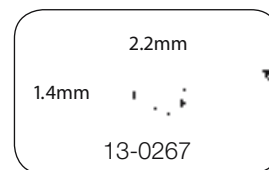
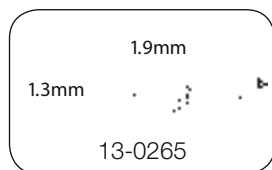
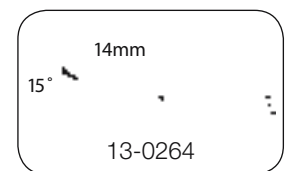
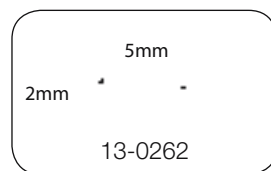
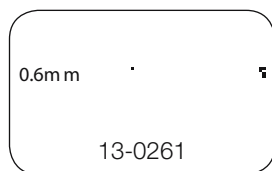
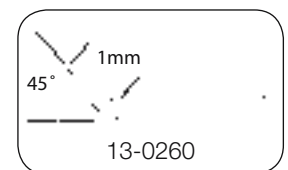
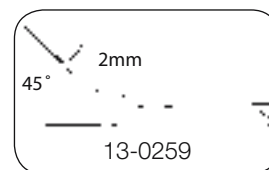
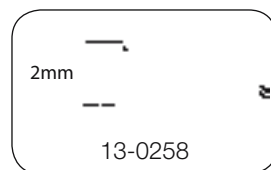
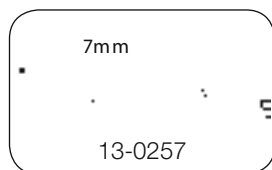
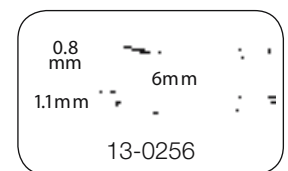
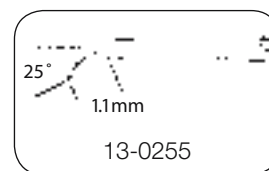
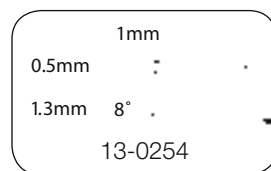
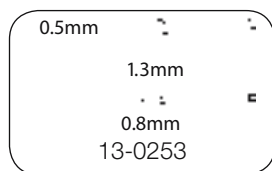
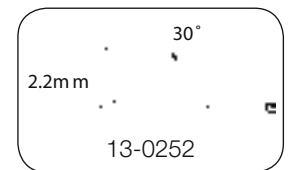
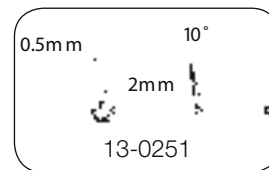
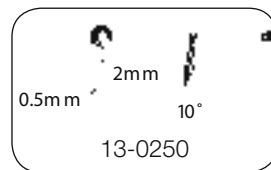
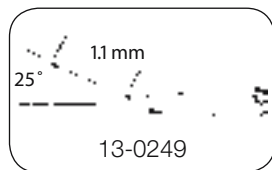
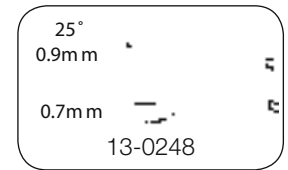
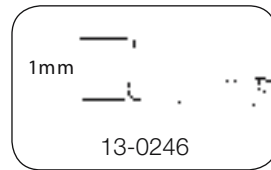
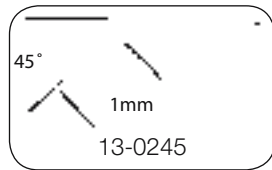
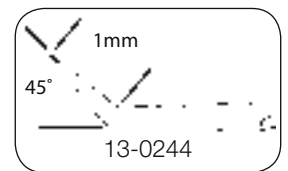
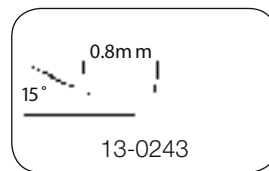
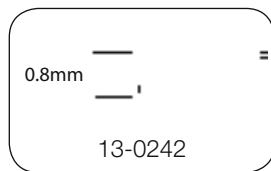
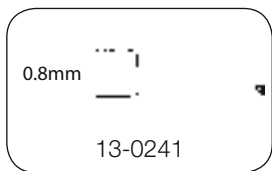
Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0409	Angled Pick, Small	Round, Knurled	Straight	Tip Angled 90°	
13-0410	Angled Pick, Large	Round, Knurled	Straight	Tip Angled 90°	
13-0411	Hoe	Round, Knurled	Straight	Tip Angled 45°	
13-0412	Chisel	Round, Knurled	Straight	Straight Tip	
13-0413	Ball Probe, Small	Round, Knurled	Straight	Tip Angled 20°	
13-0414	Ball Probe, Large	Round, Knurled	Straight	Curved Tip	
13-0415	Malleus Retractor	Round, Knurled	Straight	Tip Angled Up and Over	



Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0275	Complete Set				
13-0241	Angled Pick, Left	Round, Knurled	Angled 6°	Tip Angled Left	140mm/ 5.5"
13-0242	Angled Pick, Right	Round, Knurled	Angled 6°	Tip Angled Right	140mm/ 5.5"
13-0243	Footplate Pick	Round, Knurled	Straight	Tip Angled 15°	140mm/ 5.5"
13-0244	45° Angled Pick	Round, Knurled	Angled 6°	Tip Angled 45°	140mm/ 5.5"
13-0245	45° Angled Pick	Round, Knurled	Angled 6°	Tip Angled 45°	140mm/ 5.5"
13-0246	90° Angled Pick	Round, Knurled	Angled 6°	Tip Angled Right	140mm/ 5.5"
13-0247	Angled Pick, Left	Round, Knurled	Angled 6°	Tip Angled Left	140mm/ 5.5"
13-0248	Mucous Membrane Knife	Round, Knurled	Straight	Blade Angled 25°	140mm/ 5.5"
13-0249	Mucous Membrane Knife	Round, Knurled	Straight	Blade Angled 25°	140mm/ 5.5"
13-0250	Crurotomy Saw Knife, Left	Round, Knurled	Straight	Blade Angled 10° Left	140mm/ 5.5"
13-0251	Crurotomy Saw Knife, Right	Round, Knurled	Straight	Blade Angled 10° Right	140mm/ 5.5"
13-0252	Incudostapedial Joint Knife	Round, Knurled	Straight	Angled 30°	140mm/ 5.5"
13-0253	Straight Chisel	Round, Knurled	Angled 6°	Straight	140mm/ 5.5"
13-0254	Angled Chisel	Round, Knurled	Angled 6°	Tip Angled 8°	140mm/ 5.5"
13-0255	Angled Chisel	Round, Knurled	Angled 6°	Tip Angled 25°	140mm/ 5.5"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0256	Stapedius Tendon Knife	Round, Knurled	Straight	Curved Blade	140mm/ 5.5"
13-0257	Stapes Knife	Round, Knurled	Straight	Curved Blade	140mm/ 5.5"
13-0258	Angled Pick	Round, Knurled	Straight	Angled Tip 90°	140mm/ 5.5"
13-0259	Angled Pick	Round, Knurled	Straight	Tip Angled 45°	140mm/ 5.5"
13-0260	Angled Pick	Round, Knurled	Straight	Tip Angled 45°	140mm/ 5.5"
13-0261	Curved Mobilization Pick	Round, Knurled	Straight	Curved Tip	140mm/ 5.5"
13-0262	Duckbill Elevator, Small	Round, Knurled	Straight	Blunt Tip	140mm/ 5.5"
13-0263	Duckbill Elevator, Large	Round, Knurled	Straight	Blunt Tip	140mm/ 5.5"
13-0264	Annulus Elevator	Round, Knurled	Straight	Tip Angled 15°	140mm/ 5.5"
13-0265	Straight Curette, Small	Round, Knurled	Straight	—	140mm/ 5.5"
13-0266	Angled Curette, Small	Round, Knurled	Straight	—	140mm/ 5.5"
13-0267	Angled Curette, Medium	Round, Knurled	Straight	—	140mm/ 5.5"
13-0268	Curette, Large	Round, Knurled	Goose-neck	—	140mm/ 5.5"
13-0269	Curette, Large, Cut Up	Round, Knurled	Goose-neck	—	140mm/ 5.5"
13-0270	Mucous Membrane Knife	Round, Knurled	Straight	Straight	140mm/ 5.5"

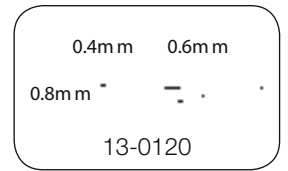
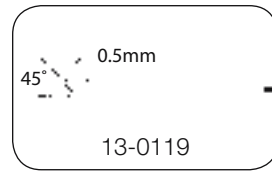
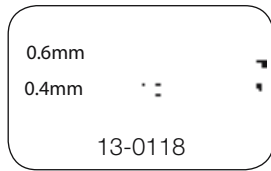
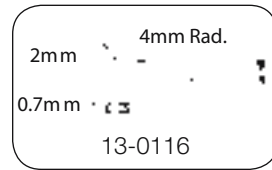
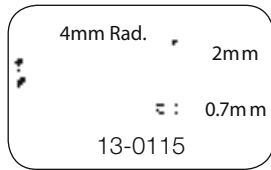
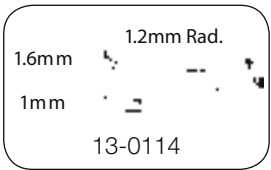
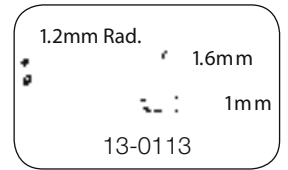
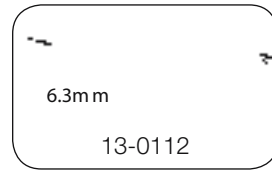
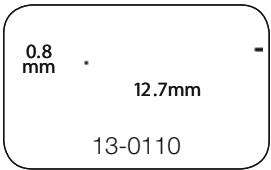
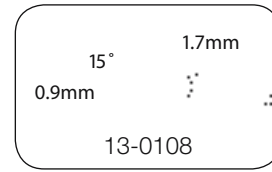
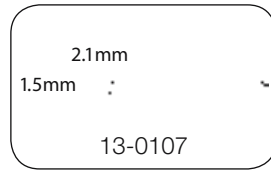
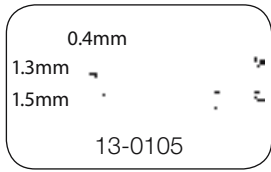
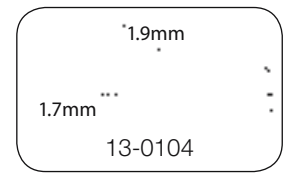
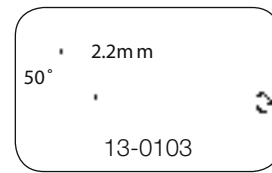
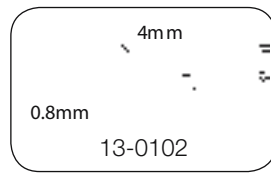
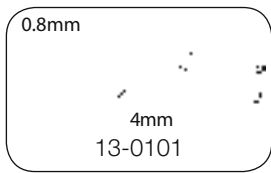


Hough Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0101	Oval Window Curette, Right	Round, Knurled	Straight	Tip Curved Right	152mm/6"
13-0102	Oval Window Curette, Left	Round, Knurled	Straight	Tip Curved Left	152mm/6"
13-0103	Stapes Knife	Round, Knurled	Straight	Angled 50°	152mm/6"
13-0104	Annulus Elevator	Flat	Bayonet	Blunt Tip, Angled Up	165mm/6.5"
13-0105	Spatula	Round, Knurled	Straight	Blunt Tip	152mm/6"
13-0106	Curette, Small	Flat	Straight	—	152mm/6"
13-0107	Curette, Large	Flat	Straight	—	152mm/6"
13-0108	Derlacki Mobilizer	Round, Knurled	Angled 10°	Tip Angled 15°	152mm/6"
13-0109	Big Curve Pick	Round, Knurled	Straight	Curved Tip	152mm/6"
13-0110	Gouge	Round, Knurled	Straight	Curved Tip	152mm/6"
13-0111	Chisel	Round, Knurled	Angled 10°	Straight Tip	152mm/6"

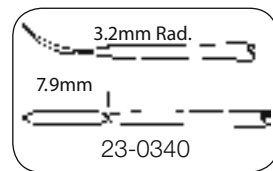
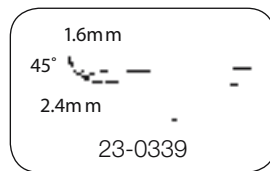
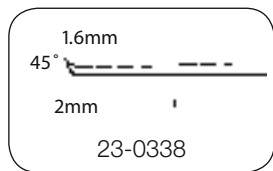
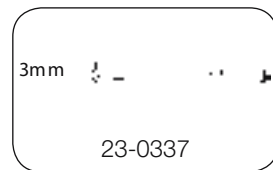
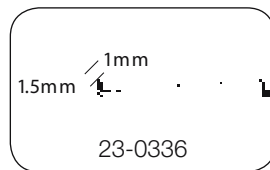
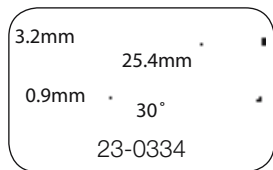
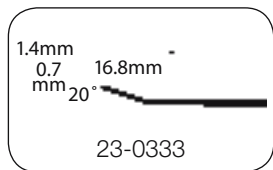
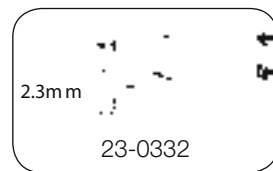
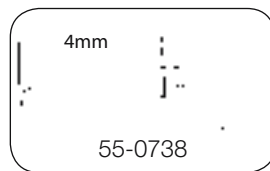
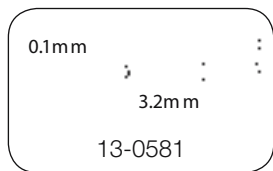
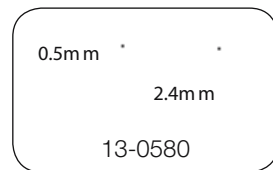
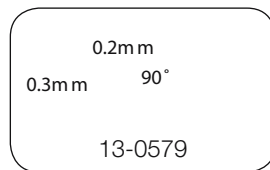
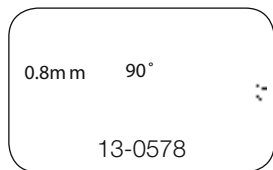
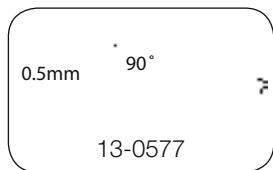
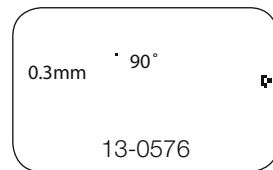
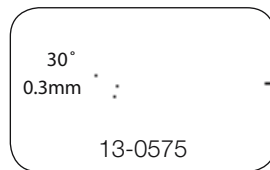
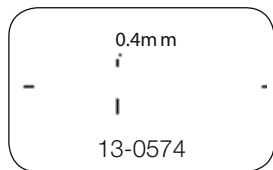
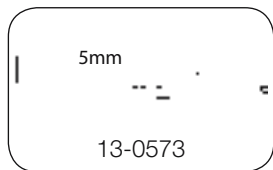
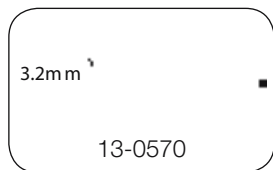
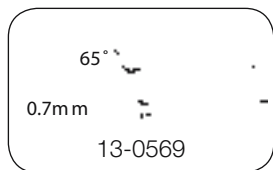
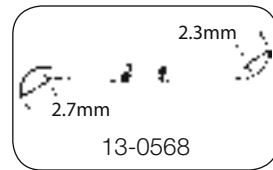
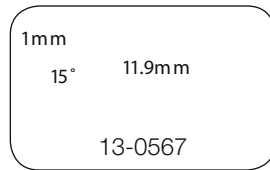
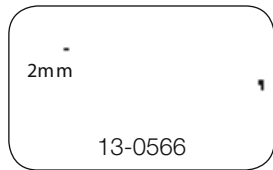
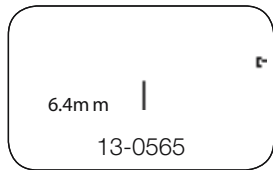
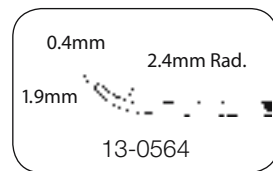
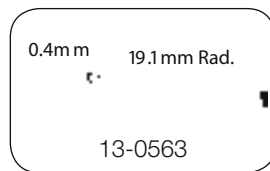
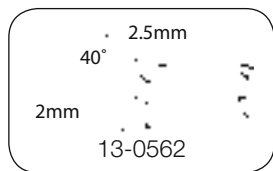
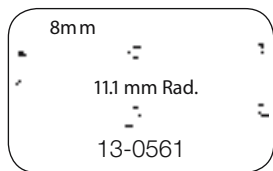
Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0112	Gentle Curve Pick	Round, Knurled	Straight	Curved Tip	152mm/6"
13-0113	Whirleybird, Large Right	Round, Knurled	Straight	Right Tip	152mm/6"
13-0114	Whirleybird, Large Left	Round, Knurled	Straight	Left Tip	152mm/6"
13-0115	Whirleybird, Small Right	Round, Knurled	Straight	Right Tip	152mm/6"
13-0116	Whirleybird, Small Left	Round, Knurled	Straight	Left Tip	152mm/6"
13-0117	Angled Pick	Round, Knurled	Angled 15°	Angled Tip	152mm/6"
13-0118	Excavator	Round, Knurled	Angled 10°	Tip Angled Up	152mm/6"
13-0119	Angled Pick	Round, Knurled	Angled 10°	Tip Angled 45°	152mm/6"
13-0120	Tiny Tendon Knife	Round, Knurled	Straight	Straight	152mm/6"



House Set

Catalog Number	Name	Handle	Shaft Angle	Blade	Finish	Overall Length
13-0557	Complete Set					
13-0561	Sickle Knife, No. 1	Round, Knurled	Straight	Straight Blade	Vapor Blast	
13-0562	Lancet Knife No. 2	Round, Knurled	Straight	Angled 40°	Vapor Blast	
13-0563	Wide Bayonet Separator	Flat	Bayonet	Blunt Tip	Vapor Blast	
13-0564	Narrow Bayonet	Flat	Bayonet	Blunt Tip	Vapor Blast	
13-0565	Rosen Needle	Round, Knurled	Straight	Blunt Tip	Vapor Blast	
13-0566	Rosen Needle, Sharp	Round, Knurled	Straight	Sharp Tip	Vapor Blast	
13-0567	Stapes Elevator,	Round, Knurled	Straight	Tip Angled 15°	Vapor Blast	
13-0568	Stapes Curette,	Flat	Straight	Cuts Up & Down	Vapor Blast	
13-0569	Joint Knife	Round, Knurled	Straight	Angled 65°	Vapor Blast	
13-0570	Heavy Needle	Round, Knurled	Straight	Curved Tip	Vapor Blast	
13-0571	Measuring Rod, 4mm	Round, Knurled	Straight	Straight Tip	Vapor Blast	
13-0572	Measuring Rod, 4.5mm	Round, Knurled	Straight	Straight Tip	Vapor Blast	
13-0573	Measuring Rod, 5mm	Round, Knurled	Straight	Straight Tip	Vapor Blast	
13-0574	Barbara	Round, Knurled	Straight	Straight Tip	Vapor Blast	
13-0575	Obtuse Hook	Round, Knurled	Angled 30°	Straight Tip	Vapor Blast	
13-0576	Hook	Round, Knurled	Straight	Tip Angled 90°	Vapor Blast	

Catalog Number	Name	Handle	Shaft Angle	Blade	Finish	Overall Length
13-0577	Hook	Round, Knurled	Straight	Tip Angled 90°	Vapor Blast	
13-0578	Hook	Round, Knurled	Straight	Tip Angled 90°	Vapor Blast	
13-0579	Excavator	Round, Knurled	Straight	Tip Angled 90°	Vapor Blast	
13-0580	Chisel	Round, Knurled	Straight	Straight Tip	Vapor Blast	
13-0581	Wire Guide	Round, Knurled	Straight	Straight Tip	Vapor Blast	
23-0331	Strut Pick	Hexagonal	Straight	Angled Tip	Vapor Blast	
55-0738	House Crabtree	Hexagonal	Straight	Tip Angled 90°	Vapor Blast	
23-0332	Crabtree Dissector Pick	Hexagonal	Straight	Tip Angled 90°	Vapor Blast	
23-0333	Insulated Stapes	Straight, Octagonal	Angled	—	Vapor Blast	
23-0334	Narrow	Octagonal	Straight	Tip Angled 30°	Electro-polish	
23-0336	Hook	Octagonal	Straight	Hook Angled	Satin	
23-0337	Hook	Octagonal	Straight	Hook Angled	Satin	
23-0338	Sheehy Weapon, Small	Octagonal	Straight	Blade Angled	Satin	
23-0339	Sheehy Weapon, Large	Octagonal	Straight	Blade Angled	Satin	
23-0340	Sheehy Flap Knife	Hexagonal	Straight	Curved Blade	Vapor Blast	



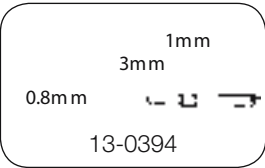
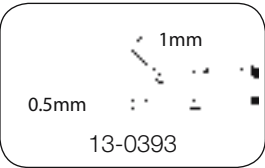
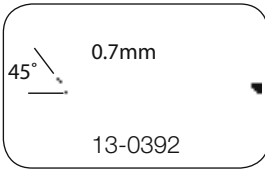
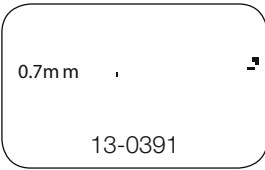
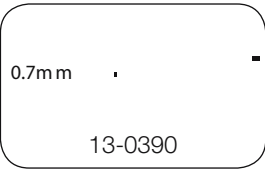
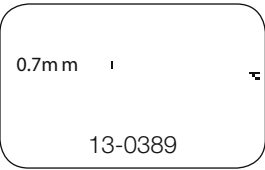
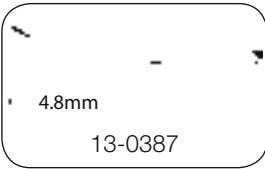
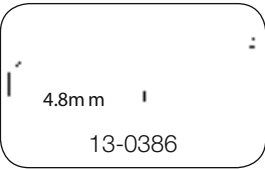
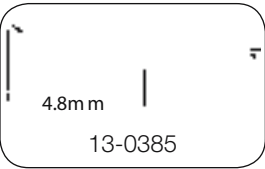
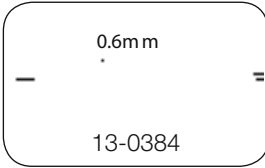
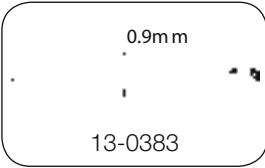
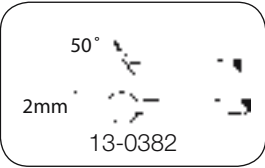
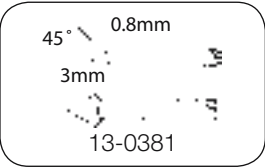
Jordan Set,
McGee Set

Jordan Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0399	Complete Set				
13-0381	Angular Knife	Round, Knurled	Straight	Angled 45°	174mm/ 6.8"
13-0382	Oval Knife	Round, Knurled	Straight	Angled 50°	174mm/ 6.8"
13-0383	Heavy Pick	Round, Knurled	Bayonet	Straight Tip	165mm/ 6.5"
13-0384	Slim Pick	Round, Knurled	Bayonet	Straight Tip	165mm/ 6.5"
13-0385	Anterior Oblique Pick, Heavy	Round, Knurled	Bayonet	Curved Tip	165mm/ 6.5"
13-0386	Posterior Oblique Pick, Heavy	Round, Knurled	Bayonet	Curved Tip	165mm/ 6.5"
13-0387	Anterior Oblique Pick, Slim	Round, Knurled	Bayonet	Curved Tip	165mm/ 6.5"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0388	Posterior Oblique Pick, Slim	Round, Knurled	Bayonet	Curved Tip	165mm/ 6.5"
13-0389	Angled Pick, Right	Round, Knurled	Bayonet	Angled Tip	165mm/ 6.5"
13-0390	Angled Pick	Round, Knurled	Bayonet	Tip Angled Down	165mm/ 6.5"
13-0391	Angled Pick, Left	Round, Knurled	Bayonet	Tip Angled Left	165mm/ 6.5"
13-0392	Slim Pick	Round, Knurled	Bayonet	Tip Angled Up 45°	165mm/ 6.5"
13-0393	Capsule Knife	Round, Knurled	Bayonet	Angled 45°	165mm/ 6.5"
13-0394	Measuring Rod	Round, Knurled	Bayonet	Straight Tip	166mm/ 6.5"

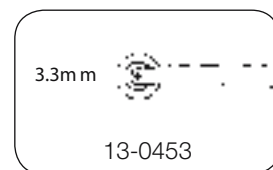
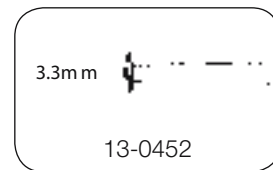
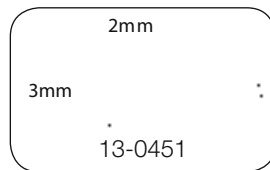
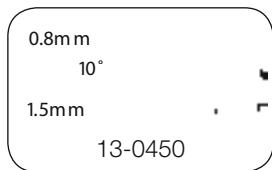
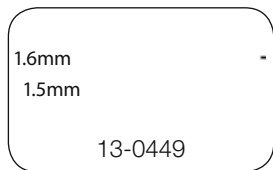
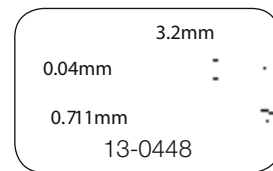
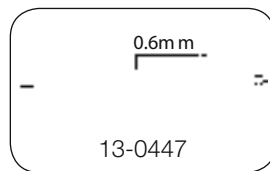
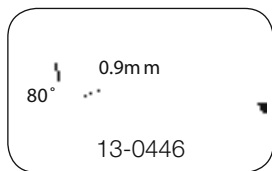
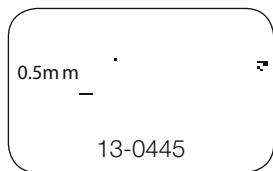
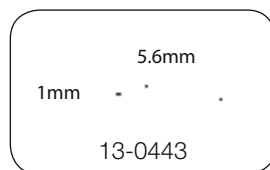
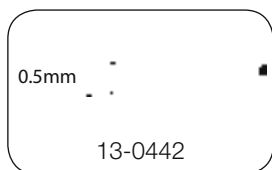
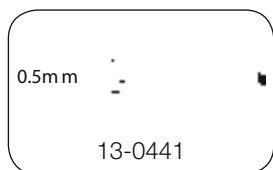


McGee Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0441	Anterior Footplate Hook	Round, Knurled	Angled 20°	Angled Tip, 90°	154mm/ 6.1"
13-0442	Posterior Footplate Hook	Round, Knurled	Angled 20°	Angled Tip	154mm/ 6.1"
13-0443	Double Bladed Knife	Round, Knurled	Angled 20°	Straight	154mm/ 6.1"
13-0444	Pick	Round, Knurled	Angled 20°	Straight Tip	157mm/ 6.2"
13-0445	Small Pick	Round, Knurled	Angled 20°	Straight Tip	157mm/ 6.2"
13-0446	Angled Pick	Round, Knurled	Angled 20°	Tip Angled 20°	157mm/ 6.2"
13-0447	Straight Pick	Round, Knurled	Angled 20°	Straight Tip	154mm/ 6.1"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0448	Flat Chisel	Round, Knurled	Angled 20°	Slight Angle	165mm/ 6.5"
13-0449	Elevator	Flat	Bayonet	Blunt tip, Angled Up	158mm/ 6.2"
13-0450	Separator	Round, Knurled	Straight	Tip Angled 10°	156mm/ 6.2"
13-0451	Anterior Canal Wall Elevator	Round, Knurled	Straight	Blunt Tip, Angled Up	155mm/ 6.1"
13-0452	Roller Knife, Transverse	Flat	Straight	Straight	158mm/ 6.2"
13-0453	Roller Knife, Sagittal	Flat	Straight	Straight	158mm/ 6.2"



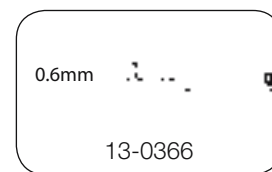
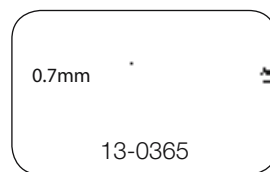
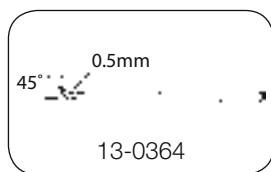
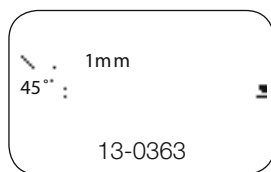
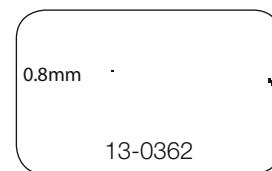
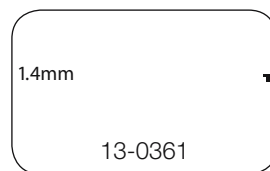
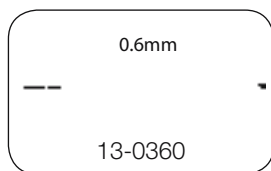
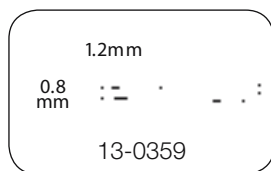
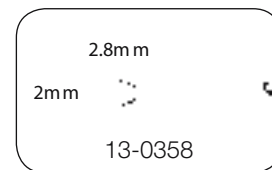
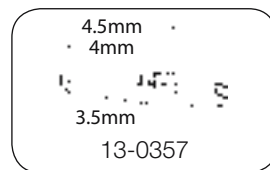
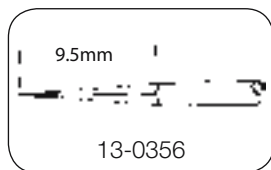
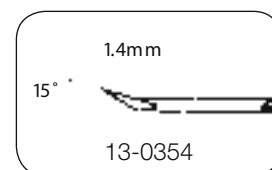
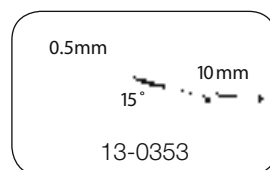
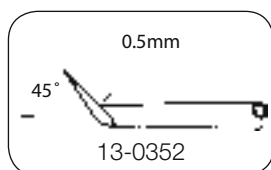
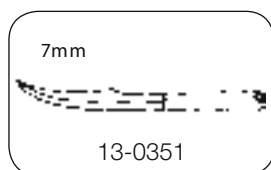
Ronis Set, Scheer Set

Ronis Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0351	Flap Knife	Round, Knurled	Straight	Straight	152mm/6"
13-0352	Periosteal Knife	Round, Knurled	Straight	Angled 45°	152mm/6"
13-0353	Elevator	Round, Knurled	Straight	Tip Angled Up 15°	152mm/6"
13-0354	Joint Separator	Round, Knurled	Straight	Tip Angled 15°	152mm/6"
13-0355	Chisel	Round, Knurled	Straight	Straight Tip	152mm/6"
13-0356	Perforator	Round, Knurled	Straight	Straight Tip	152mm/6"
13-0357	Measuring Rod	Round, Knurled	Straight	—	152mm/6"
13-0358	Curette	Flat	Angled	—	152mm/6"
13-0359	Curette	Flat	Angled 10°	—	152mm/6"

Catalog Number	Name	Handle Description	Shaft Angle	Blade Description	Overall Length
13-0360	Pick	Round, Knurled	Straight	Straight Tip	152mm/6"
13-0361	Large Angled Pick	Round, Knurled	Straight	Angled Tip	152mm/6"
13-0362	Small Angled Pick	Round, Knurled	Straight	Angled Tip	152mm/6"
13-0363	Large Angled Pick	Round, Knurled	Straight	Tip Angled 45°	152mm/6"
13-0364	Small Angled Pick	Round, Knurled	Straight	Tip Angled 45°	152mm/6"
13-0365	Fine Right Angle Hook	Round, Knurled	Straight	90° Hook	152mm/6"
13-0366	Fine Hook	Round, Knurled	Straight	Angled Tip	152mm/6"

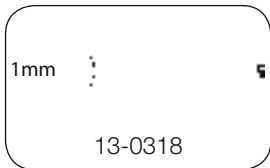
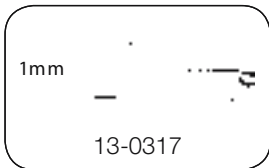
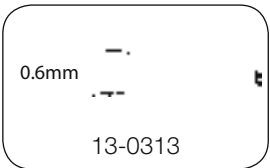
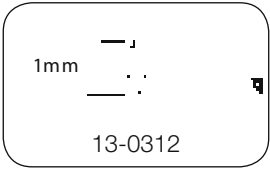
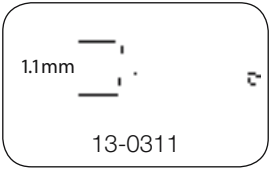
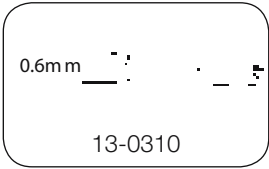
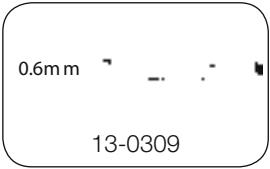
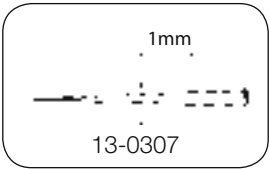
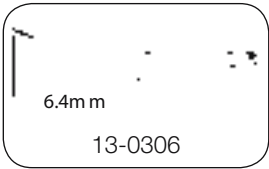
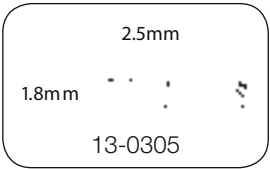
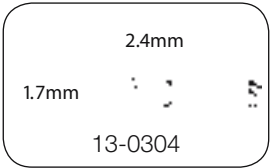
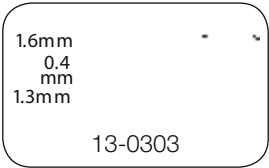
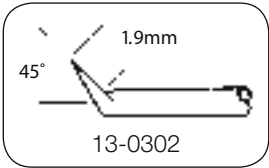


Scheer Set

Straight Shaft, Ebony Finish

Catalog Number	Name	Handle Description	Blade Description	Overall Length
13-0302	Knife and Elevator	Round, Knurled	Tip Angled 45°	161mm/6.3"
13-0303	Elevator	Round, Knurled	Blunt Tip, Angled Up	161mm/6.3"
13-0304	Curette	Flat	—	168mm/6.6"
13-0305	Curette	Flat	—	168mm/6.6"
13-0306	45° Angle Pick	Round, Knurled	Straight Tip, Angled Up	161mm/6.3"
13-0307	Plastic Tube	Round, Knurled	Straight Tip	161mm/6.3"
13-0308	Footplate Pick	Round, Knurled	Tip Angled 20°	161mm/6.3"
13-0309	Gelfoam Placer	Round, Knurled	Curved Tip	161mm/6.3"

Catalog Number	Name	Handle Description	Blade Description	Overall Length
13-0310	Fine Right-Angle Pick	Round, Knurled	Angled Tip	162mm/6.4"
13-0311	Crura Breaker	Round, Knurled	Angled Tip	162mm/6.4"
13-0312	Pick	Round, Knurled	Angled Tip	162mm/6.4"
13-0313	Hook (Delicate)	Round, Knurled	Tip Curved Up	161mm/6.3"
13-0316	Firm Hook	Round, Knurled	Tip Curved Up	161mm/6.3"
13-0317	Firm Pick	Round, Knurled	Angled Tip	162mm/6.4"
13-0318	Oval Window Rasp	Round, Knurled	Straight Tip	161mm/6.3"



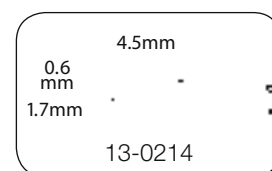
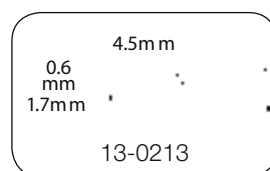
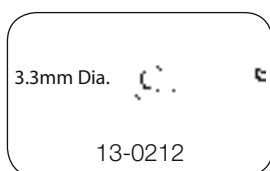
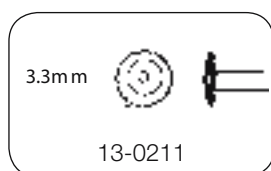
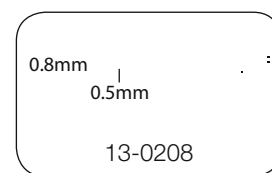
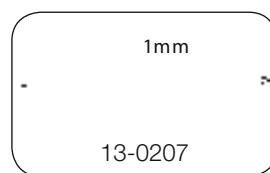
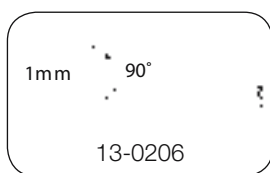
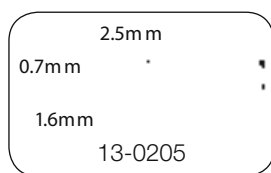
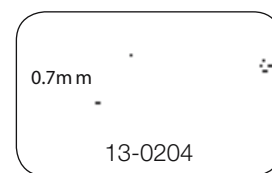
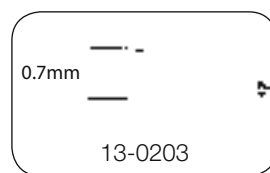
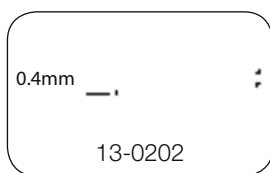
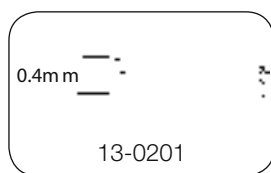
Schuknecht Set, Shea Set

Schuknecht Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Tip	Overall Length
13-0225	Complete Set				
13-0201	Hook Angled Up	Round, Knurled	Angled 20°	0.4mm Tip, Angled Up	154mm/ 6.1"
13-0202	Hook Angled Down	Round, Knurled	Angled 20°	Tip Angled Down	154mm/ 6.1"
13-0203	Hook Angled Up	Round, Knurled	Angled 20°	Tip Angled Up	154mm/ 6.1"
13-0204	Hook Angled Down	Round, Knurled	Angled 20°	Tip Angled Down	154mm/ 6.1"
13-0205	Oval Window Elevator	Round, Knurled	Angled 20°	Curved Tip	154mm/ 6.1"
13-0206	Hook	Round, Knurled	Angled 20°	Tip Angled 90°	154mm/ 6.1"

Catalog Number	Name	Handle Description	Shaft Angle	Tip	Overall Length
13-0207	Pick	Round, Knurled	Angled 20°	Straight	154mm/ 6.1"
13-0208	Spatula	Round, Knurled	Angled 20°	Blunt	154mm/ 6.1"
13-0211	Roller Knife, Transverse	Flat	Angled 20°	Straight	154mm/ 6.1"
13-0212	Roller Knife, Sagittal	Flat	Angled 20°	Sharp	154mm/ 6.1"
13-0213	Modified Hough Elevator, Left	Round, Knurled	Angled 20°	Left	154mm/ 6.1"
13-0214	Modified Hough Elevator, Right	Round, Knurled	Angled 20°	Right	154mm/ 6.1"

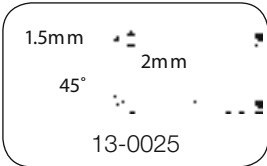
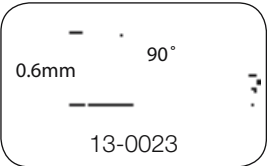
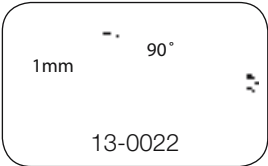
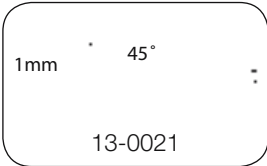
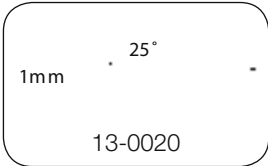
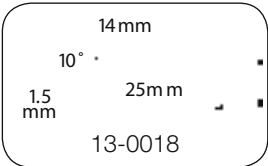
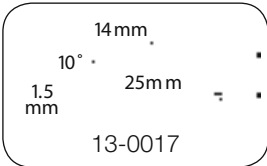
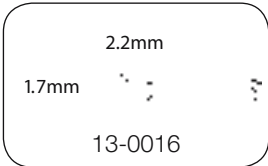
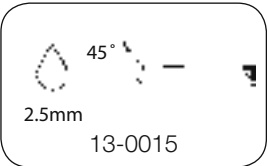


Shea Set

Ebony Finish

Catalog Number	Name	Handle Description	Shaft Angle	Tip Description	Overall Length
13-0015	Incising Knife	Round, Knurled	10°	Blade Angled 45°	174mm/ 6.8"
13-0016	Curette	Flat	10°	Straight	146mm/ 5.8"
13-0017	Elevator, Left	Round, Knurled	Straight	Angled Left 10°	174mm/ 6.8"
13-0018	Elevator, Right	Round, Knurled	Straight	Angled Right 10°	174mm/ 6.8"
13-0019	Pick	Round, Knurled	Straight	Curved	174mm/ 6.8"
13-0020	Fenestra Hook	Round, Knurled	Straight	Angled Up 25°	174mm/ 6.8"

Catalog Number	Name	Handle Description	Shaft Angle	Tip Description	Overall Length
13-0021	Fenestra Hook	Round, Knurled	Straight	Angled Up 90°	174mm/ 6.8"
13-0022	Fenestra Hook	Round, Knurled	Straight	Angled Up 90°	174mm/ 6.8"
13-0023	Fenestra Hook, Short	Round, Knurled	Straight	Angled Up 90°	174mm/ 6.8"
13-0024	Larged Angled Pick	Round, Knurled	Straight	Angled	174mm/ 6.8"
13-0025	Anterior Crurotomy Knife	Round, Knurled	Straight	Blade Angled 45°	174mm/ 6.8"

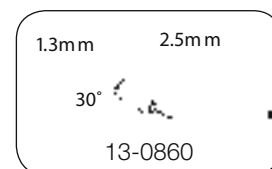
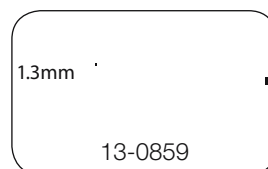
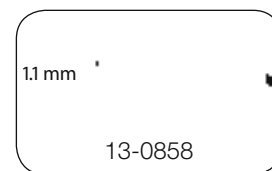
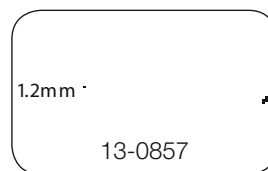
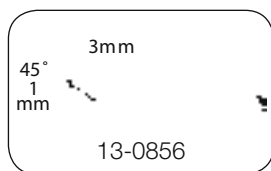
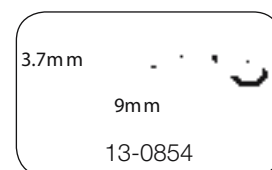
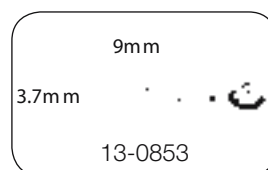
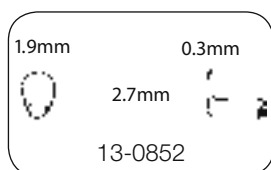
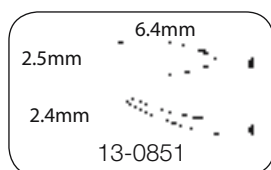


Shea/Robertson Set

Posterior Fossa Set

Catalog Number	Name	Handle Description	Shaft Angle	Tip	Finish	Length
13-0850	Complete Set					
13-0851	Duckbill Elevator	Round, Knurled	Straight	Curved, Blunt	Ebony	
13-0852	Reverse Elevator	Round, Knurled	Straight	Angled 90°	Ebony	
13-0853	Excavator, Right	Round, Knurled	Straight	Angled 90°	Ebony	
13-0854	Excavator, Left	Round, Knurled	Straight	Angled 90°	Ebony	
13-0855	Attic Dissector	Round, Knurled	Straight	Angled 90°	Ebony	

Catalog Number	Name	Handle Description	Shaft Angle	Tip	Finish	Length
13-0856	Pick, Sharp	Round, Knurled	Straight	Angled 45°	Ebony	
13-0857	Pick, Blunt	Round, Knurled	Straight	Angled 45°	Ebony	
13-0858	Pick, Sharp	Round, Knurled	Straight	Angled 90°	Ebony	
13-0859	Probe	Round, Knurled	Straight	Angled 90°	Ebony	
13-0860	Middle Ear Mirror	Round, Knurled	Straight	Mirror Angled 1.3mm x 3.2mm	Vapor Blast	



Nasal Specula RHI-105
RHI-110

Nasal Specula, Flexible Tension Arm.....RHI-115

Nasal Dressing Forceps, Cotton Applicator,
Suction Tubes RHI-120

Nasal Snares, Scissors,
Turbinate Crushing Forceps.....RHI-125

Nasal Forceps RHI-130
RHI-135

Septum Forceps.....RHI-140

Nasal Scissors, Bone Cutting Forceps,
Elevators, Raspatories RHI-145

Septum Elevators, Knives,
Gauges, Chisels RHI-150

Osteotomes, Chisels,
Gauges, Mallets RHI-155
RHI-160
RHI-165
RHI-170

Knives.....RHI-175

Hooks, Retractors RHI-180

Scissors.....RHI-185
RHI-190

Nasal Forceps RHI-195

Needle Holders RHI-200

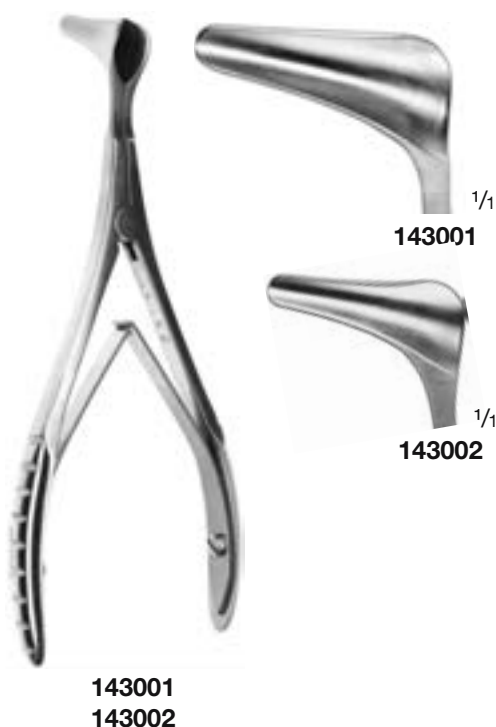
Scissors,
Yankauer Septum Needles RHI-205

Nasal Rasps RHI-210
RHI-215

Cartilage Shaping Instruments.....RHI-220

Rhinoplastic Surgery Set
by Prof. Dr. G. J. Nolst Trenité RHI-325

Nasal Specula



140000 TIECK-HALLE Nasal Speculum for babies, 13 cm

143001 HARTMANN Nasal Speculum for adults, 13.5 cm

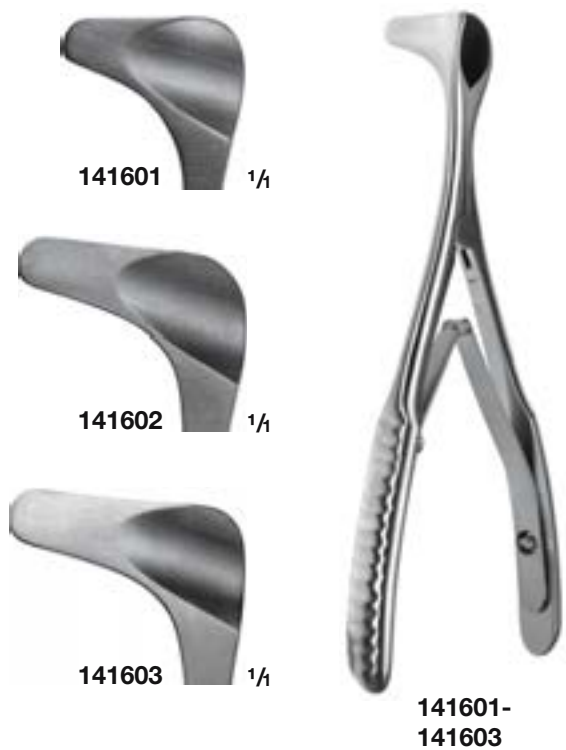
143002 HARTMANN Nasal Speculum for children, 13 cm

143500 HARTMANN Nasal Speculum, light metal, extra light pattern, 14 cm

141301 GOLDSMITH Nasal Speculum, 6.5 cm, small

141302 same, medium

141303 same, large



- 141001 HARTMANN-HALLE Nasal Speculum, 15.5 cm, size 1
- 141002 same, size 2
- 141003 same, size 3
- 141501 HARTMANN Nasal Speculum, 15.5 cm, size 1
- 141502 same, size 2
- 141503 same, size 3
- 141601 "VIENNA" Nasal Speculum, 14 cm, size 1
- 141602 same, size 2
- 141603 same, size 3

Nasal Specula

(cont.)



142001



142002



142003



142004



142001-
142004

142001	KILLIAN Nasal Speculum, 13.5 cm long, size 1 = 35 mm blade length
142002	same, size 2 = 50 mm
142003	same, size 3 = 75 mm
142004	same, size 4 = 90 mm



142240 KILLIAN-STRUYCKEN Nasal Speculum, 14 cm long, blade 40 mm long
 142255 same, 55 mm blade
 142275 same, 75 mm blade
 142290 same, 90 mm blade

400000 COTTLE Nasal Speculum, 13 cm, blade 50 mm, slender pattern, with set screw
 400010 same, without set screw

Nasal Specula, Flexible Tension Arm



400001-
400004



400501-
400504

400001	COTTLE Nasal Speculum, 13.5 cm, with set screw, blade 35 mm
400002	same, blade 50 mm
400003	same, blade 75 mm
400004	same, blade 90 mm
400501	COTTLE Nasal Speculum, 13.5 cm, with set screw, black finish, very thin blades, blade 35 mm
400502	same, blade 45 mm
400503	same, blade 55 mm
400504	same, blade 70 mm



218800

218801



497635-
497690



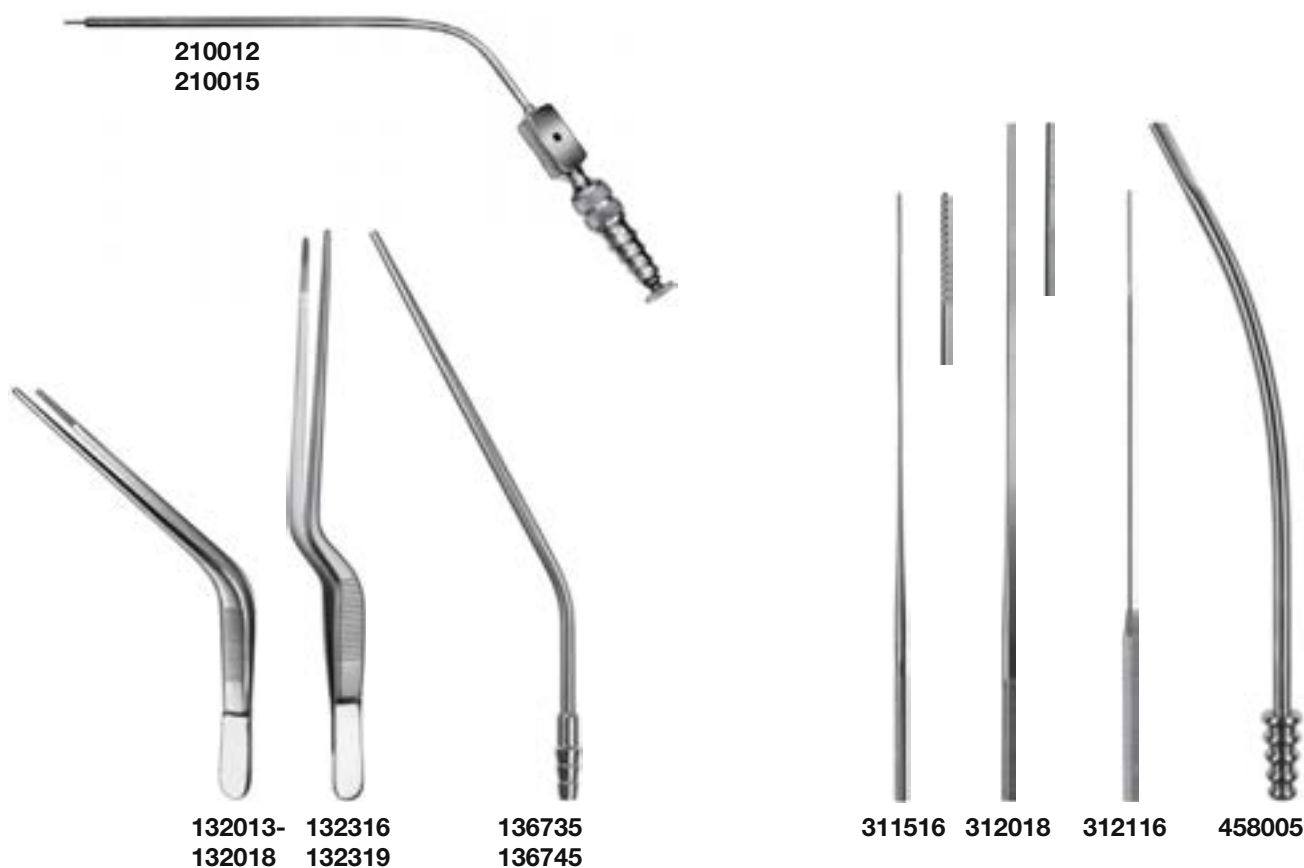
497300



497400

- 218800 Flexible Tension Arm cpl. with holding rod
for attachment to operating table
- 218801 Rotation Clamp for flexible Tension
Arm 218800, attachable to operating table
- 497635 COTTLE-MASING Nasal Speculum
with Set Screw and Adaption for Flexible
Arm 218800, length of blade 35 mm
- 497650 same, blade 50 mm
- 497675 same, blade 75 mm
- 497690 same, blade 90 mm
- 497300 AUFRICHT Retractor, for use with Flexible
Tension Arm 218800
- 497400 same, 2 prongs

Nasal Dressing Forceps, Cotton Applicator, Suction Tubes



- 132013** TROELTSCH Nasal Dressing Forceps, serrated, angular, 13 cm
132016 same, 16 cm
132018 same, 18 cm
- 132316** LUCAE (JANSEN) Nasal Dressing Forceps, bayonet 16 cm
- 132319** GRUENWALD (JANSEN) Nasal Dressing Forceps, bayonet 19 cm
- 136735** Suct. Tube, conical, Luer, 3.0 mm, 16.5 cm
136745 same, 4.5 mm, 19.5 cm long

- 210012** FRAZIER Suction Tube, stainless steel, 12 Charr. = 4.0 mm
210015 same, 15 Charr. = 5 mm
- 311516** Nasal Cotton Applicator, serrated, 16 cm long
312018 same, 18 cm long, triangular
- 312116** Cotton Applicator, triangular, serrated, 1.5 mm Ø, 16 cm
- 458005** Suction tube curved, flat end, 5 mm Ø, 18 cm length



322021



323500



324100

**322021 HARTMANN Nasal Dressing Forceps,
slender model, 20.5 cm**

**323500 WESTMACOTT Nasal Dressing Forceps,
20 cm**

**324100 HOFFMANN Nasal Dressing and Grasping
Forceps, very fine serrated jaws, 19.5 cm**

Nasal Snares, Scissors, Turbinate Crushing Forceps



310000



310500

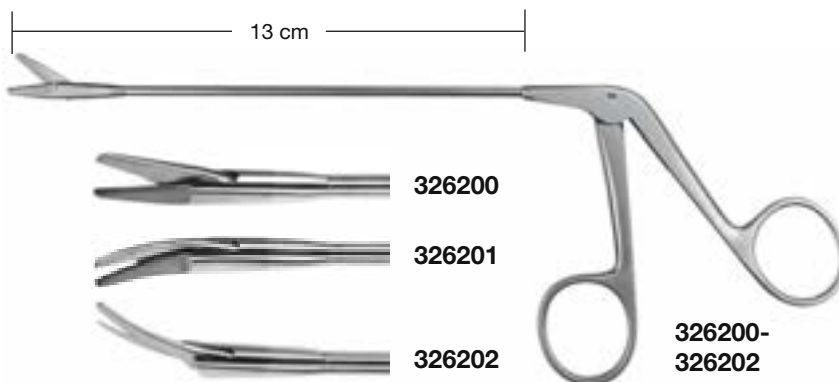
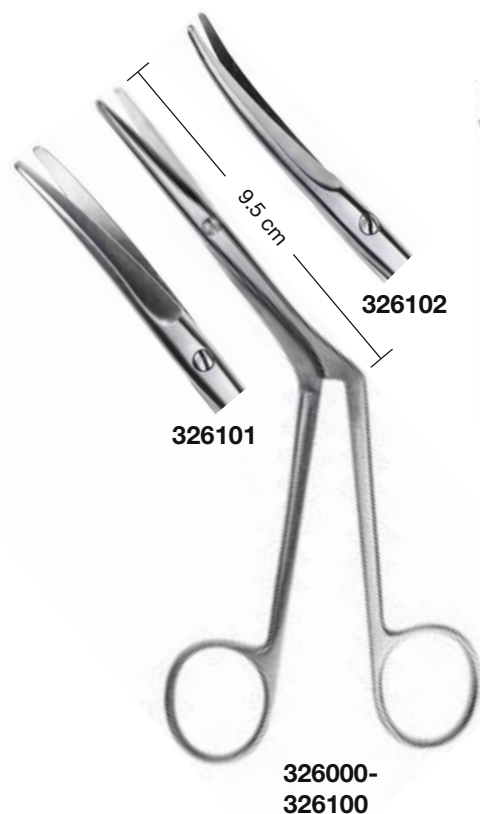


310200



311000-
311135

- 310000 KRAUSE-VOSS Nasal Snare, 27 cm, with vertical and horizontal tip
- 310200 LANGE-WILDE Nasal Snare, 25 cm, bayonet
- 310500 KRAUSE Nasal Snare, 25 cm
- 311000 Nasal Snare Wires, cut and formed, standard size, 10 cm long, 0.3 mm Ø, pack of 12 pieces
- 311035 same, 0.35 mm Ø, pack of 12 pieces
- 311103 same, pack of 100 pieces, 0.3 mm Ø
- 311104 same, pack of 100 pieces, 0.4 mm Ø
- 311135 same, pack of 100 pieces, 0.35 mm Ø



- 326000** HEYMANN Nasal Scissors, smooth blades, medium, standard model, working length 9.5 cm
- 326009** same, small size, working length 9 cm
- 326011** same, large size, working length 11 cm
- 326100** same, standard model, serrated blades, working length 9.5 cm
- 326101** same, smooth blades, working length 9.5 cm, curved left
- 326102** same, curved right

- 326200** Nasal Scissors, serrated blades, working length 13 cm, straight
- 326201** same, curved left
- 326202** same, curved right



- 447003** KRESSNER Turbinate Crushing Forceps, 21 cm length, 3 mm wide
- 447004** same, 4 mm wide

Nasal Forceps



326801



326802



326810

326811



326812-

326814



327500



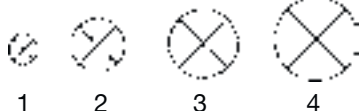
328501

328502



329001-

329004



1

2

3

4



326802

326801 MORIYAMA Nasal Cutting Forceps,
delicate, straight

326802 same, upcutting

326810 MORIYAMA Nasal Cutting Forceps, straight, size 1

326811 same, size 2

326812 same, upcutting, size 1

326813 same, size 2

326814 same, size 3

327500 STRUYCKEN Nasal Cutting Forceps,
working length 11 cm,

328501 GRUENWALD-HENKE Nasal Cutting Forceps, size 1

328502 same, size 2

329001 HARTMANN Nasal Cutting Forceps, size 1,
working length 11 cm

329002 same, size 2

329003 same, size 3

329004 same, size 4



326805



326804

326804 MORIYAMA Universal Nasal Forceps, delicate, oval cups, working length 13 cm, straight



326805

326805 same, upturned



327001

327001 TAKAHASHI Nasal Forceps, working length 11 cm, jaws 3 x 10 mm, straight



327002

327002 same, 45° upturned



334000

334000 WATSON-WILLIAMS Nasal Forceps, serrated jaws, working length 11 cm, straight



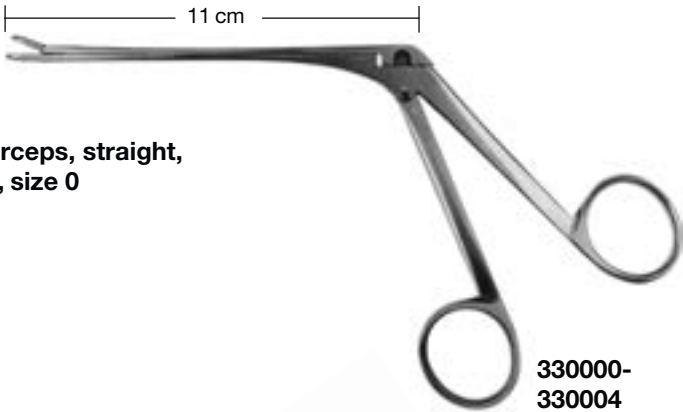
334045

334045 same, 45° upturned

Nasal Forceps

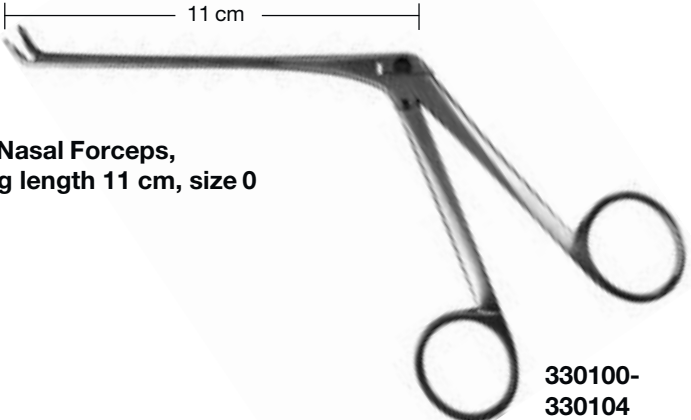
(cont.)





	330000	BLAKESLEY Nasal Forceps, straight, working length 11 cm, size 0
	330001	same, size 1
	330002	same, size 2
	330003	same, size 3
	330004	same, size 4





	330100	BLAKESLEY-WILDE Nasal Forceps, 45° upturned, working length 11 cm, size 0
	330101	same, size 1
	330102	same, size 2
	330103	same, size 3
	330104	same, size 4



330300 **STRUEMPEL-VOSS Nasal Forceps,**
45° upturned, extra delicate, working length 11 cm



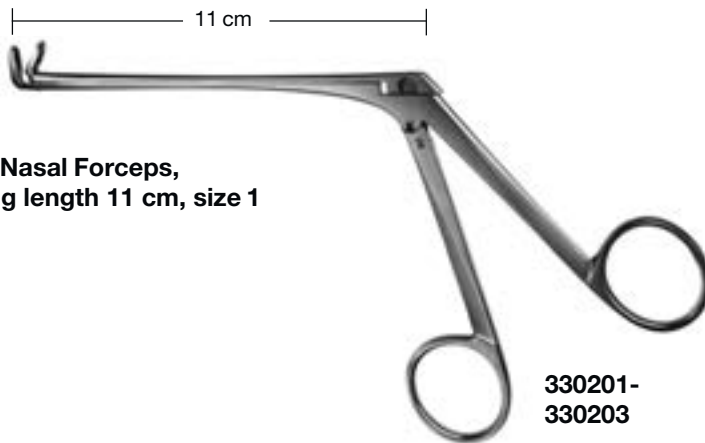
330201 **BLAKESLEY-WILDE Nasal Forceps,**
90° upturned, working length 11 cm, size 1



330202 same, size 2



330203 same, size 3



**330201-
330203**

Septum Forceps



335500



335600



441500



442000

- 335500** JANSEN Septum Forceps, double action, oval spoon blades, 18 cm
- 335600** JANSEN-MIDDLETON Septum Forceps, double action, through-cutting blades, 19 cm
- 441500** BECKER Septum Scissors, double action, with serrated jaws, 18 cm
- 442000** RUBIN Septum Morcelizer, double action, 22 cm



332001



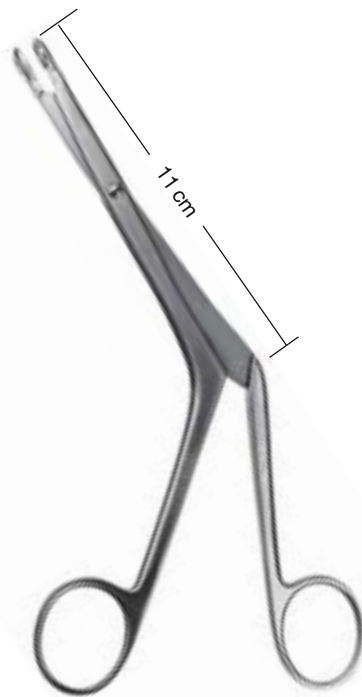
332002



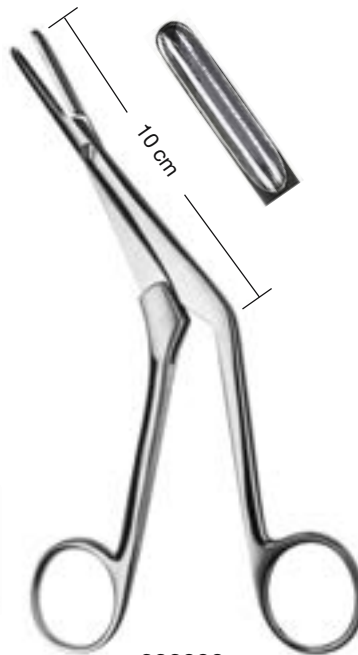
332003



332004



332001-
332004



333000



333100



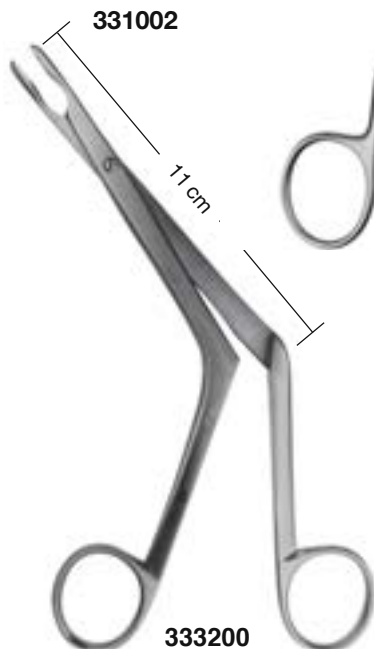
331001



331002



331001
331002



333200

331001 LUC Septum Forceps, 20.5 cm, Fig. 1
331002 same, size 2

332001 BRUENINGS Septum Forceps, 19 cm,
working length 11 cm, size 1
332002 same, size 2
332003 same, size 3
332004 same, size 4

333000 CRAIG Septum Forceps, sharp, 18 cm,
working length 10 cm, straight

333100 CRAIG-DOMNICK Septum Forceps, sharp,
18 cm, working length 10 cm, curved

333200 KNIGHT Septum Forceps, w. length 11 cm

Nasal Scissors, Bone Cutting Forceps, Elevators, Raspatories



440000



440500



440600



440700



440800

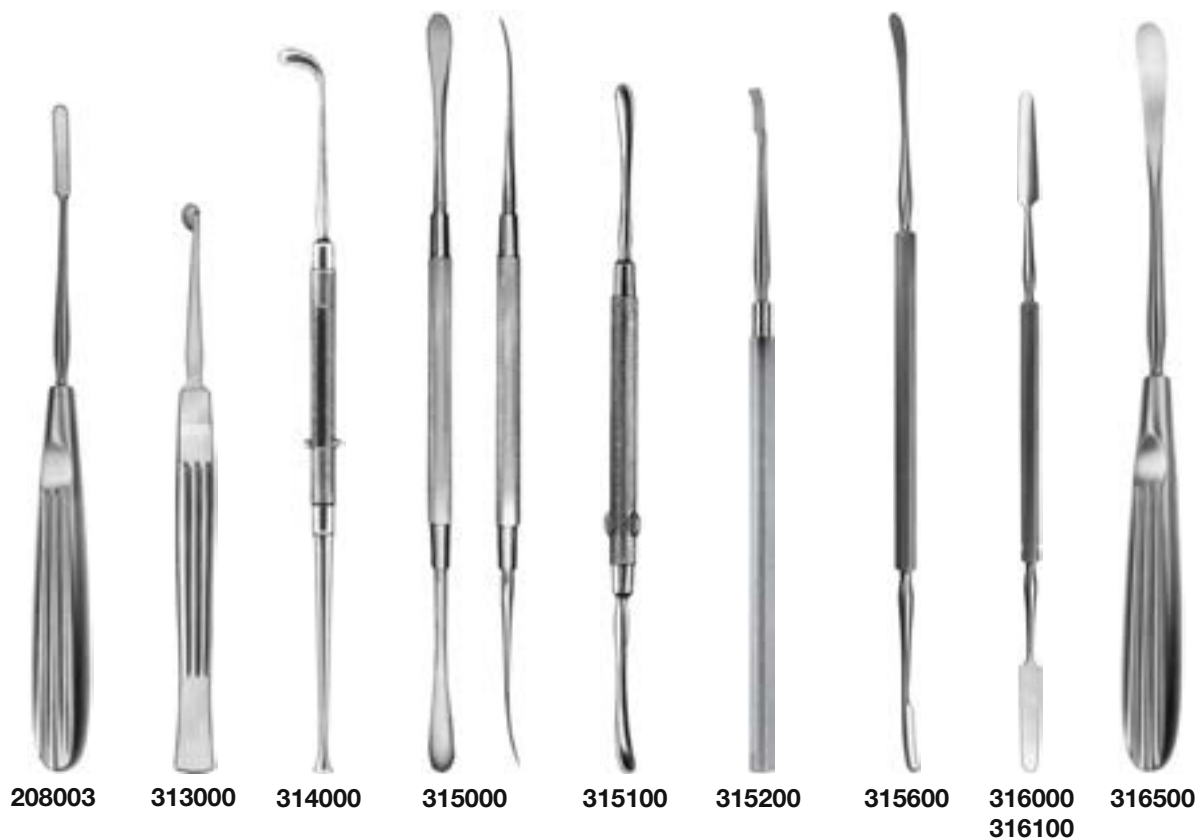
440000 COTTLE-KAZANJIAN Bone Cutting Forceps,
18.5 cm, straight

440500 CAPLAN Nasal Scissors, double action,
22 cm, angled, serrated blades

440600 same, straight

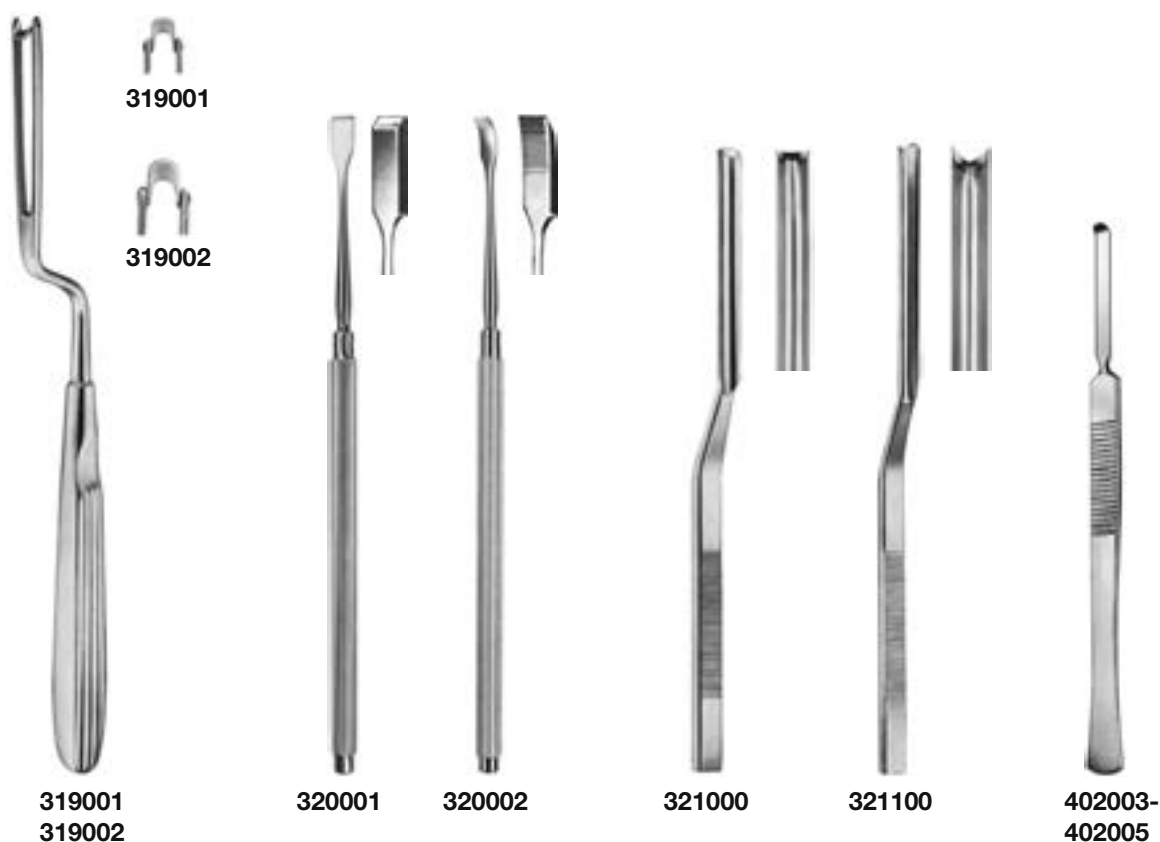
440700 ROWLAND Nasal Hump Rongeur,
double action, straight, 18 cm

440800 MEYER Nasal Hump Forceps, double action,
20 cm, curved blades, blade length 35 mm

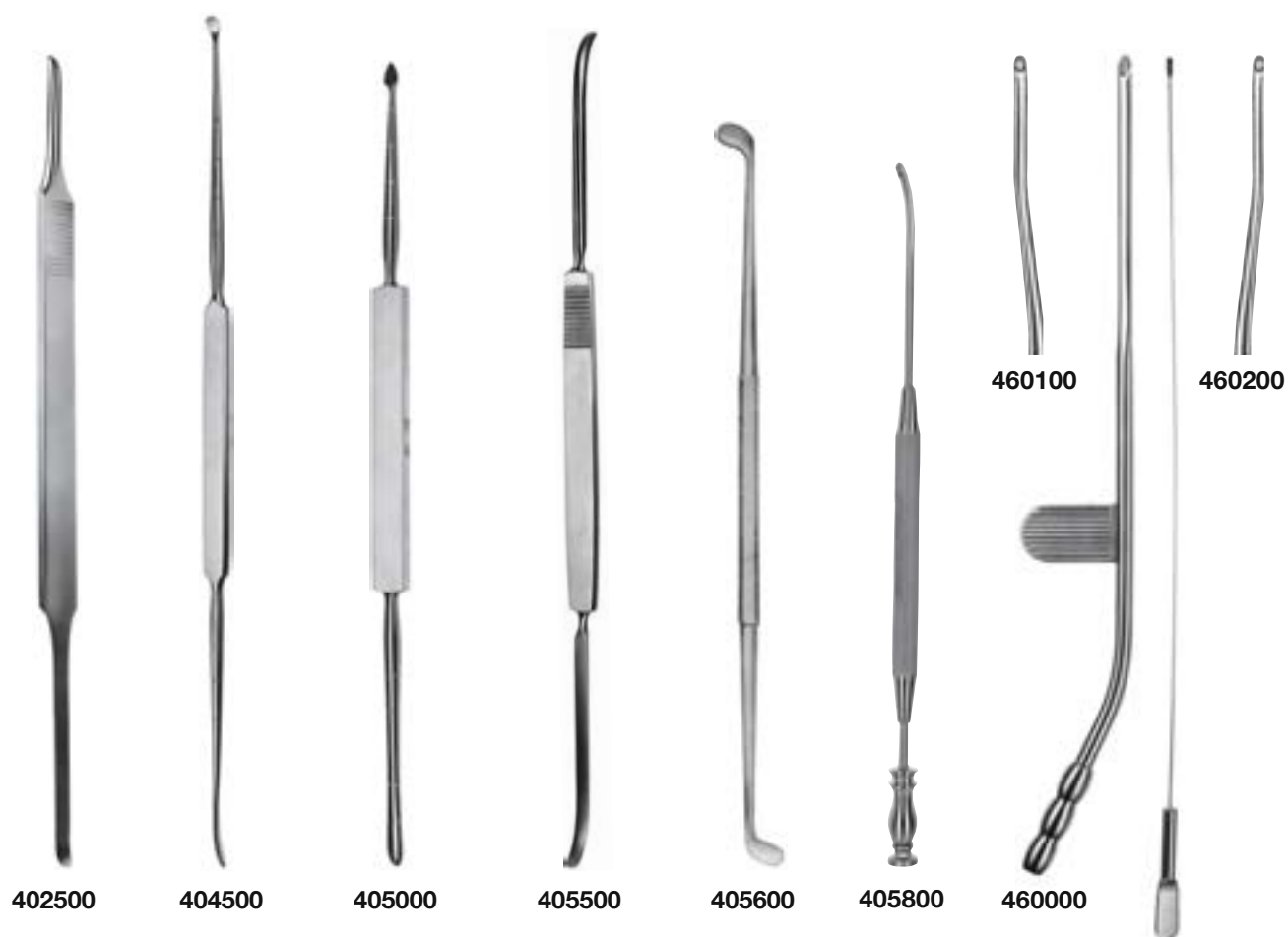


- 208003 LEMPERT-JOSEPH Raspatory, 4 mm, 17.5 cm
- 313000 FREER Mucosa Knife, 15 cm
- 314000 FREER Septum Knife, angled, 19 cm
- 315000 FREER Elevator, double-end, 20 cm, USA model
- 315100 FREER Elevator, double-end, 18 cm, sharp/blunt
- 315200 FREER Elevator, sharp cornered end, curved, 18 cm long
- 315600 FREER-JOSEPH Elevator, double-end, delicate, 20 cm long
- 316000 KILLIAN Septum Elevator, double-end, 18 cm, sharp/blunt, short model
- 316100 same, 23 cm, straight, long model
- 316500 COTTLE Raspatory, slightly curved, 8 mm wide, 19.5 cm long, sharp

Septum Elevators, Knives, Gauges, Chisels

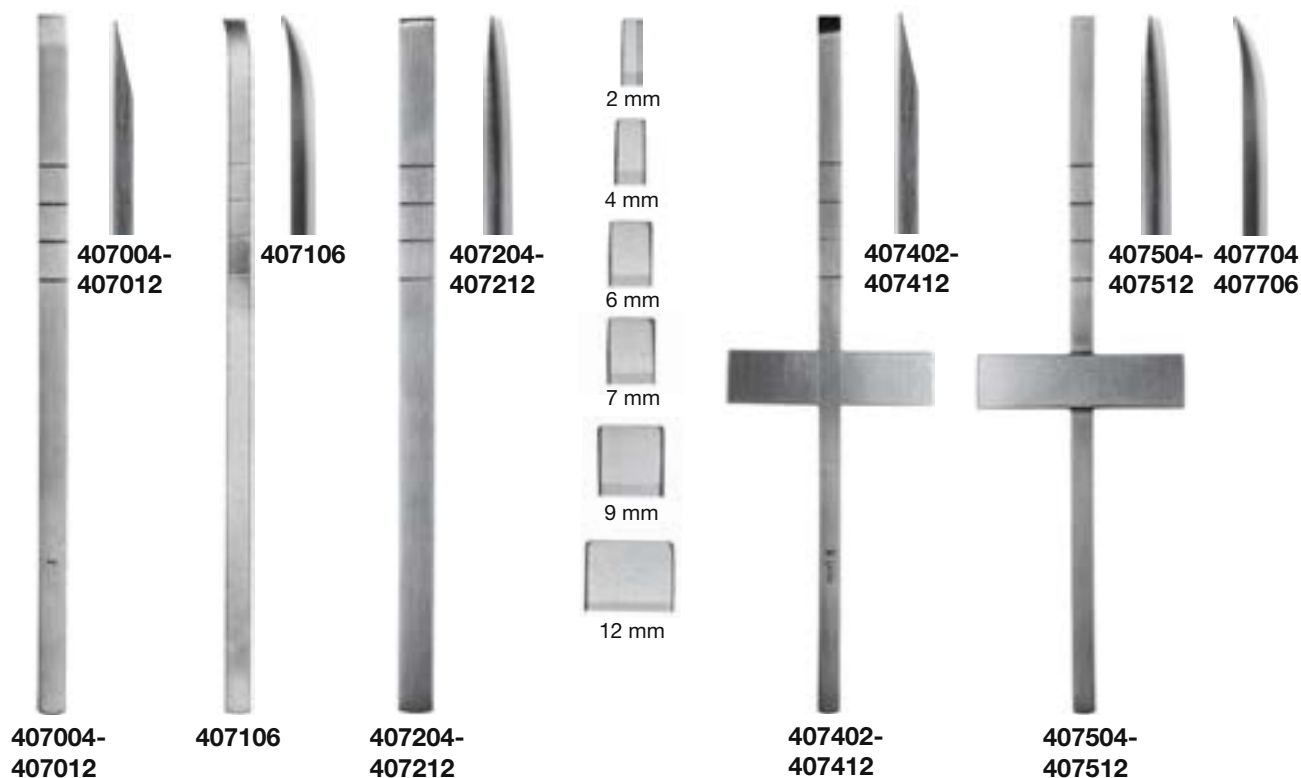


319001	BALLENGER Swivel Knife, bayonet shaped, 19.5 cm, 3 mm wide
319002	same, 4 mm
320001	FREER Septum Chisel, 4 mm, straight
320002	same, curved
321000	KILLIAN-CLAUS Septum Gouge, bayonet, 5 mm wide, 16.5 cm long
321100	same, V-shaped cutting edge
402003	McKENTY Elevator, 14.5 cm, 3 mm
402004	same, 4 mm
402005	same, 5 mm



- 402500 McKENTY Elevator, double-end, 21.5 cm**
- 404500 COTTLE Elevator, double-end, graduated, blunt, 23 cm**
- 405000 MASING Elevator, double-end, graduated, sharp and blunt, 21.5 cm**
- 405500 COTTLE Tunneling Elevator, double-end, strong and slight curved, 22.5 cm**
- 405600 PENNINGTON Elevator, double-end, for right and left side, 20 cm**
- 405800 GORNEY Suction Elevator, with mandrin, 3 mm tip, 19 cm**
- 460000 GUILLEN Suction Elevator, bayonet shaped, 22 cm**
- 460100 same, tip curved to left**
- 460200 same, tip curved to right**

Osteotomes, Chisels, Gauges, Mallets

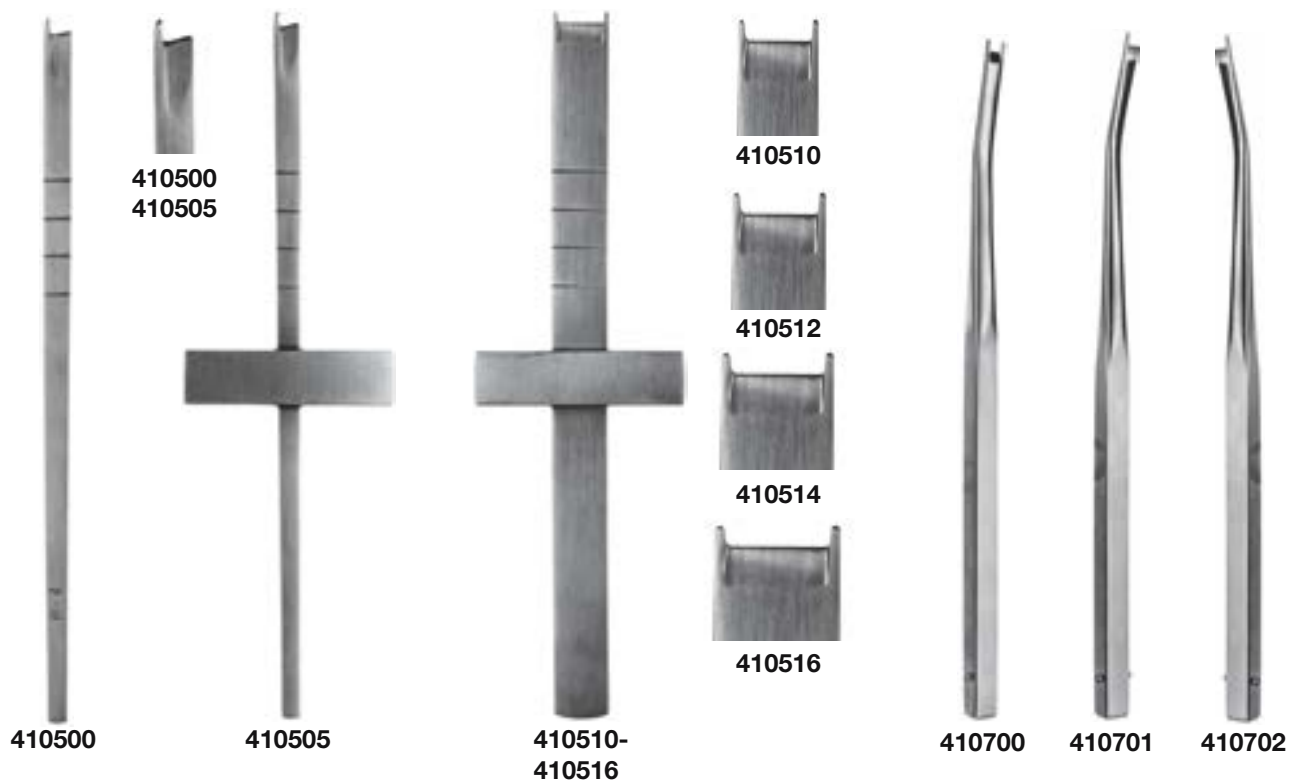


407004 COTTLE Chisel, graduated, straight, 18.5 cm, 4 mm
 407007 same, 7 mm
 407009 same, 9 mm
 407012 same, 12 mm
 407106 same, curved, 6 mm

407204 COTTLE Osteotome, graduated, straight, 18.5 cm, 4 mm
 407206 same, 6 mm
 407209 same, 9 mm
 407212 same, 12 mm

407402 COTTLE Chisel, with crossbar, straight, 18.5 cm, 2 mm
 407404 same, 4 mm
 407407 same, 7 mm
 407409 same, 9 mm
 407412 same, 12 mm

407504 COTTLE Osteotome, with crossbar, straight, 18.5 cm, 4 mm
 407506 same, 6 mm
 407509 same, 9 mm
 407512 same, 12 mm
 407704 same, curved, 4 mm
 407706 same, curved, 6 mm



410500 COTTLE Osteotome, single guard, straight,
18.5 cm, 5 mm
410505 same, with crossbar, 5 mm

410510 COTTLE Osteotome, with crossbar, double guard,
straight, 18.5 cm, 10 mm
410512 same, 12 mm
410514 same, 14 mm
410516 same, 16 mm

410700 Osteotome "Wuerzburger Model", curved, 18 cm,
3 mm, double guard
410701 same, single guard left
410702 same, single guard right

Osteotomes, Chisels, Gauges, Mallets

(cont.)



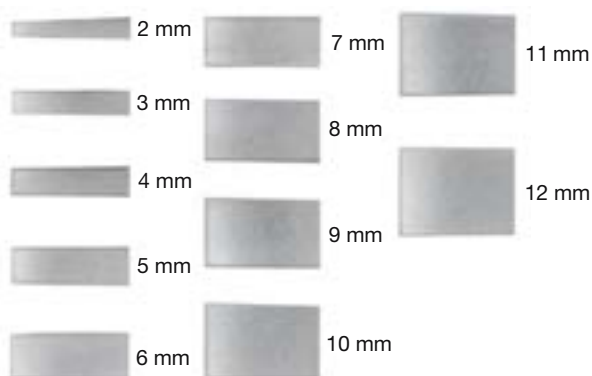
407602-
407612



407302-
407306



407324-
407326



407602 SHEEHAN (RUBIN) Osteotome, straight, hexagon handle, 16 cm, 2 mm

407603 same, 3 mm

407604 same, 4 mm

407605 same, 5 mm

407606 same, 6 mm

407607 same, 7 mm

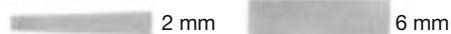
407608 same, 8 mm

407609 same, 9 mm

407610 same, 10 mm

407611 same, 11 mm

407612 same, 12 mm



407302 Mini-Osteotome, straight, 12.5 cm, 2 mm

407304 same, 4 mm

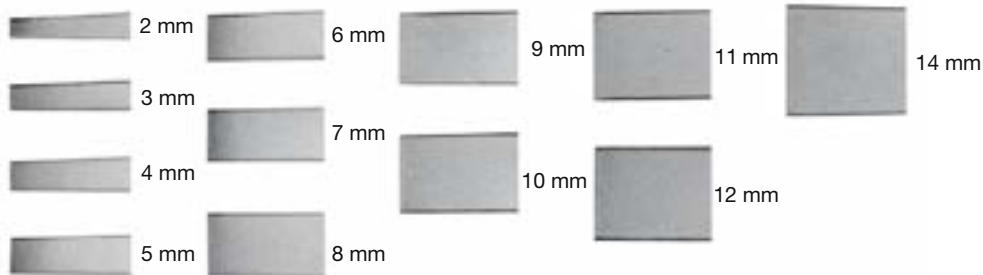
407306 same, 6 mm

407324 Mini-Osteotome, curved, 12.5 cm, 4 mm

407326 same, 6 mm



407802-407814



- 407802 CONVERSE Osteotome, 18 cm, 2 mm
- 407803 same, 3 mm
- 407804 same, 4 mm
- 407805 same, 5 mm
- 407806 same, 6 mm
- 407807 same, 7 mm
- 407808 same, 8 mm
- 407809 same, 9 mm
- 407810 same, 10 mm
- 407811 same, 11 mm
- 407812 same, 12 mm
- 407814 same, 14 mm



407902



407900

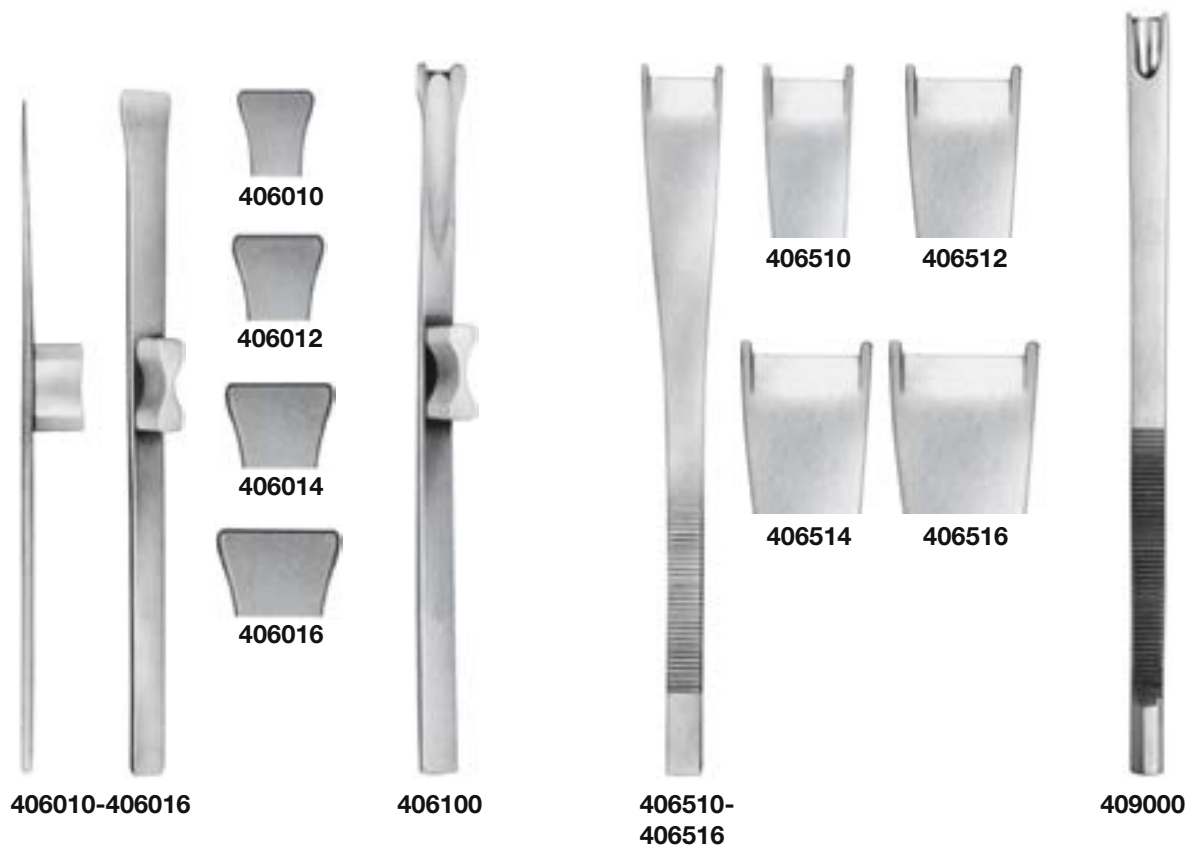


407901

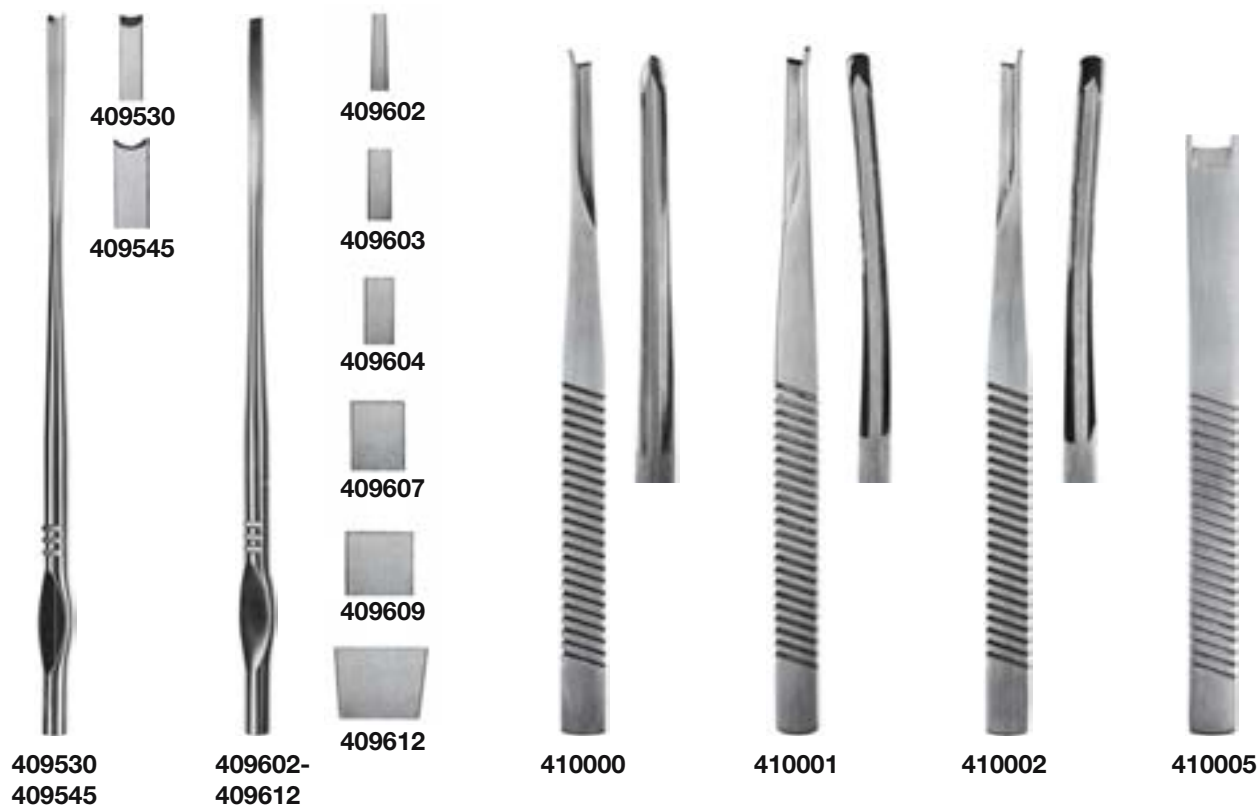
- 407900 CONVERSE Osteotome, single guard, 19 cm, straight, for right and left use
- 407901 same, curved left
- 407902 same, curved right

Osteotomes, Chisels, Gauges, Mallets

(cont.)



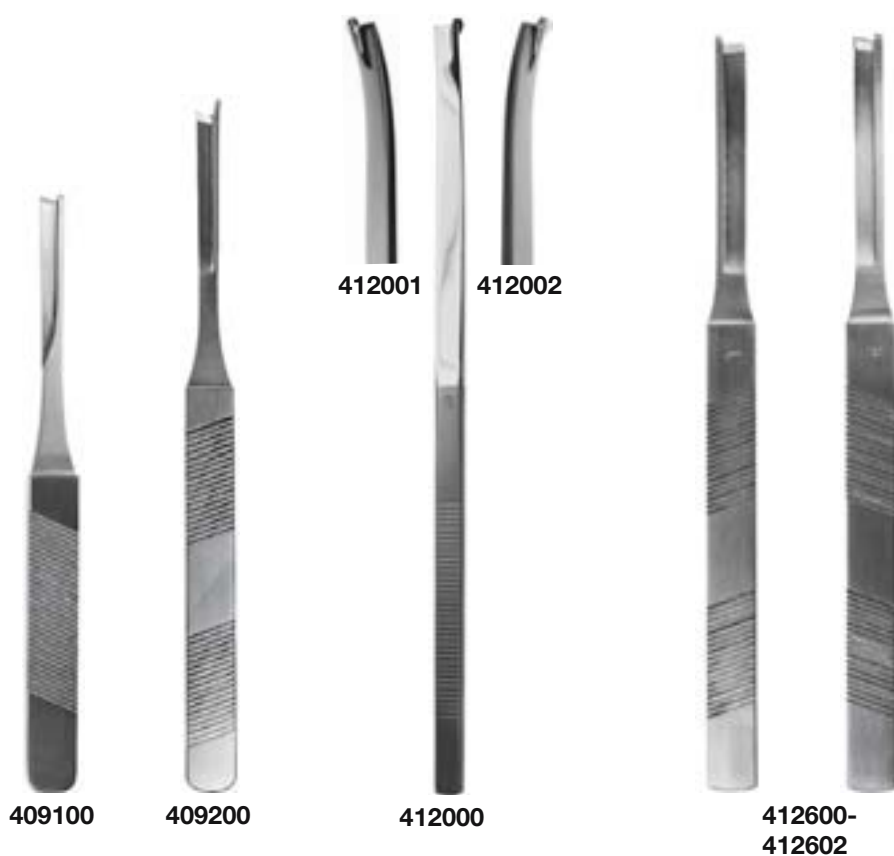
406010	RUBIN Osteotome, with stabilizer, 16 cm, 10 mm
406012	same, 12 mm
406014	same, 14 mm
406016	same, 16 mm
406100	RUBIN Gouge, with stabilizer, 16.5 cm
406510	CINELLI Osteotome, double guard, 16.5 cm, 10 mm
406512	same, 12 mm
406514	same, 14 mm
406516	same, 16 mm
409000	PARKES Hump Gouge, 18 cm, 6.5 cm



- 409530 WALTER Gouge, 19 cm, 3 mm
 409545 same, 4.5 mm
- 409602 WALTER Osteotome, 19 cm, 2 mm
 409603 same, 3 mm
 409604 same, 4 mm
 409607 same, 7 mm
 409609 same, 9 mm
 409612 same, 12 mm
- 410000 MASING Chisel, with guard, slightly curved, 18 cm,
 straight, for right and left use
 410001 same, left curved
 410002 same, right curved
 410005 same, straight, 16 cm, double guard, 10 mm cutting-width

Osteotomes, Chisels, Gauges, Mallets

(cont.)



409100	PARKES Osteotome, single guard, 16 cm
409200	same, long slender type, 18 cm
412000	NEIVERT Osteotome, single guard, 20.5 cm, straight, for use of right and left
412001	ANDERSON-NEIVERT Osteotome, 20.5 cm, curved left
412002	same, curved right
412600	RISTOW Osteotome, 20 cm, single guard, straight, for right and left use (without illustration)
412601	same, curved left
412602	same, curved right



413000

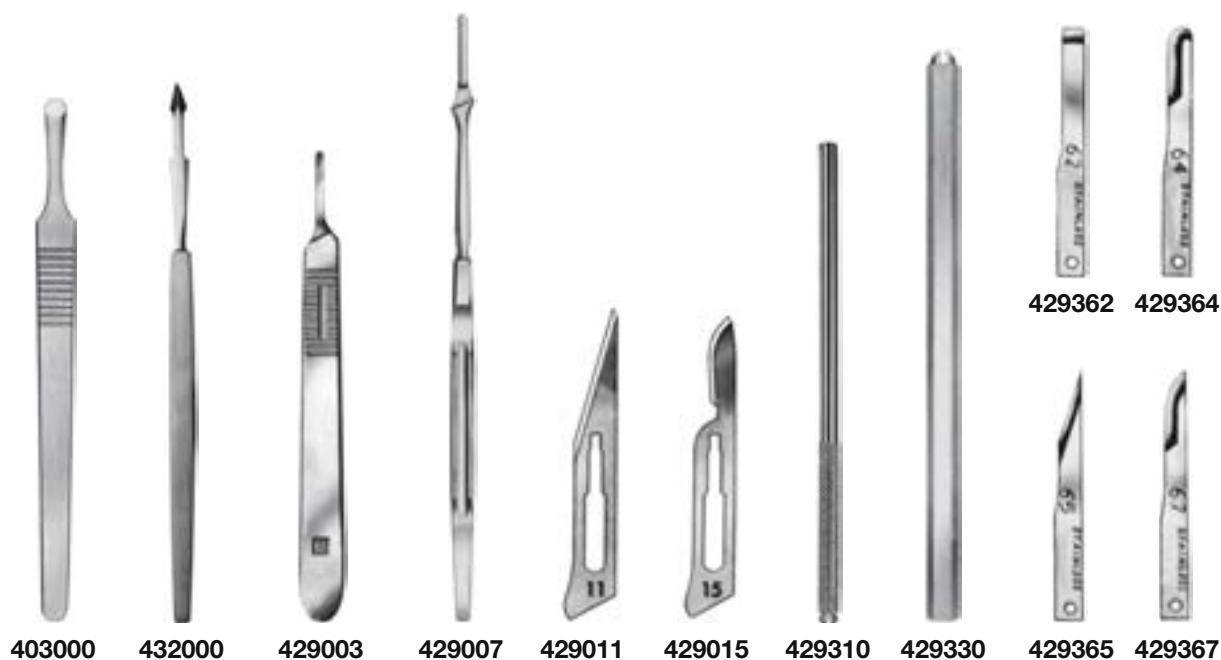


413500
413501

413000 COTTLE Mallet, 18 cm, 335 g, with black handle

**413500 Metal Mallet with replaceable nylon caps,
18.5 cm, 200 g, 25 mm Ø**

413501 NYLON Facings only (pair) for mallet 413500

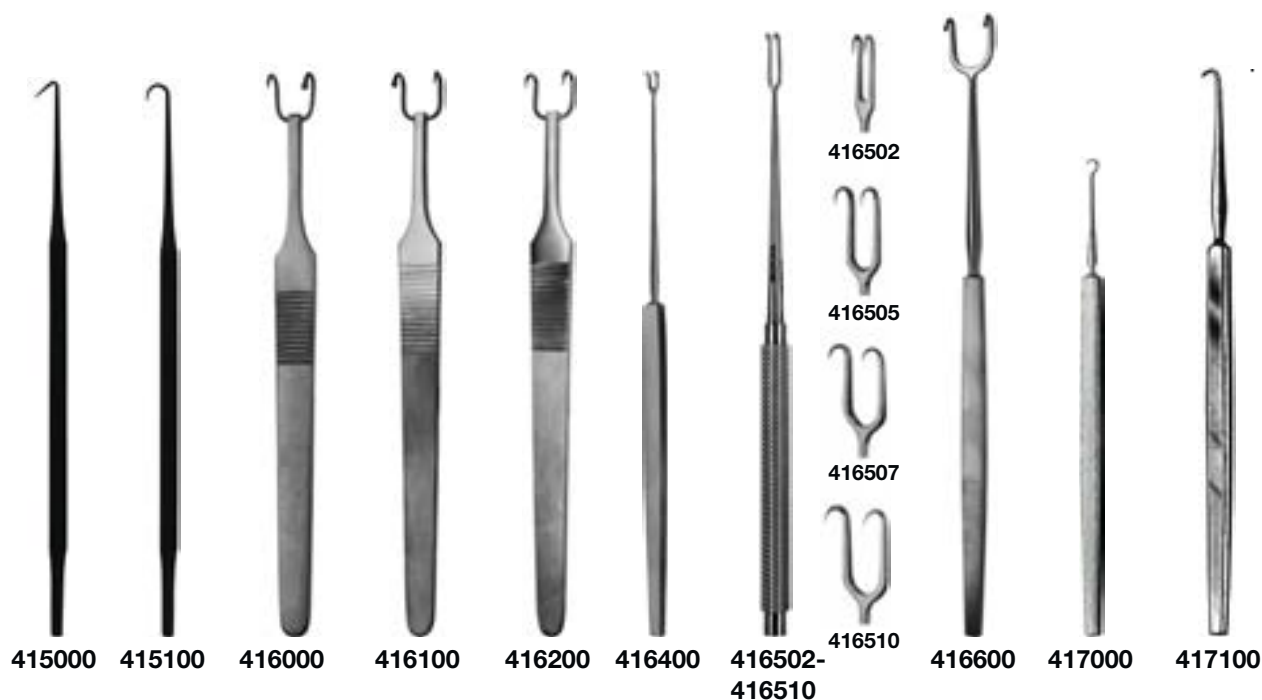


- 403000** COTTLE Nasal Knife, rounded edges, 13.5 cm
- 432000** MASING Nasal Knife, slightly curved, rounded tip, 14 cm
- 429003** Scalpel Handle No. 3, solid, 12.5 cm
- 429007** Scalpel Handle No. 7, long, 16 cm
- 429011** Scalpel Blades size 11, each sterile, pack of 100 pieces
- 429015** same, size 15
- 429310** Micro Scalpel Handle, rounded tip, 12.5 cm,
for blades 429362-429367
- 429330** same, hexagonal, 15 cm, for blades 429362-429367
- 429362** Micro Scalpel Blades, each sterile, Pack of 24 pieces, size 62
- 429364** same, size 64
- 429365** same, size 65
- 429367** same, size 67

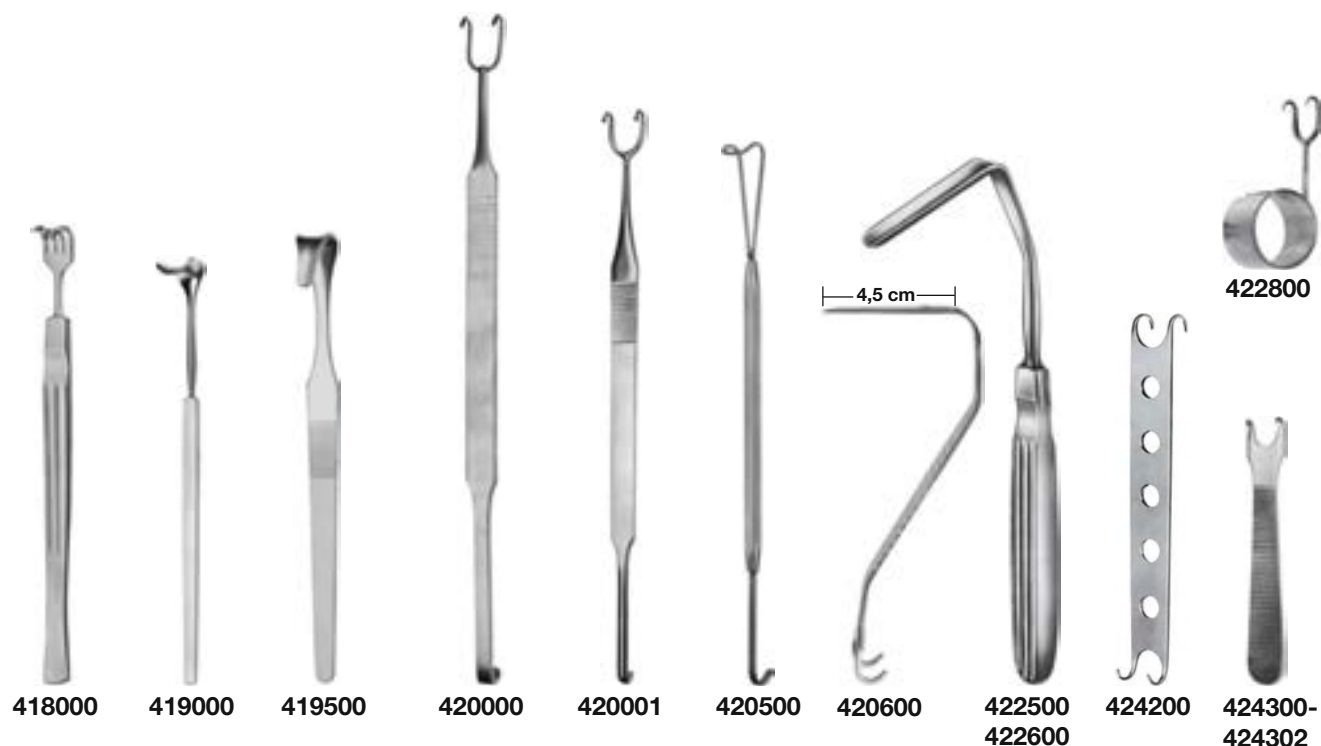


- 434000 JOSEPH Button-end Knife, straight, 15 cm
 434100 same, curved - dito, gebogen
- 435000 JOSEPH Nasal Knife, straight, pointed tip, 15 cm
 435100 same, curved, tip pointed
 435200 same, straight, tip blunt
 435300 same, curved, tip blunt
- 436000 FOMON Double-Edge Knife, double-cutting, curved, blunt tip, 15.5 cm

Hooks, Retractors



- 415000** COTTLE Tenaculum Hook, delicate, angled, black finish, 14.5 cm
- 415100** same, curved, black finish
- 416000** COTTLE Double Hook, 10 mm wide, 15 cm long, blunt prong on right, sharp prong on left side
- 416100** same, sharp prong on right, blunt prong on left side
- 416200** same, sharp prongs on both sides
- 416400** FREER Double Hook, sharp, 15 cm
- 416502** JOSEPH Double Hook for Plastic Surgery, 16 cm, sharp, 2 mm wide
- 416505** same, 5 mm
- 416507** same, 7 mm
- 416510** same, 10 mm
- 416600** FOMON Nasal Hook, 2 blunt prongs, 10 mm wide, 16.5 cm long
- 417000** FRAZIER Dura and Skin Hook, 12.5 cm
- 417100** COTTLE Hook, sharp, 15 cm



418000 COTTLE Retractor, blunt, 4 prongs, 15 cm

419000 COTTLE Alar Retractor, short blade, 14 cm

419500 COTTLE Alar Retractor, with lip, 15 cm

420000 COTTLE-NEIVERT Knife Guide and Retractor, large U.S.-pattern, 22 cm

420001 same, small pattern, 19 cm

420500 NEIVERT Knife Guide and Retractor, wire-shape, 18 cm

420600 WALTER Nasal Retractor, double-ended, 12.5 cm

422500 AUFRIEHT Nasal Retractor, 60 mm blade length, 17 cm

422600 same, 45 mm blade length

422800 COTTLE (MILLARD) Thimble Hook, sharp, 5.5 cm

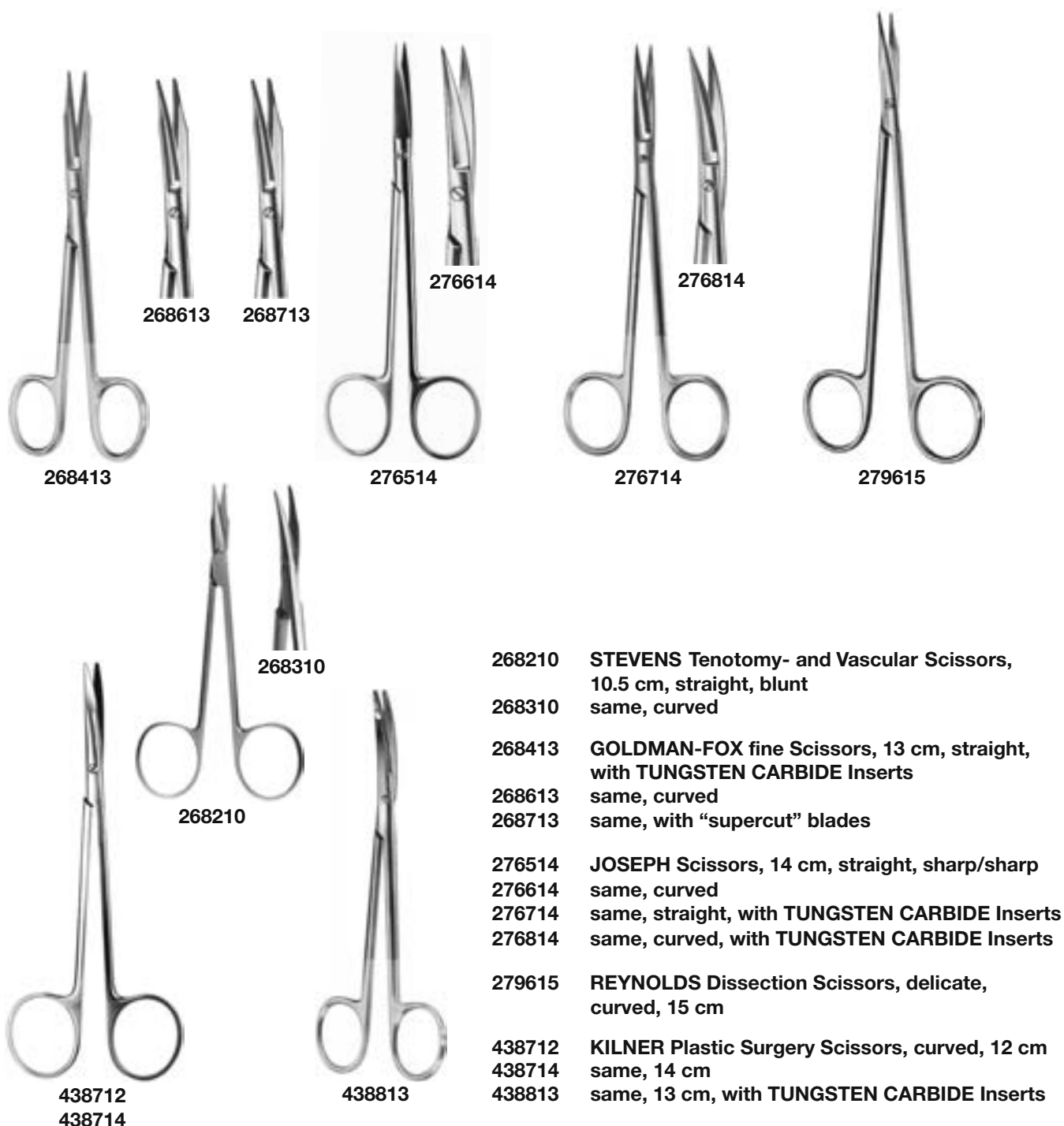
424200 CONVERSE Alar Hook, double-ended, blunt/blunt, 12 cm

424300 KILNER Alar Retractor, 8.5 cm, two sharp points, 10 mm wide

424301 same, two blunt points (without illustr.)

424302 same, two sharp points, 13 mm wide (without illustration)

Scissors





277010
277212



277110
277312

- 277010** Scissors, 10.5 cm, blunt/blunt, straight
277110 same, curved
277212 Scissors, 11.5 cm, blunt/blunt, straight
277312 same, curved



277510
277712



277610
277812

- 277510** Scissors, 10.5 cm, sharp/sharp, straight
277610 same, curved
277712 Scissors, 11.5 cm, sharp/sharp, straight
277812 same, curved

- 277012** Scissors, 11.5 cm, blunt/blunt,
TUNGSTEN CARBIDE Inserts, straight
277112 same, curved
277512 same, sharp/sharp, straight
277612 same, sharp/sharp, curved



277012



277112



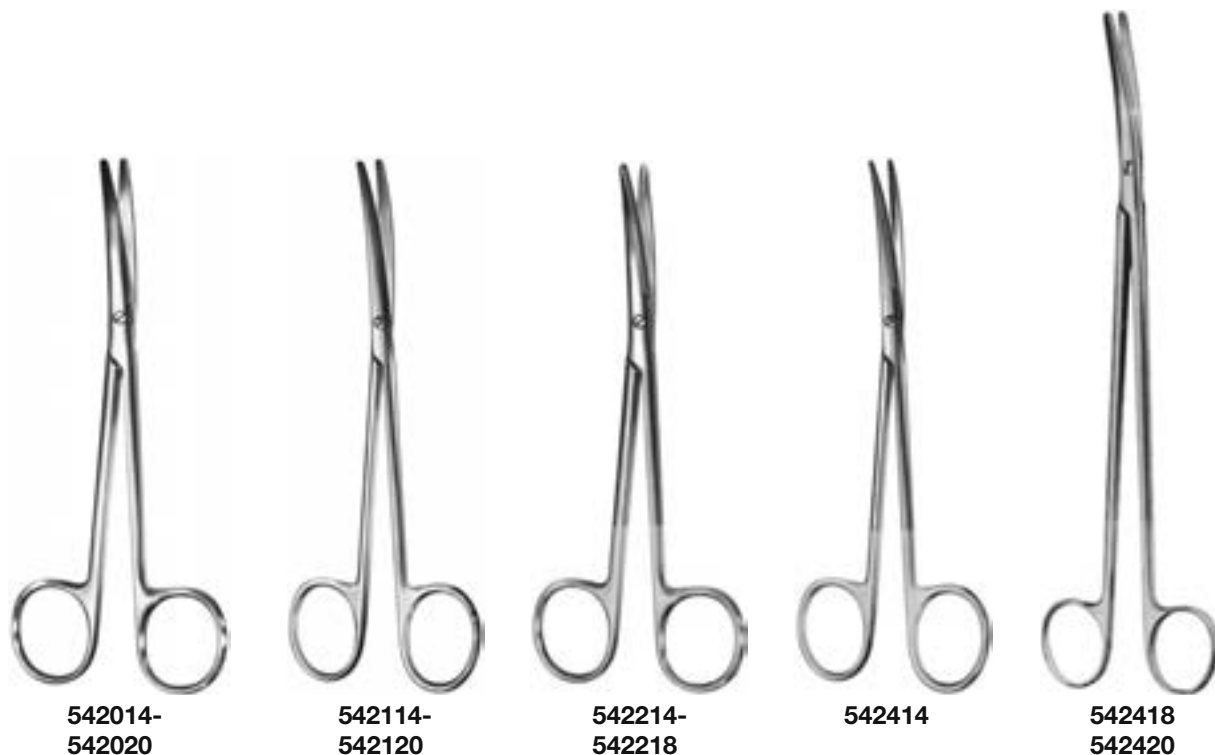
277512



277612

Scissors

(cont.)



542014	METZENBAUM Dissection Scissors, curved, blunt/blunt, 14.5 cm
542018	same, 18 cm
542020	same, 20 cm
542114	METZENBAUM-FINO Dissection Scissors, curved, delicate, blunt/blunt, 14.5 cm
542118	same, 18 cm
542120	same, 20 cm
542214	METZENBAUM Dissection Scissors, curved, blunt/blunt, with TUNGSTEN CARBIDE Inserts, 14.5 cm
542218	same, 18.0 cm
542414	METZENBAUM-FINO Dissection Scissors, curved, delicate, blunt/blunt, with TUNGSTEN CARBIDE Inserts, 14.5 cm
542418	same, 18.0 cm
542420	same, 20.5 cm



438410



438512



438612



439000
439001
439002 TC-Gold



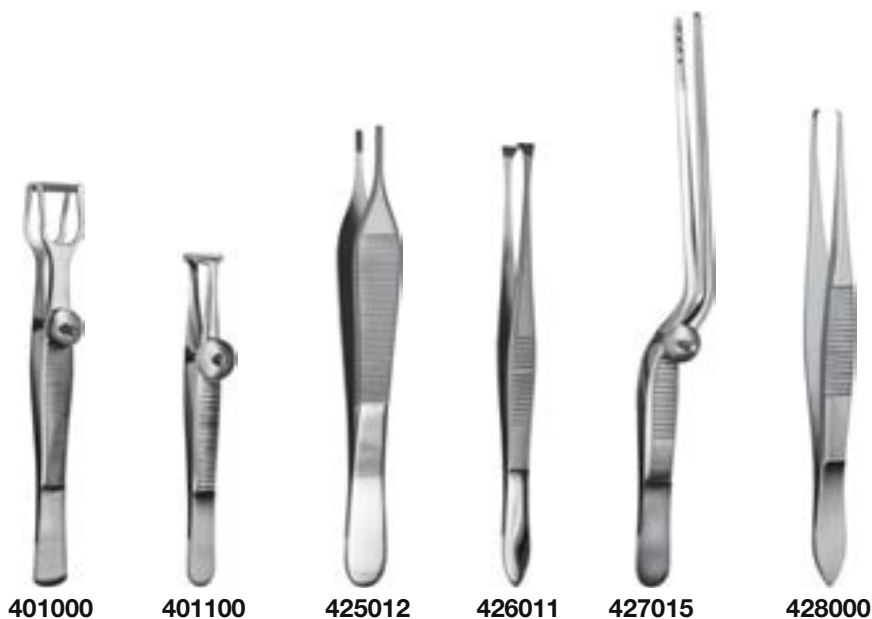
439100

- 438410 WALTER Scissors, angled, 10 cm
- 438512 FOMON-COTTLE Lower Lateral Scissors, strong curve, 12 cm
- 438612 FOMON Scissors, double blade, curved, 12 cm
- 439000 FOMON Dorsal Scissors, angular, delicate, serrated blades, 13.5 cm
- 439001 same, smooth blades
- 439002 same, blades with TUNGSTEN CARBIDE Inserts
- 439100 COTTLE Dorsal Scissors, angular, smooth blades, heavy pattern, 16 cm
- 439200 same, blades with TUNGSTEN CARBIDE Inserts

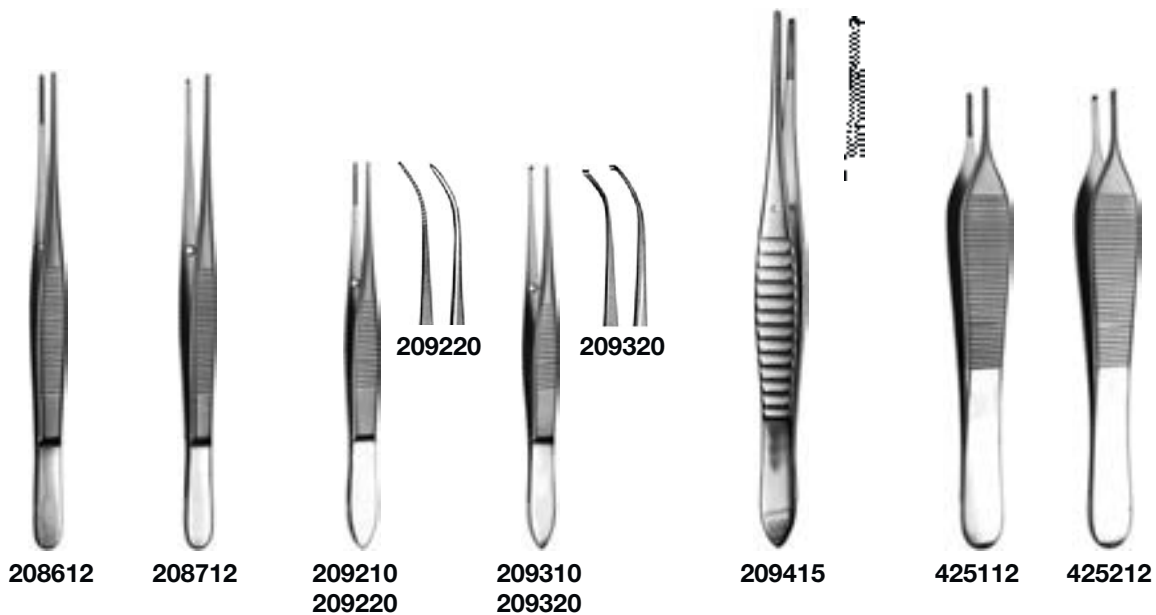


439200

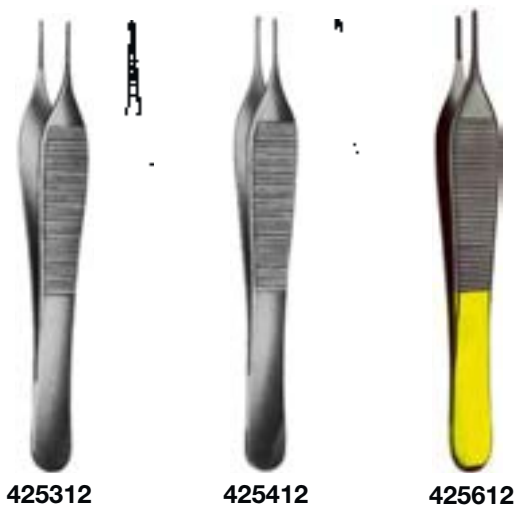
Nasal Forceps



401000	COTTLE Columella Forceps, 10.5 cm
401100	COTTLE Columella Forceps for children, 8.5 cm
425012	ADSON-BROWN Tissue Forceps, 7x7 side grasping teeth, 12 cm
426011	GRAEFE Tissue and Fixation Forceps, 7x8 teeth, 11 cm
427015	COTTLE Lower Lateral Forceps, bayonet-shaped, 15 cm, with fixation screw, serrated and with thorns
428000	HINDERER Cartilage Forceps, 2x2 teeth, 12.5 cm



- 208612 SEMKEN Dressing Forceps, delicate, straight, 12.5 cm
- 208712 SEMKEN Tissue Forceps, delicate, straight, 12.5 cm
- 209210 GRAEFE Iris Forceps, serrated, straight, very delicate, tip 0.7 mm, 10 cm long
- 209220 same, curved
- 209310 GRAEFE Iris Forceps, straight, tip 0.7 mm, 10 cm long, 1x2 teeth
- 209320 same, 1x2 teeth, curved
- 209415 GILLIES Tissue Forceps, 15 cm
- 425112 ADSON Dressing Forceps, delicate, 12 cm
- 425212 ADSON Tissue Forceps, delicate, 12 cm



- 425312 MICRO-ADSON Dressing Forceps, very delicate, 12 cm
- 425412 MICRO-ADSON Tissue Forceps, very delicate, 12 cm
- 425612 ADSON Dressing Forceps, delicate, 12 cm, with TUNGSTEN CARBIDE Inserts

Needle Holders



213015



213113



467017



467115



465013



468009

- 213015 CRILE-WOOD Needle Holder,
TUNGSTEN CARBIDE Inserts, 15 cm
- 213113 HALSEY Needle Holder,
TUNGSTEN CARBIDE Inserts, 13 cm
- 465013 NEIVERT Needle Holder,
with special grooves, 13 cm
- 467017 SENNING Needle Holder, slender shape,
TUNGSTEN CARBIDE Inserts, 17 cm
- 467115 same, 15 cm
- 468009 MASING-COTTLE Needle Holder, ear
forceps shape, smooth jaws, w.l. 9 cm



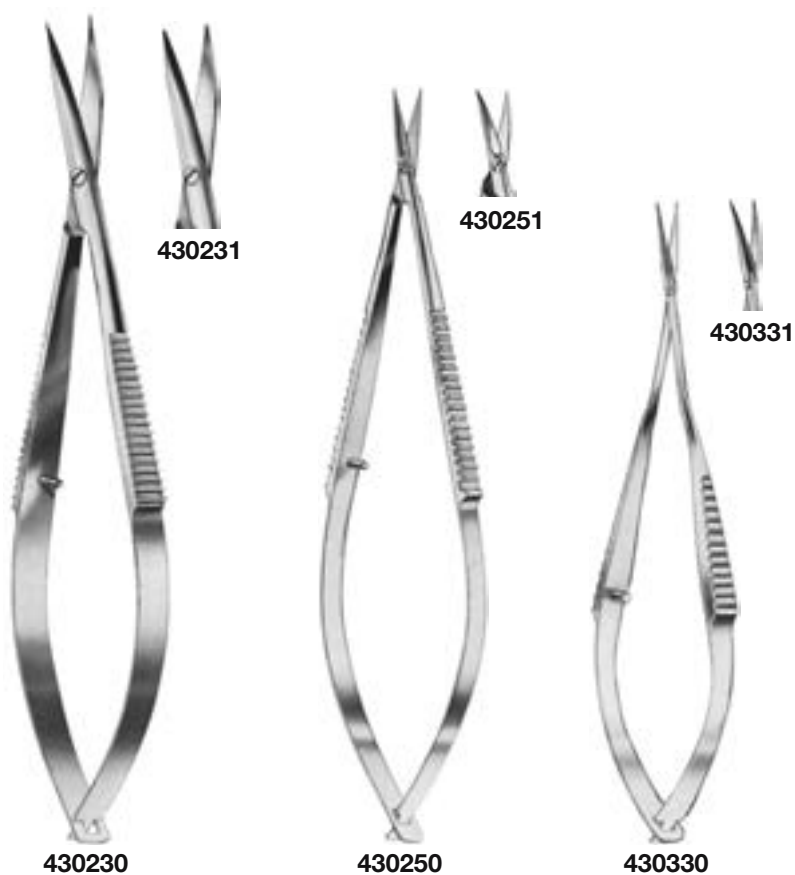
430432-

430452

430432 CASTROVIEJO Micro Needle Holder, very delicate, straight, with lock, 14 cm

430452 CASTROVIEJO Micro Needle Holder with TUNGSTEN CARBIDE Inserts, straight, smooth jaws, with lock, 14 cm

Scissors, Yankauer Septum Needles



430230	WESTCOTT Tenotomy Scissors, curved, 11 cm, pointed
430231	same, blunt tips
430250	Micro Iris Scissors, pointed, 6 mm blade, 10 cm, straight
430251	same, curved
430330	VANNAS Micro Scissors, very delicate, blade length 10 mm, total length 8.5 cm, straight
430331	same, curved



**479000 CASTROVIEJO Caliper,
20 mm scale, 7 cm long**

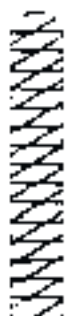
479000

Nasal Rasps



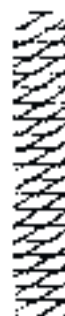
1

452001



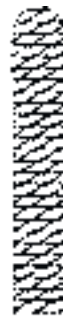
3

452002



5

452003



7

452004



9

452005

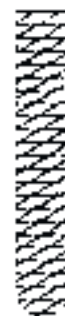
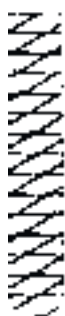
2

4

6

8

10



- 452001 Nasal Rasp, double-ended, with TUNGSTEN CARBIDE Inserts, 20 cm, size 1 and 2 = coarse
- 452002 same, size 3 and 4 = coarse and medium
- 452003 same, size 5 and 6 = medium
- 452004 same, size 7 and 8 = medium and fine
- 452005 same, size 9 and 10 = fine



453501
453502

453503
453504

453520

- 453501 MALTZ Nasal Rasp, with blood-groove,
- TUNGSTEN CARBIDE Inserts, down-cutting, 16.5 cm
- 453502 same, up-cutting
- 453503 MILLER Nasal Rasp, double-ended,
- with TUNGSTEN CARBIDE Inserts, 16 cm, No. 1
- 453504 same, No. 2
- 453520 AUFRICHT Glabella Nasal Rasp,
- with TUNGSTEN CARBIDE Inserts, 20.5 cm

Nasal Rasps

(cont.)



- 453000 COTTLE-MASING Nasal Rasp, double-ended, fine, 21.5 cm
453100 COTTLE-MASING Nasal Rasp, double-ended, coarse, 21.5 cm
453200 KLEINERT-KUTZ (FOMON) Nasal Rasp, double-ended, 4-sided,
each of 2 sides fine (flat) and coarse (convex), 20.5 cm
453500 MALTZ Nasal Rasp, large, down-cutting, 16 cm
453600 same, small, down-cutting
453700 same, large, up-cutting
453800 same, small, up-cutting



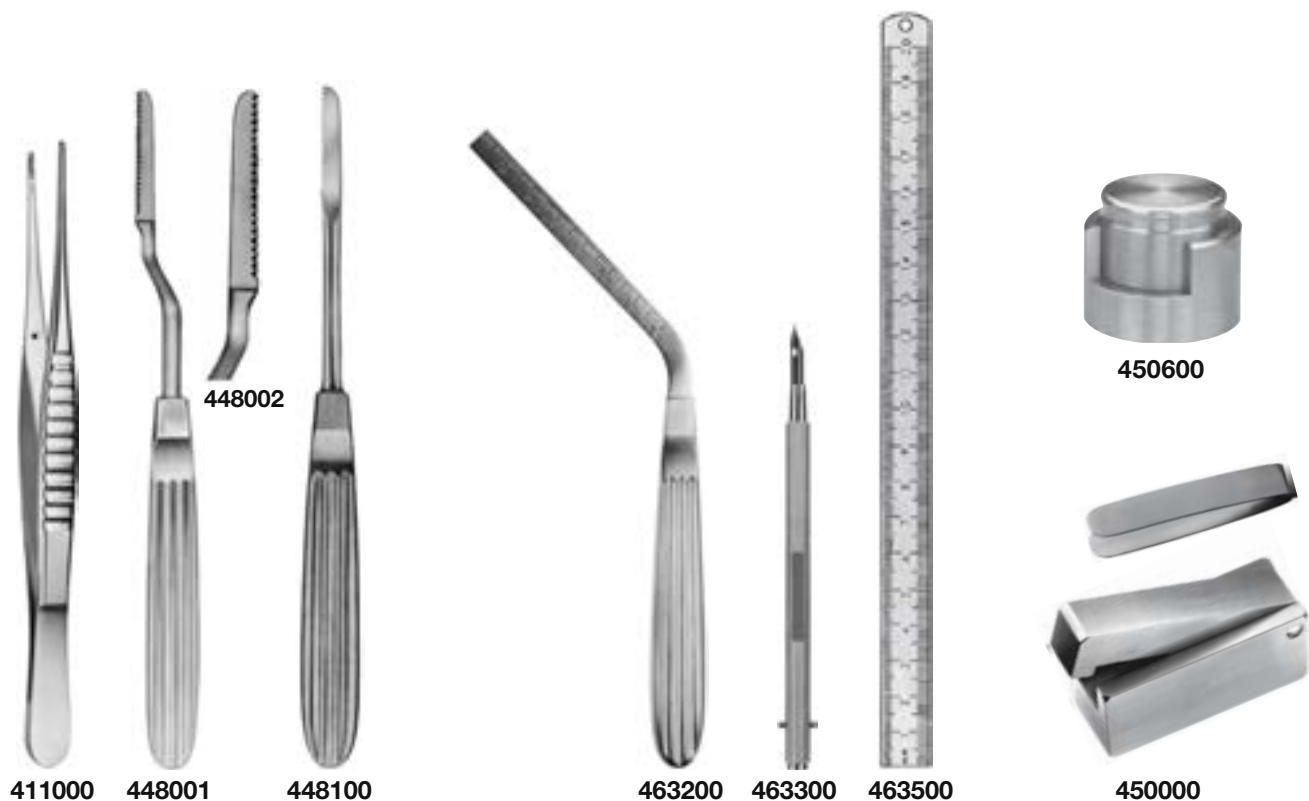
- 454000 COTTLE Nasal Rasp, down-cutting, 21 cm**
- 454400 AUFRICHT Glabella Rasp, up- and down-cutting, 21 cm**
- 454500 same, down-cutting**
- 454600 same, up-cutting**
- 456600 LEWIS Nasal Rasp, fine teeth, down-cutting, 18 cm**
- 456700 same, coarse teeth**

Diamond Rasps

- 457100 COTTLE Nasal Rasp with INDUSTRIAL DIAMONDS, 20.5 cm**
(Industrial Diamond abrading surfaces replace the conventional steel ridges to give easier handling and greater accuracy with less effort. A large amount of bone can be removed with a fine degree of precision).
- 457200 AUFRICHT DIAMOND Nasal Rasp, 20.5 cm**
- 457301 Nasal DIAMOND Rasp, 19 cm, straight**
- 457303 same, curved backward**
- 457400 FOMON DIAMOND Nasal Rasp, double-ended, 21 cm**



Cartilage Shaping Instruments



- 411000 COTTLE Cartilage Insertion Forceps, 15.5 cm
- 448001 JOSEPH Nasal Saw, bayonet-shaped, crossed teeth, 18 cm, left
- 448002 same, right
- 448100 same, straight
- 450000 COTTLE Bone and Cartilage Crusher with clamp, 28 mm wide
- 450600 TOLSDORFF Bone and Cartilage Crusher round,
to press pieces of bone up to 4 cm Ø evenly extended in all directions
- 463200 JOSEPH Measuring Instrument, mm and cm scale, 17 cm
- 463300 Pen Holder with 2 points, 11.5 cm
- 463301 Pen Point only, for 463300
- 463500 Measuring Rule, metal, flexible, 20 cm



443000



444000

444000



444101



444102



445000

443000 COTTLE-WALSHAM Septum Straightening Forceps, 21.5 cm, detachable

444000 COTTLE-WALSHAM Septum Straightening Forceps, straight, for both sides, 23 cm

444101 same, left

444102 same, right

445000 ASH Septum Straightening Forceps, 22 cm

460500 Nasal Fracture Elevator, heavy pattern, 17 cm

461000 BOIES Nasal Fracture Elevator, blunt, oval blade, 8 mm blade-width, 18.5 cm

461100 GOLDMAN, Septum Displacer, round, conical shape, 19.5 cm



460500



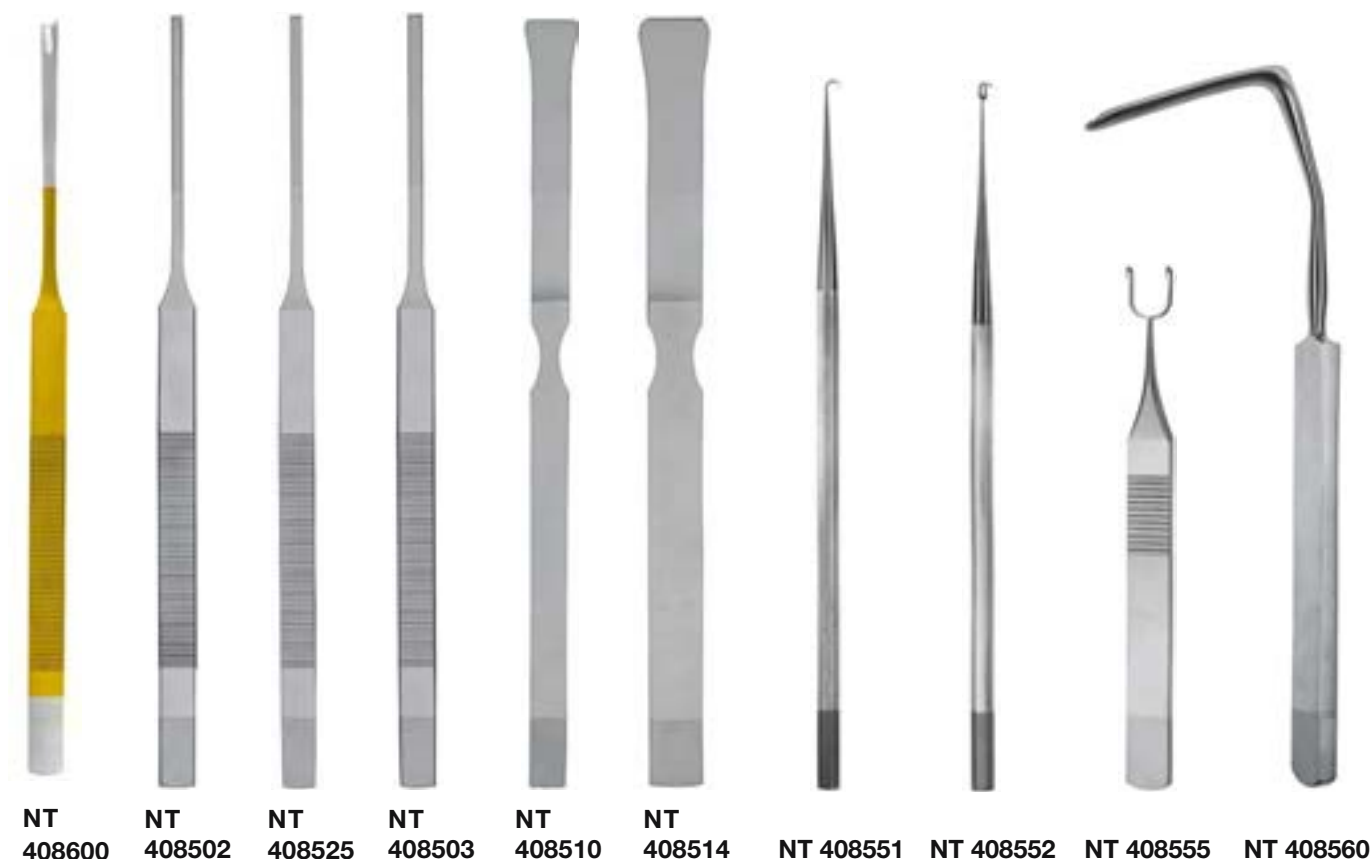
461000



461100

Rhinoplastic Surgery Set

by Prof. Dr. G. J. Nolst Trenité

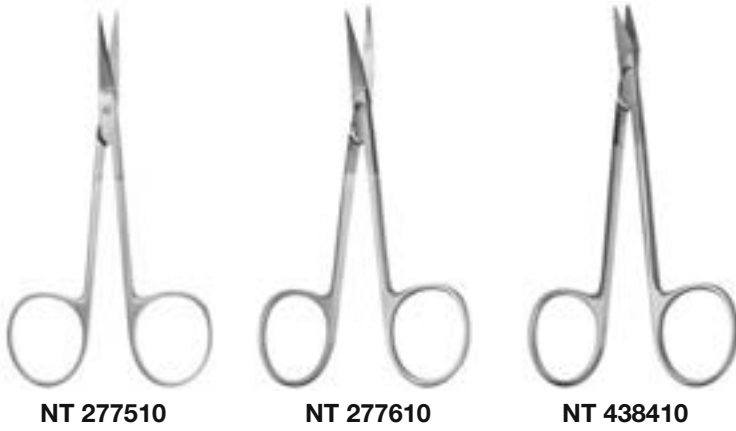


The NT Instrument Set comprises of a number of extremely high quality instruments for use in the rhinoplastic surgery. These precision instruments are gold finished and have been carefully designed to supplement the standard septal instrument set. When these superb instruments are applied using contemporary surgical techniques, the surgeon achieves better results, since substantial post-operative ecchymosis and oedema are significantly reduced. Scar tissue and hematomes are also minimised with the NT Instrument set.

Literature:
G.J. NOLST TRENIÉ
RHINOPLASTY: A practical guide to functional and aesthetic surgery of the nose
Kugler Publications, Amsterdam/New York

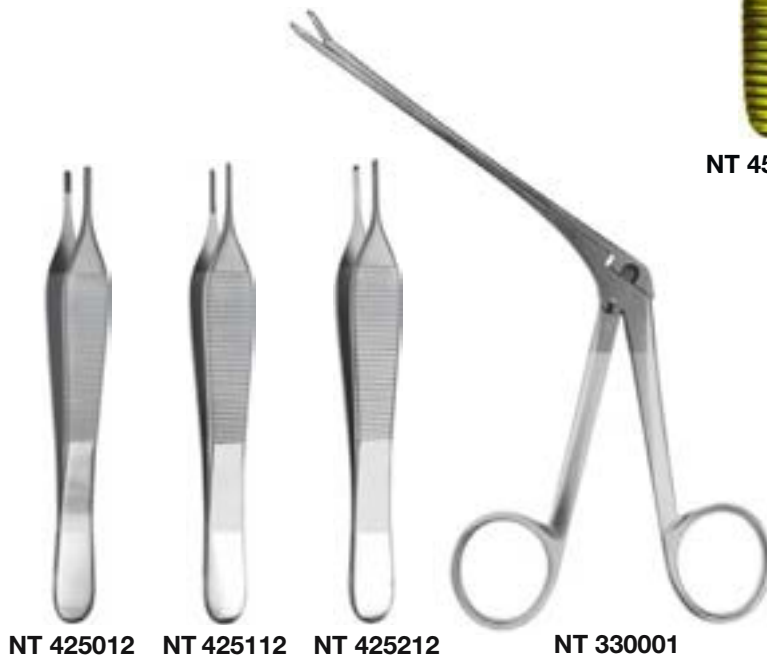
The NT Rhinoplastic Surgery Set includes the following ergonomic designed instruments:

- NT 408600 Micro Osteotome, with guard, 2.2 mm
- NT 408502 Micro Osteotome, 2 mm
- NT 408525 Micro Osteotome, 2.5 mm
- NT 408503 Micro Osteotome, 3 mm
- NT 408510 Hump Osteotome, 10 mm
- NT 408514 Hump Osteotome, 14 mm
- NT 408551 Micro Skin Hook, 1 prong
- NT 408552 Micro Skin Hook, 2 prongs width 2 mm
- NT 408555 Skin Hook, 2 prongs, width 10 mm
- NT 408560 Nasal Retractor, Aufricht type



Complementary instruments for the NT-Set:

- NT 277510 Rhinoplasty Scissors, straight, sharp, 10 cm
- NT 277610 same, curved
- NT 438410 Angled Scissors, 10 cm, Walter type
- NT 425012 Tissue Forceps, side grasping teeth, 12 cm, Adson-Brown type
- NT 425112 Dressing Forceps, 12 cm, Adson type
- NT 425212 Tissue Forceps, 12 cm, Adson type
- NT 330001 Nasal Forceps, delicate, Blakesley type
- NT 438714 Dissection Scissors, 14 cm, Kilner type
- NT 213113 Needle Holder, 13 cm, TUNGSTEN CARBIDE Inserts, Halsey type
- NT 454400 Glabella Rasp
- NT 208003 Periosteal Elevator, 3 mm, Joseph type
- NT 452003 Nasal Rasp, double ended, TUNGSTEN CARBIDE Inserts, 20 cm, medium
- NT 452004 same, medium and fine



EXPLORENT SURGICAL INSTRUMENTS

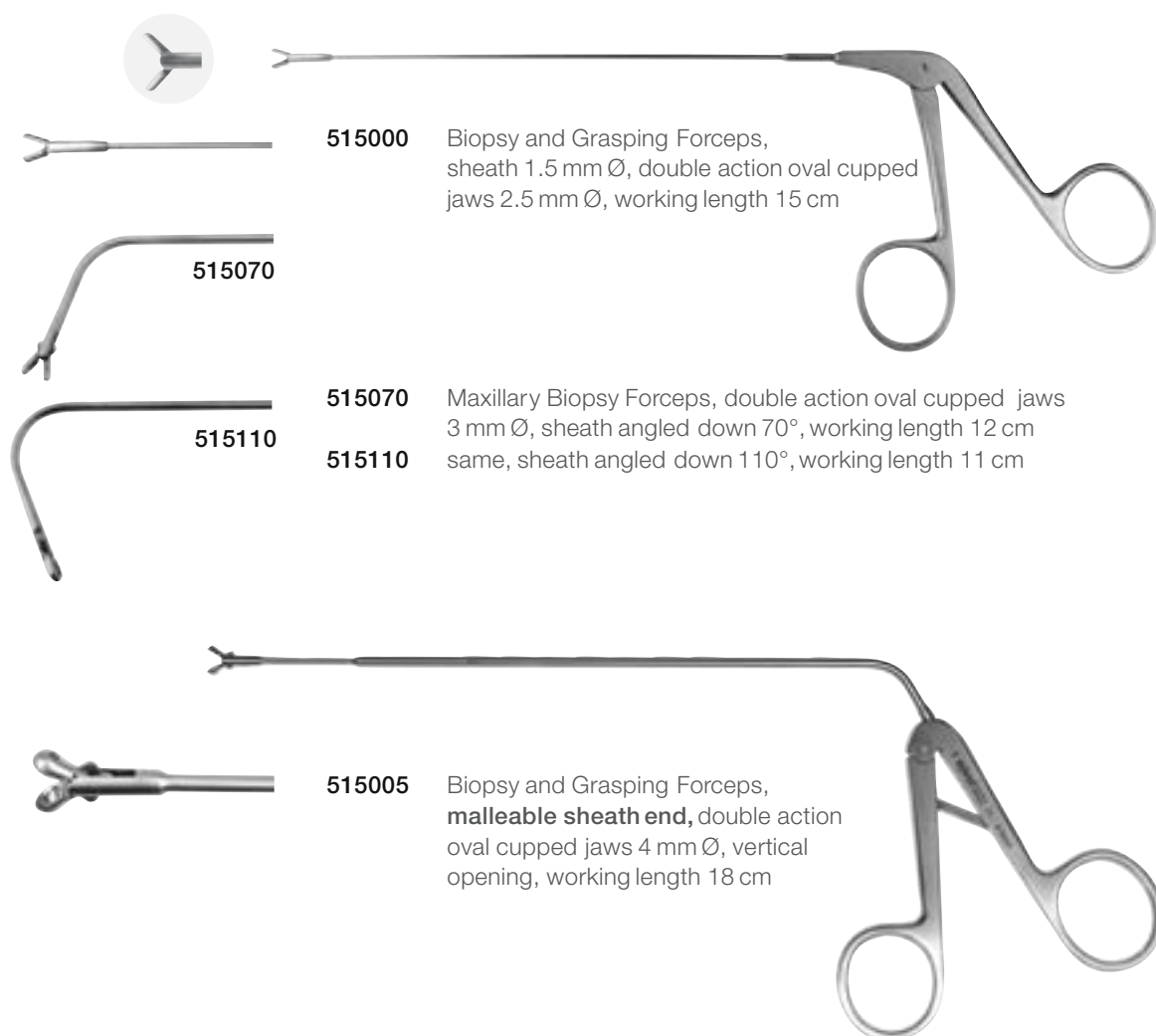
Forceps, Trocars	SIN-105	Suction Punches	SIN-160
Cannula, Elevators, Knives, Suction Tubes	SIN-110	Punches	SIN-165
Forceps, Suction Tubes	SIN-115	Punches	SIN-170
Frontal Sinus Forceps, Curettes, Rasps, Ostium Seeker	SIN-120	Nasal Forceps	SIN-175 SIN-180
Moriyama Instruments for Endonasal Endoscopic/Microscopic Sinus Surgery	SIN-125	Suction Forceps	SIN-185
Concha Scissors	SIN-130	Pediatric Instruments	SIN-190 SIN-195
Antrum Sidebiting Punches.....	SIN-131	Flexible Tension Arm with Attachment for Endoscope and Sinus Specula	SIN-200
Antrum Punches.....	SIN-135	Draf Instruments for Paranasal Sinus Surgery.....	SIN-205 SIN-210
Circular Punches	SIN-140	Surgical Instruments for Paranasal Sinuses.....	SIN-215
Fokkens Biopsy Forceps A Biopsy Method to Obtain High Quality Specimens of Nasal Mucosa	SIN-145	RICHARDS INSTRUMENTS	
Wigand Instruments	SIN-150	Curettes, Probes, Elevators, Knives.....	SIN-405
Throughcutting Forceps.....	SIN-155	Forceps, Punches, Scissors.....	SIN-410

Frontal Forceps SIN-415

Through Cutting Forceps SIN-420

Suction and Irrigation SIN-425

Forceps, Trocars

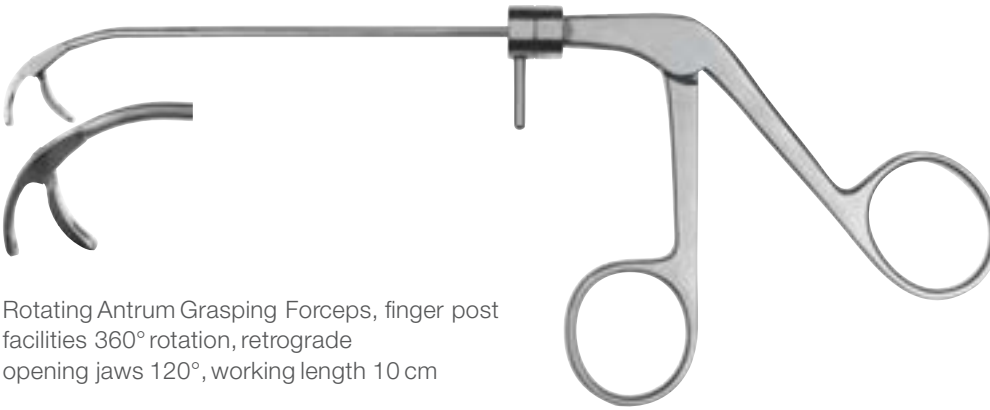


515500



515500 Antrum Grasping Forceps, for endonasal removal of cysts and polyps, retrograde opening jaws 120°, working length 10 cm

515510



515510 Rotating Antrum Grasping Forceps, finger post facilities 360° rotation, retrograde opening jaws 120°, working length 10 cm

518400 Trocar and Cannula for Sinuscopy, outer-Ø 5 mm, cannula length 8.5 cm, billshaped beak, for use with **4 mm** telescopes
518500 same, oblique beak
518503 same, outer-Ø 3.3 mm, cannula length 7.5 cm, oblique beak, for use with **2.7 mm** telescopes
518504 same, outer-Ø 4 mm, for use with **3 mm** telescopes



Cannula, Elevators, Knives, Suction Tubes



- 143001** HARTMANN Nasal Speculum, 13.5 cm, large size, for adults
- 149602** v. EICKEN Antrum Cannula, long curved length 15 cm, LUER-Lock, outer-Ø 2.5 mm
- 149603** same, outer-Ø 3 mm
- 149604** same, outer-Ø 4 mm
- 149612** same, short curved, outer-Ø 2.5 mm
- 149613** same, outer-Ø 3 mm
- 149614** same, outer-Ø 4 mm
- 149702** v. EICKEN Antrum Cannula, malleable , long curved, length 15 cm, LUER-Lock, outer-Ø 2.5 mm
- 149703** same, outer-Ø 3 mm
- 149704** same, outer-Ø 4 mm
- 301100** Septum Needle, angular, 0.8 mm, LUER-Lock
- 315000** FREER Elevator, double-ended, 20 cm
- 405800** GORNEY Suction Elevator, with stylet, 3 mm tip, 19 cm



518001–
518003

518101–
518105

518001 Antrum Curette, 19 cm, oval, size 1
518002 same, size 2
518003 same, size 3

518101 Antrum Curette, 19 cm, round, small size
518102 same, oblong, small size
518103 same, oblong, large size

518104 Sinus Frontal Curette, 19 cm, oblong,
small size, 55° curved
518105 same, 90° curved

210008 FRAZIER Suction Tube, stainless, 8 Fr
210010 same, 10 Fr.
210012 same, 12 Fr
210015 same, 15 Fr
210018 same, ball ended, 8 Fr
210020 same, ball ended, 10 Fr
210022 same, ball ended, 12 Fr
210025 same, ball ended, 15 Fr



518203–
518204

518301–
518304

518203 Antrum Curette, 19 cm, small size,
forward cutting
518204 same, small size, backward cutting

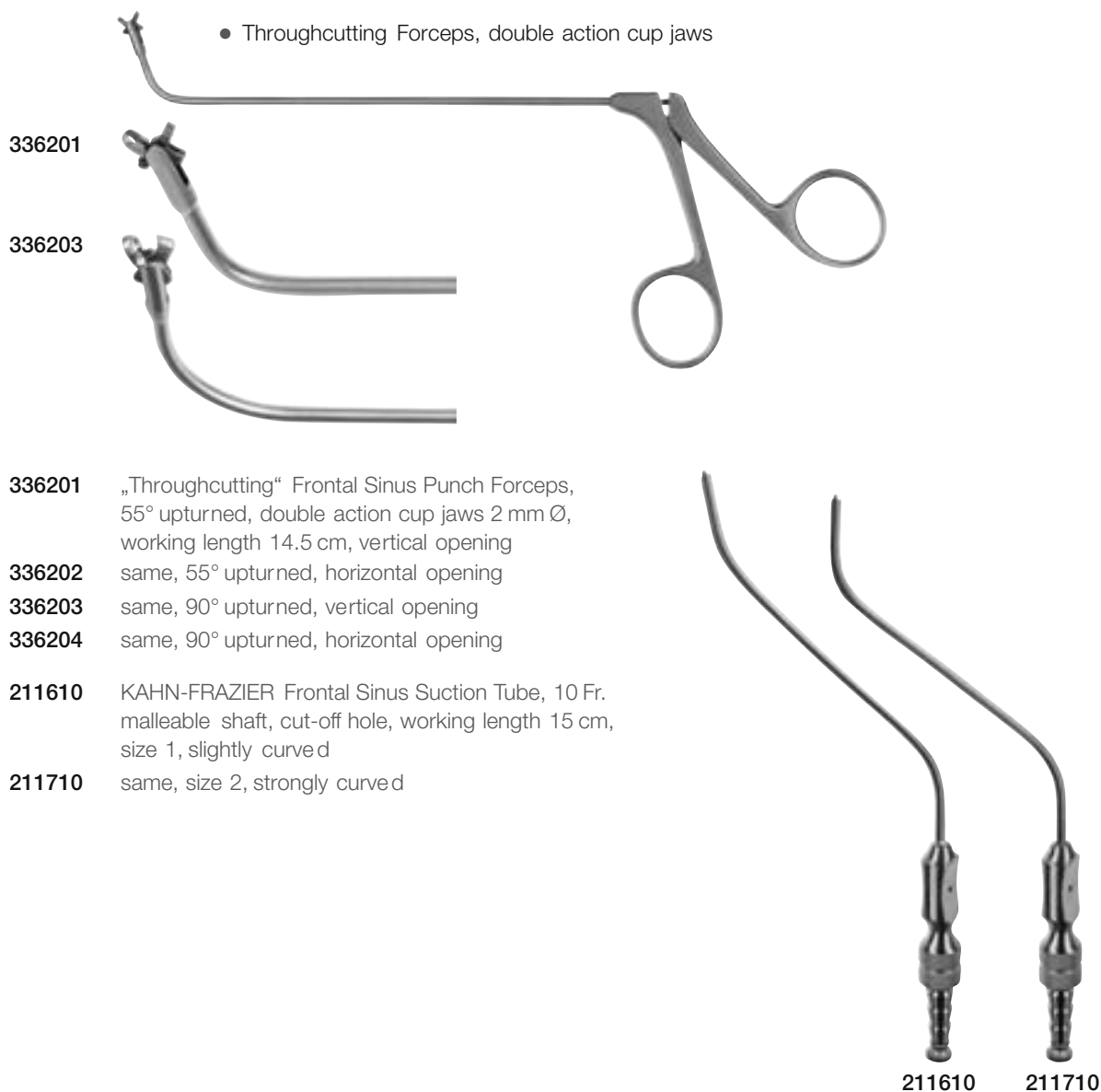
518301 Sickle Knife, 19 cm, pointed
518302 same, tip rounded, blunt,
double cutting
518303 same, sharp tip, curved to left
518304 same, sharp tip, curved to right

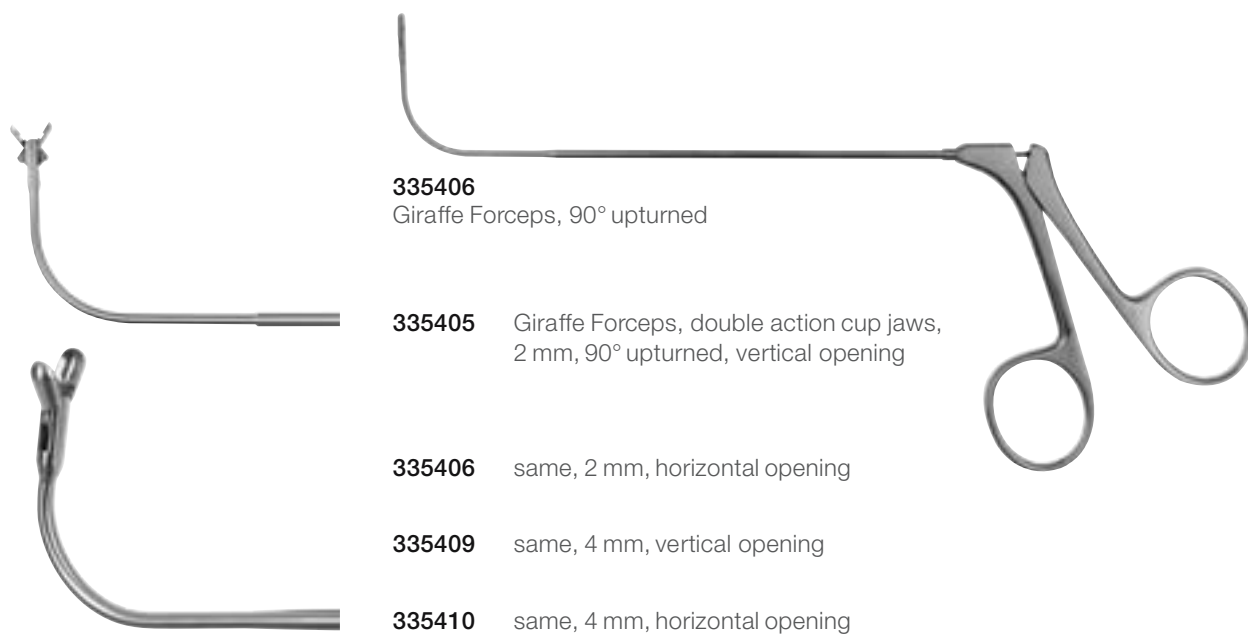
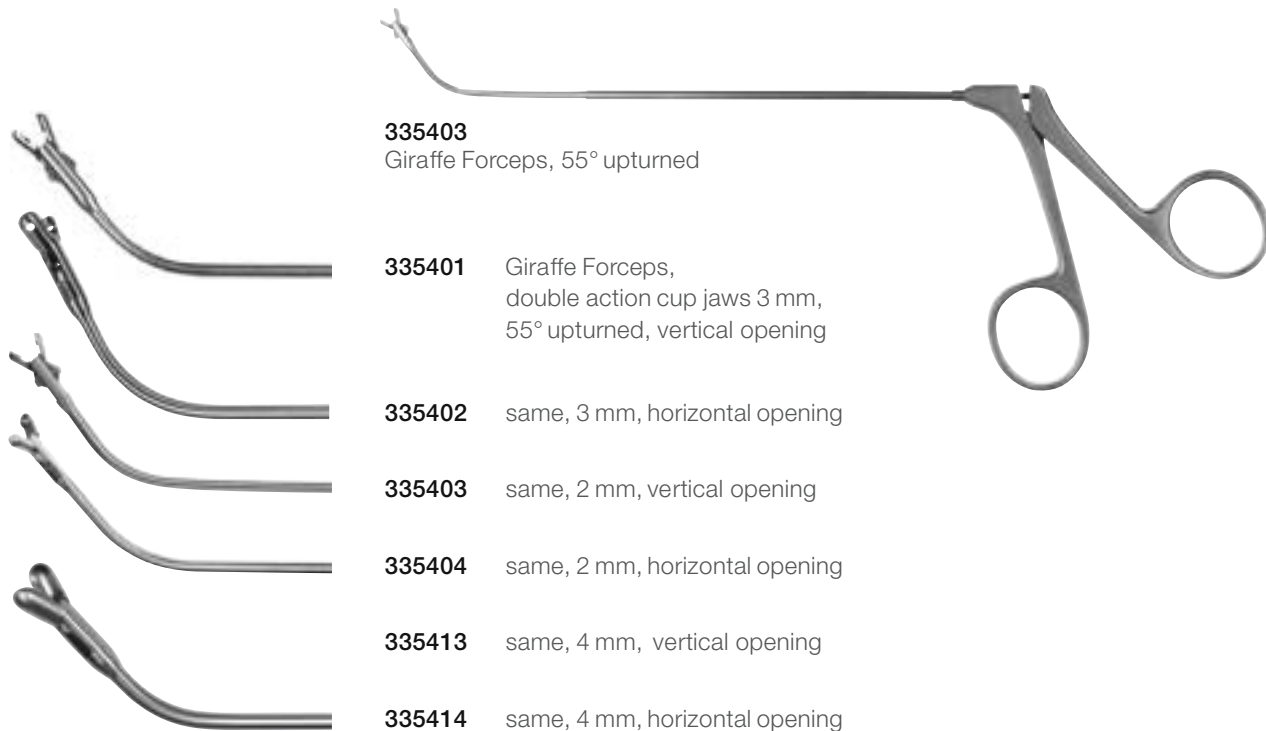


210008–
210015

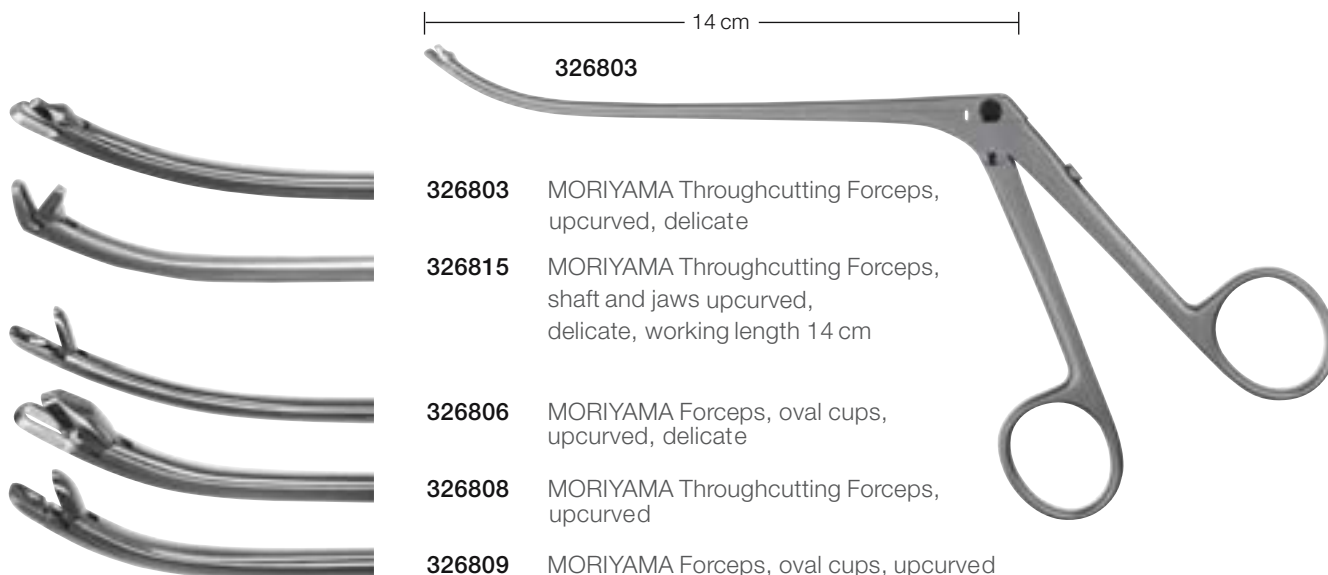
210018–
210025

Forceps, Suction Tubes





Frontal Sinus Forceps, Curettes, Rasps, Ostium Seeker



- 518104** Sinus Frontal Curette, 19 cm, oblong, small size, 55° curved
- 518105** same, 90° curved
- 518110** WIGAND Frontal Sinus Rasp, strong pattern
- 518111** same, slender pattern
- 518725** Frontal Sinus Ostium Seeker, double-ended, curved

**335110–
335302**



335110 Biopsy Forceps, oval double action cupped jaws 2.6 mm Ø, 110° backwards cutting, horizontal opening



335111 same, 110° backwards cutting, vertical opening



335170 same, 70° upturned, horizontal opening



335171 same, 70° upturned, vertical opening



335114 Biopsy Forceps, oval double action cupped jaws 4 mm Ø, 110° backwards cutting, horizontal opening



335124 same, 110° backwards cutting, vertical opening



335300 BINNER Polyp Grasping Forceps, jaws 3 x 1.5 mm, pear-shaped, 80° upturned, horizontal opening

335304 same, 45° upturned

335301 same, 80° upturned, sheath curved left

335302 same, 80° upturned, sheath curved right



Moriyama Instruments

for Endonasal Endoscopic/Microscopic
Sinus Surgery

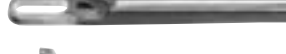


This generation of instruments is especially useful for endonasal microsurgical operations, like removal of polypoid diseased mucous membrane, membrane rests, lamellae of bone/septa and nasal polyps.

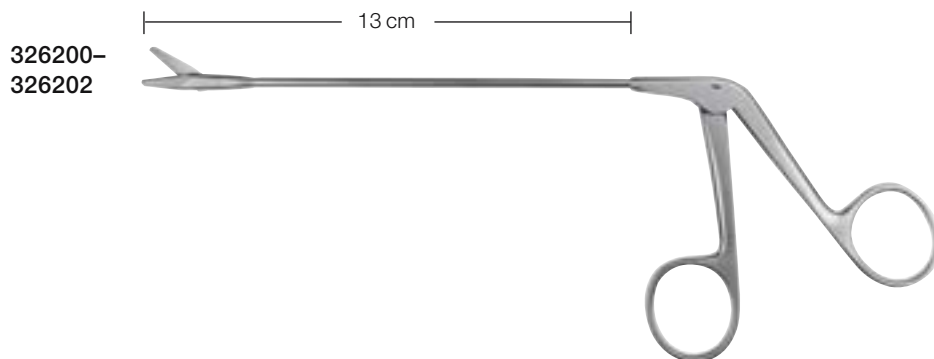
- ✓ Due to the special curve of the shaft, the opening of the ostium of the maxillary sinus and the manipulation within the maxillary sinus are made easier.
- ✓ Instruments also facilitate the surgery of the agger-nasi, the frontal recess and the ostium of the frontal sinus.
- ✓ Exact manipulation at anatomically critical places can be precisely done. The delicate instruments are especially suitable for pre- and postoperative ambulatory surgery.
- ✓ Extremely slender shapes, long sheaths and delicate jaws facilitate the approach.



by Prof. Hiroshi Moriyama M.D.,
Jikei University, Tokyo

	326800	MORIYAMA Instrument Set, Set of 15 Conchotomes sizes 1-15
	326801	MORIYAMA Throughcutting Forceps, size 1, straight, delicate, working length 14 cm
	326802	MORIYAMA Throughcutting Forceps, size 2, upcutting, delicate, working length 14 cm
	326803	MORIYAMA Throughcutting Forceps, size 3, shaft upcurved, delicate, working length 14 cm
	326815	MORIYAMA Throughcutting Forceps, size 15, shaft and jaws upcurved, delicate, working length 14 cm
	326804	MORIYAMA Spoon Forceps, size 4, oval cups, straight, delicate, working length 14 cm
	326805	MORIYAMA Spoon Forceps, size 5, oval cups, upwards, delicate, working length 14 cm
	326806	MORIYAMA Spoon Forceps, size 6, oval cups, shaft upcurved, delicate, working length 14 cm
	326807	MORIYAMA Cutting Forceps, backward cutting, size 7, sheath upcurved, working length 14 cm
	326808	MORIYAMA Throughcutting Forceps, size 8, sheath upcurved, working length 14 cm
	326809	MORIYAMA Spoon Forceps, oval cups, size 9, shaft upcurved, working length 14 cm
	326810	MORIYAMA Throughcutting Forceps, size 10, straight, small size, working length 11.5 cm
	326811	same, size 11, large size, working length 11.5 cm
	326812	MORIYAMA Throughcutting Forceps, size 12, upwards, small size, working length 11.5 cm
	326813	same, size 13, medium size, length 11.5 cm
	326814	same, size 14, large size, working length 11.5 cm
	326820	MORIYAMA Fontanelle Knife, curved, length 20 cm

Concha Scissors



326200 Nasal Scissors, serrated blades,
working length 13 cm, straight



326201 same, curved left



326202 same, curved right



326000 HEYMANN Nasal Scissors, smooth blades,
straight, working length 9.5 cm

326100 same, serrated blades, working length 9.5 cm

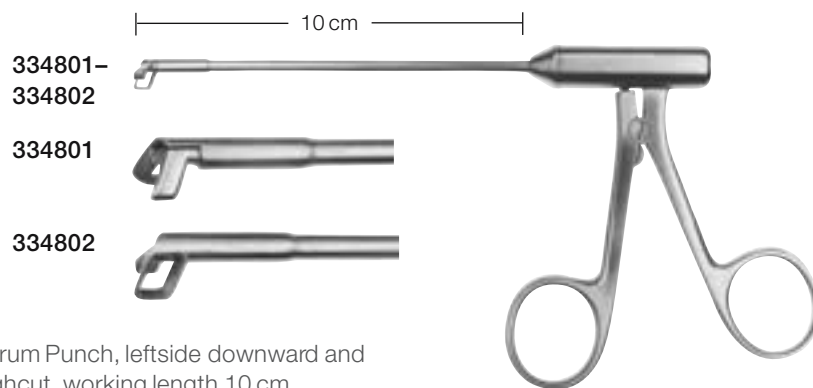
326101 same, smooth blades, curved left,
working length 9.5 cm

326102 same, curved right

326009 same, small size, straight, working length 9 cm

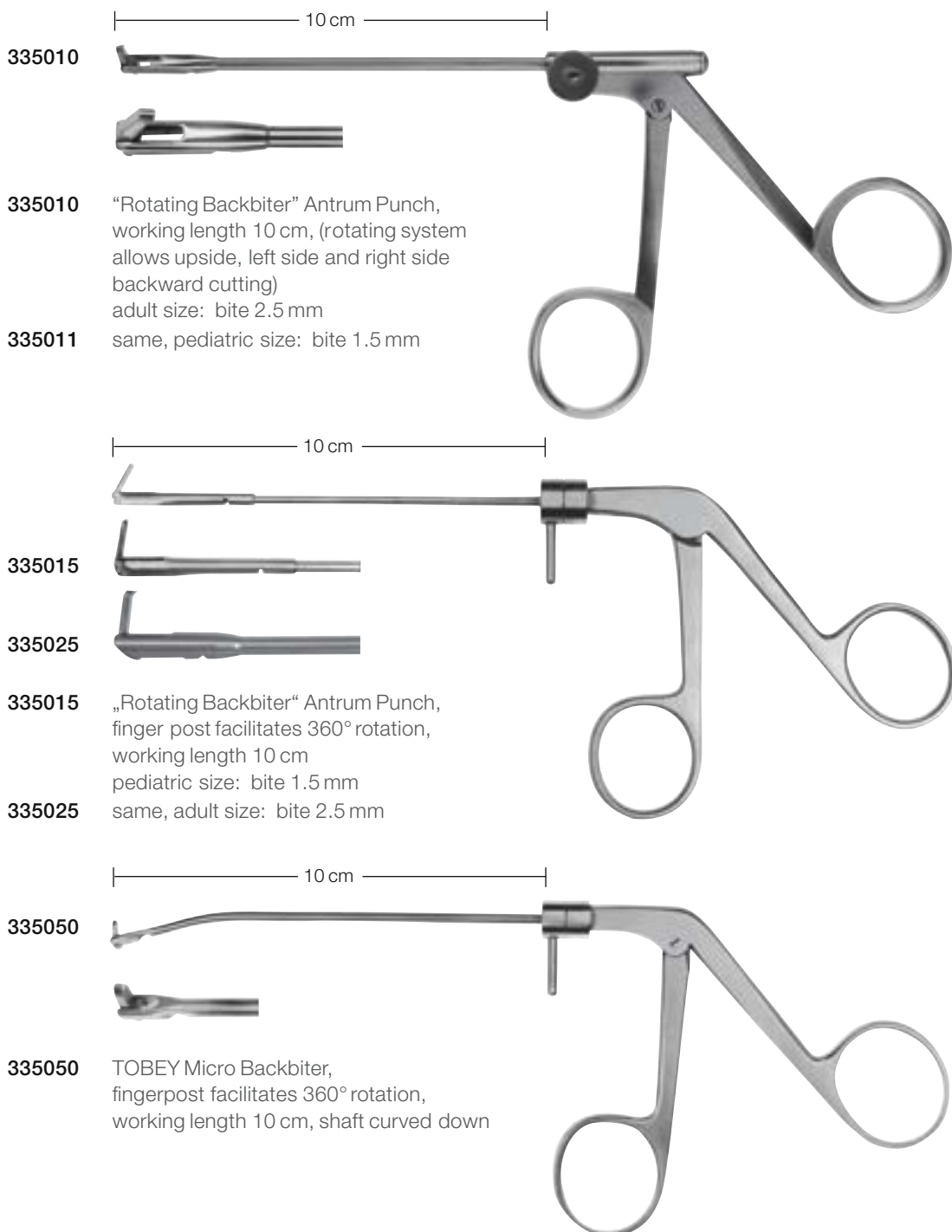
326011 same, large size, straight, working length 11 cm

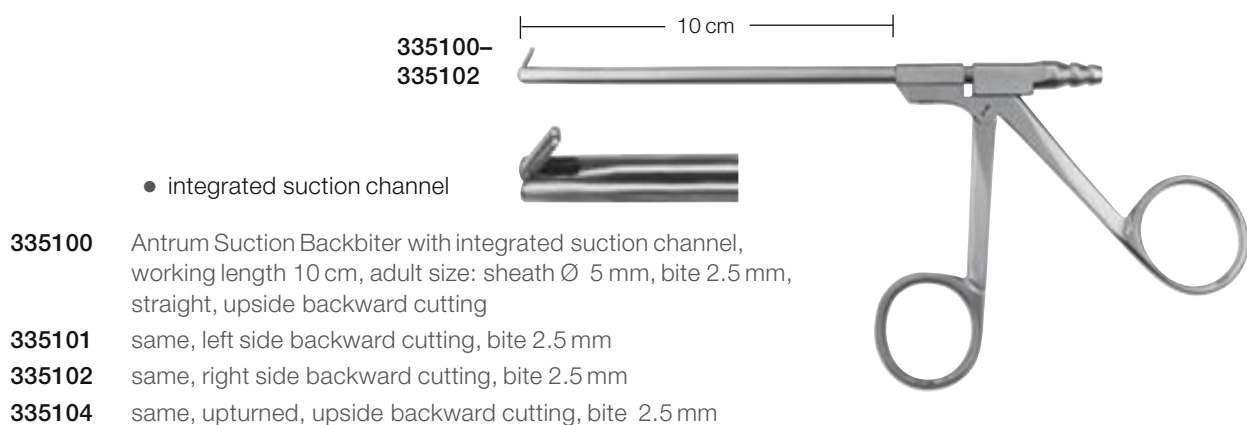
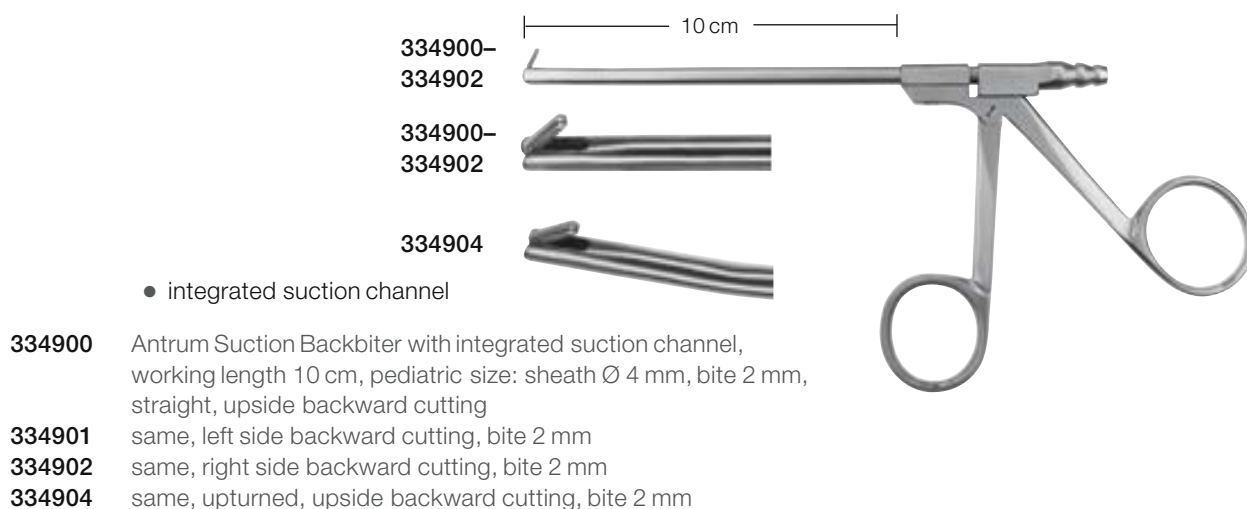
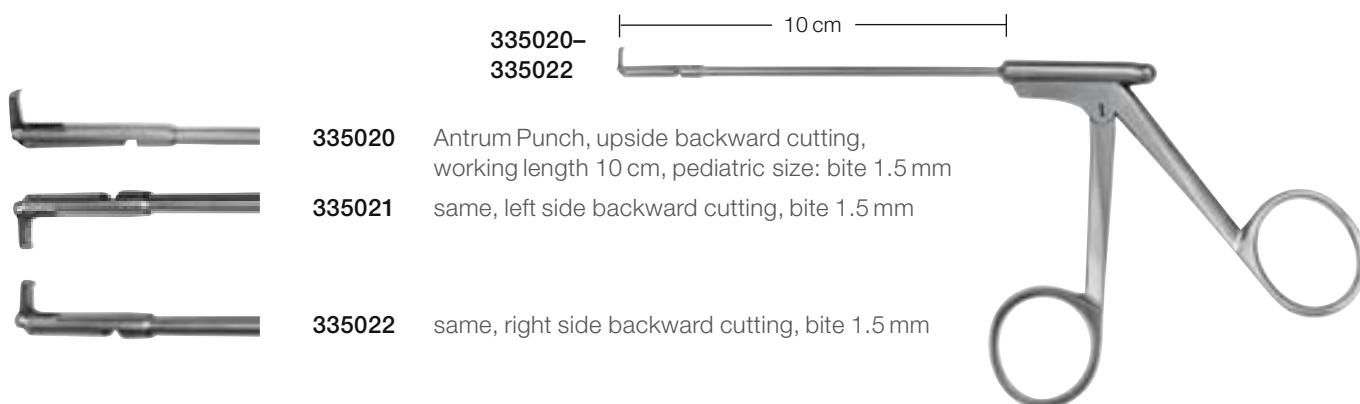
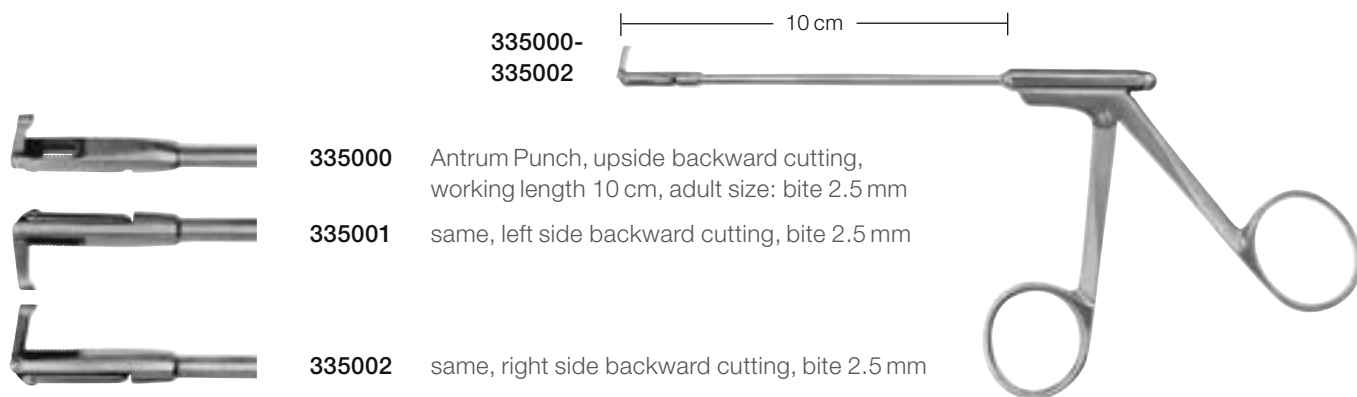
Antrum Sidebiting Punches



- 334801** Sidebiting Antrum Punch, leftside downward and forward throughput, working length 10 cm
- 334802** same, rightside downward and forward throughput

Antrum Punches





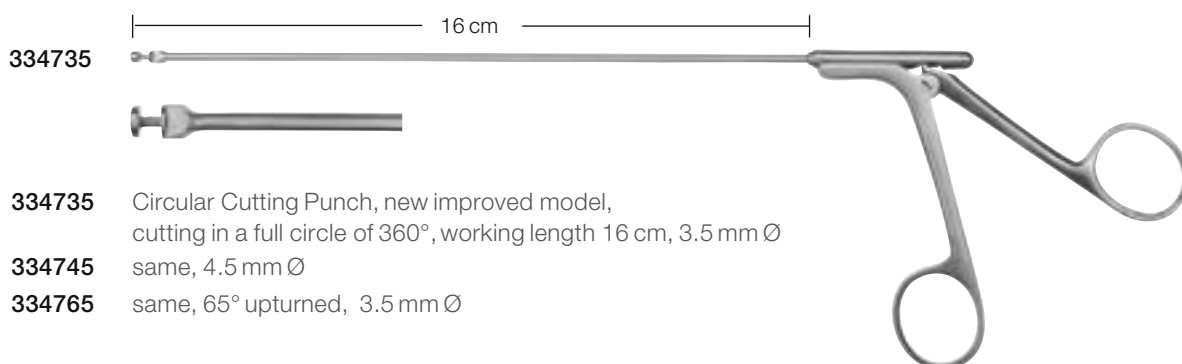
Multipurpose use

- ✓ Useful to enlarge openings in the sphenoid frontal wall.
- ✓ Pieces of the nasal concha, thin bone segments and bony ethmoid septa can be cut.
- ✓ Useful for treatment of choanal atresia

Advantages

- ✓ Circular cutting punch mechanism allows cutting in a full circle of 360° without rotating the instrument.
- ✓ By punching exclusively in the sagittal axis, traumata of cranium, carotis and optic nerve osseous canal are virtually impossible.
- ✓ The rigid inside cutting distal jaws prevent the removal of tissue or mucosa while cutting.

• Circular Cutting Punch



- Circular Punches, integrated suction channel

334835



334835 Circular Cutting Punch with integrated suction channel, allows cutting in a full circle of 360° with simultaneous suction, working length 16 cm, 3.5 mm Ø

334845 same, 4.5 mm Ø

18 cm

334935–

334945



334965–

334975

334935 Circular Cutting Punch, cutting in a full circle of 360°, working length 18 cm, 3.5 mm Ø

334945 same, 4.5 mm Ø

334965 same, 65° upturned, working length 17 cm, 3.5 mm Ø

334975 same, 4.5 mm Ø

Fokkens Biopsy Forceps

A Biopsy Method to Obtain High Quality
Specimens of Nasal Mucosa

For a study on immunological changes in the nasal mucosa of patients with an isolated grasspollen allergy, we needed a satisfactory method for nasal biopsy that would provide biopsy specimens of adequate size (ca. 3 mm in diameter), sufficient depth of the lamina propria, and with undamaged epithelium. Because the biopsies had to be repeated several times in each patient, the method had to be quick, easy to perform, and cause the patient as little stress as possible. A review of the literature indicated either a high percentage of damaged specimens, especially with disturbance of the epithelium, or a high incidence of dropping out of patients when the biopsy was performed more than once.

In collaboration with Explorent a forceps fulfilling our criteria was designed. This instrument makes it possible to take a specimen without visibly damaging the epithelium. The cutting mechanism of the instrument is particularly important. The design, providing a kind of guillotine effect, gives specimens with smooth edges. The knife-sharp edge of the cutting cup meets the sharp edge of the conical receptacle squarely, without putting tangential pressure on the specimen. The conical shape of the receptacle is intended to reduce friction on the sample to a minimum. The circular opening in the bottom of the receptacle permits passage of the specimen without squeezing of the tissue. The angle formed by the open forceps is so large that even a thick hypertrophic turbinate can be biopsied without difficulty.

Biopsy specimens were routinely taken from the lower edge of the inferior turbinate, about 2 cm posterior to the anterior edge. Local anaesthesia was obtained by placing a cotton-wool carrier holding 100 mg cocaine and 3 drops of adrenalin (1 : 1000) under the inferior turbinate without touching the site chosen for the biopsy. The specimens were frozen immediately after being embedded in Tissue-Tek II O.C.T. compound in a gelatin capsule, in which they were given a standardized orientation.

After excision of the specimen, a small piece of gauze with vaseline was placed in the nose. The patient was expected to remove this tampon between 2 and 12 the first 24 hours after the biopsy. To date, we have performed 135 biopsies in 63 patients with this forceps. Twenty-seven of these patients had more than one biopsy and some of them as many as five.

As a rule, the quality of the specimens was excellent. The samples, which had been taken sufficiently deep enough, permit evaluation of the epithelium as well as all of the layers of the lamina propria, showed no signs of compression. Damage to the mucosal epithelium only occurred in eight of the 135 biopsies. The lamina propria could always be judged reliably. The patients underwent the biopsy procedure without problems. One patient had a significant epistaxis. Of the 29 patients in whom a second biopsy was needed, only two refused.

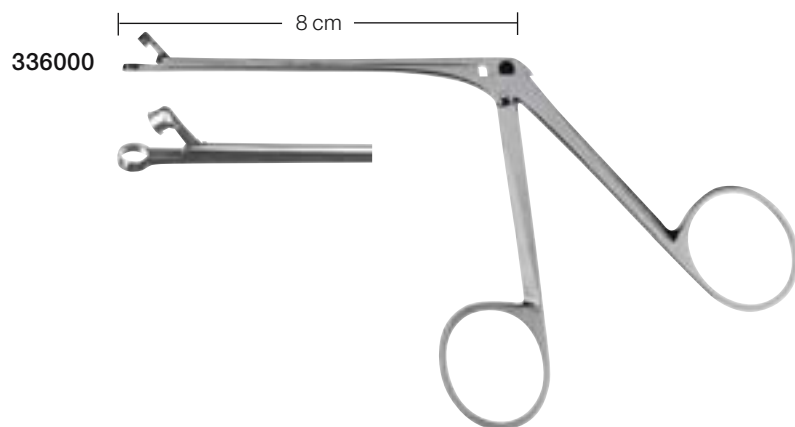
Our experience has led us to conclude that this forceps enables us to perform biopsies of nasal mucosa that provide specimens of high quality and cause minimal stress for the patient. This forceps is not only an invaluable instrument for scientific research on nasal mucosa but will certainly prove useful for the biopsy of pathological tissue in the nose and in other mucosa, especially at sites where access is difficult. Use of this forceps for mucosal biopsies will enable the pathologist to make more accurate histologic diagnoses, and the all too often encountered comment "squeezed rags of tissue; definite diagnosis not possible" will no longer appear on his reports.

Prof. W. J. Fokkens, E. Rijntjes, Dept. of O.R.L., Leyenburg Hospital, The Hague, The Netherlands

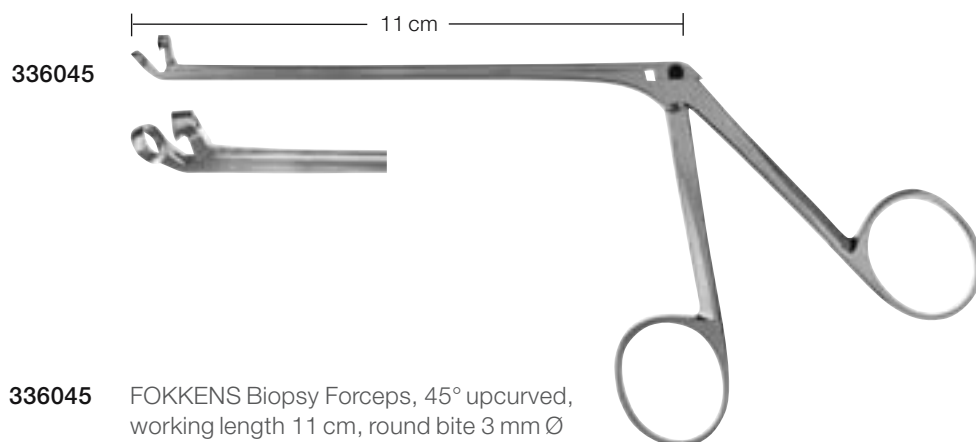
Th. M. Vroom, Dept. of Pathology, Slotervaart Hospital, Amsterdam, The Netherlands

V. Gerritsma, Dept. of O.R.L., University Hospital Leiden, The Netherlands





336000 FOKKENS Biopsy Forceps, straight,
working length 8 cm, round bite 3 mm Ø



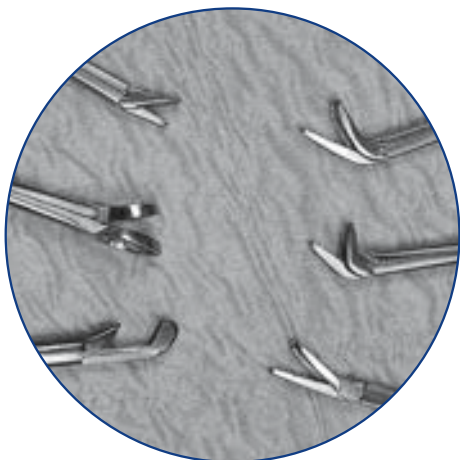
336045 FOKKENS Biopsy Forceps, 45° upcurved,
working length 11 cm, round bite 3 mm Ø

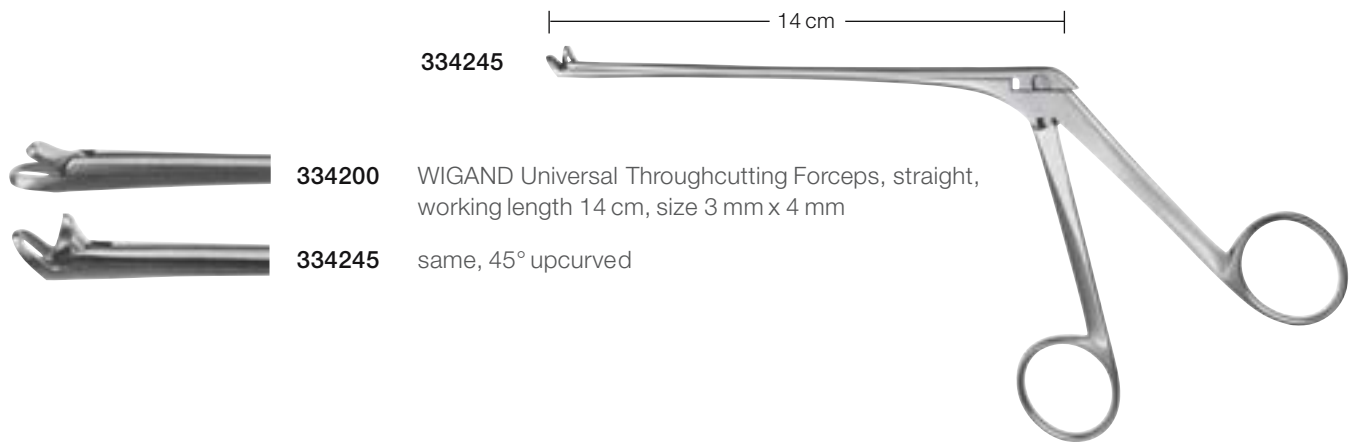
Endoscopic Sinus Surgery (E.S.S) aims at a definite cure of chronic sinusitis by the restoration of ventilation and drainage within the paranasal sinuses. Visualization of this surgical field by endoscopes or the microscope, and the utilization of specially designed instruments are preconditions. Preservation of the diseased mucosa instead of its radical removal has become a second basic principle. The indications of E.S.S have, meanwhile, been extended to the management of malformations, tumors, and injury of the nose and the anterior skull base. This kind of microsurgery requires advanced instrumentation: Optic support of an adequate exposure such as microscope or wideangled endoscopes 0° and 30° for the direct view, as well as a wide-angled view endoscope (70°, 110°) for manipulations "around the corner".

Precise, sharp bone resections with preservation of the adjacent mucosa are most important. For that goal I prefer my personal set of hand instruments, containing besides classical forceps or punches a variety of specially developed tools: Sharp, strong curved cutting punches and forceps. They serve to remove or fenestrate bone partitions or to excise cysts and polyps. Also a flexible monopolar high-frequency electrode has proven valuable for the latter purpose.

The jaws of the sharp cutting forceps were modified in the way, that a rigid lower-jaw is used as a perforator while the mobile upper-jaw is the cutting part (334300–334445). For the important resection of the ground lamella of the middle turbinate a perforator and a backbiter punch have been designed. Especially for the palpation and enlargement of a transition into the frontal sinus infundibulum sharp curettes, adapted from the tools of ear surgery and particular aids like rasps and diamond-drills are utilized. A complete set of instruments for E.S.S should also include particular scissors and a conchotome for the flanking septal and turbinal surgery as well as a bipolar coagulation forceps.

Prof. Malte Erik Wigand, M.D.

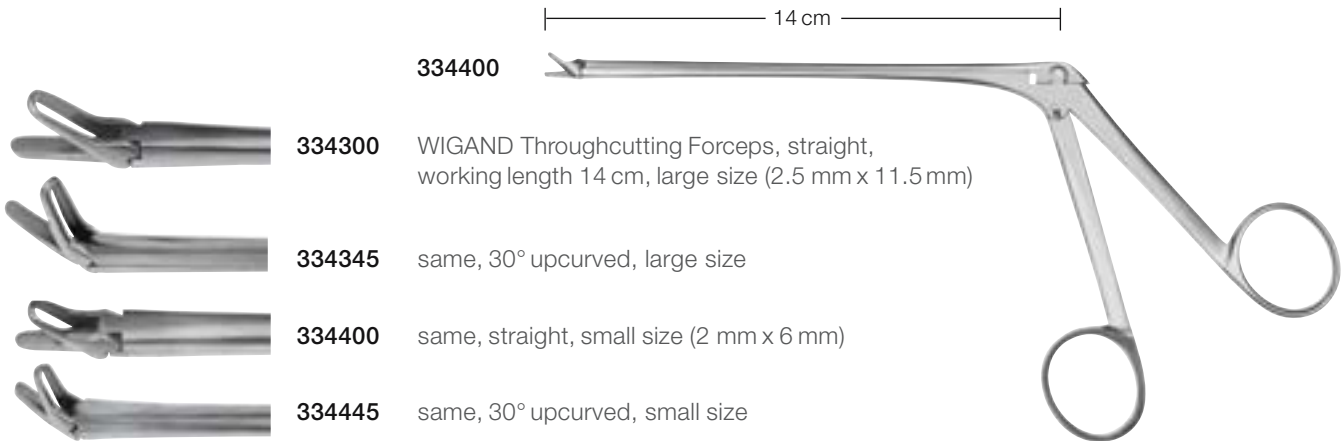




334245

334200 WIGAND Universal Throughcutting Forceps, straight, working length 14 cm, size 3 mm x 4 mm

334245 same, 45° upcurved



334400

334300 WIGAND Throughcutting Forceps, straight, working length 14 cm, large size (2.5 mm x 11.5 mm)

334345 same, 30° upcurved, large size

334400 same, straight, small size (2 mm x 6 mm)

334445 same, 30° upcurved, small size

512403



512403 Bone Punch, through-cutting, 3 mm wide, with deposit to pick up and collect bone material, complete with stylet, working length 15 cm

512410 Stylet, for removal of the bone material from the deposit of 512403

518110
518111



518110 WIGAND Frontal Sinus Rasp, strong pattern
518111 same, slender pattern

Throughcutting
Forceps

✓ **Super Punch:**
The serrated surface of the upper jaw prevents soft tissue or mucosa from slipping away.

336400–
336402

13 cm

336400

"Super Punch", throughcutting, straight, size 0,
working length 13 cm, oval bite 2 mm

336401

same, size 1, oval bite 2.5 mm

336402

same, size 2, oval bite 3 mm

336500–
336502

13 cm

336500

"Super Punch", throughcutting, upcurved, size 0,
working length 13 cm, oval bite 2 mm

336501

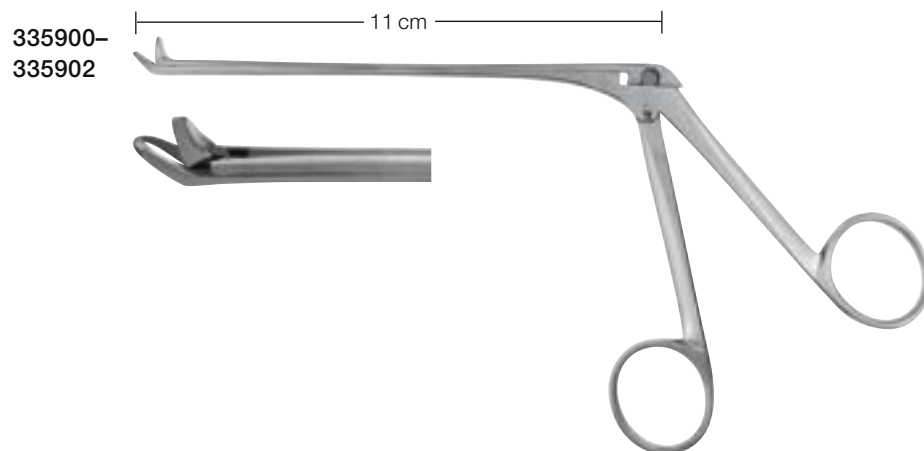
same, size 1, oval bite 2.5 mm

336502

same, size 2, oval bite 3 mm



- 335800** BLAKESLEY "Throughcut" Forceps, straight,
working length 11 cm, size 0 = 3 mm wide, bite 2 mm
335801 same, size 1 = 3.5 mm wide, bite 2.5 mm
335802 same, size 2 = 4 mm wide, bite 3 mm

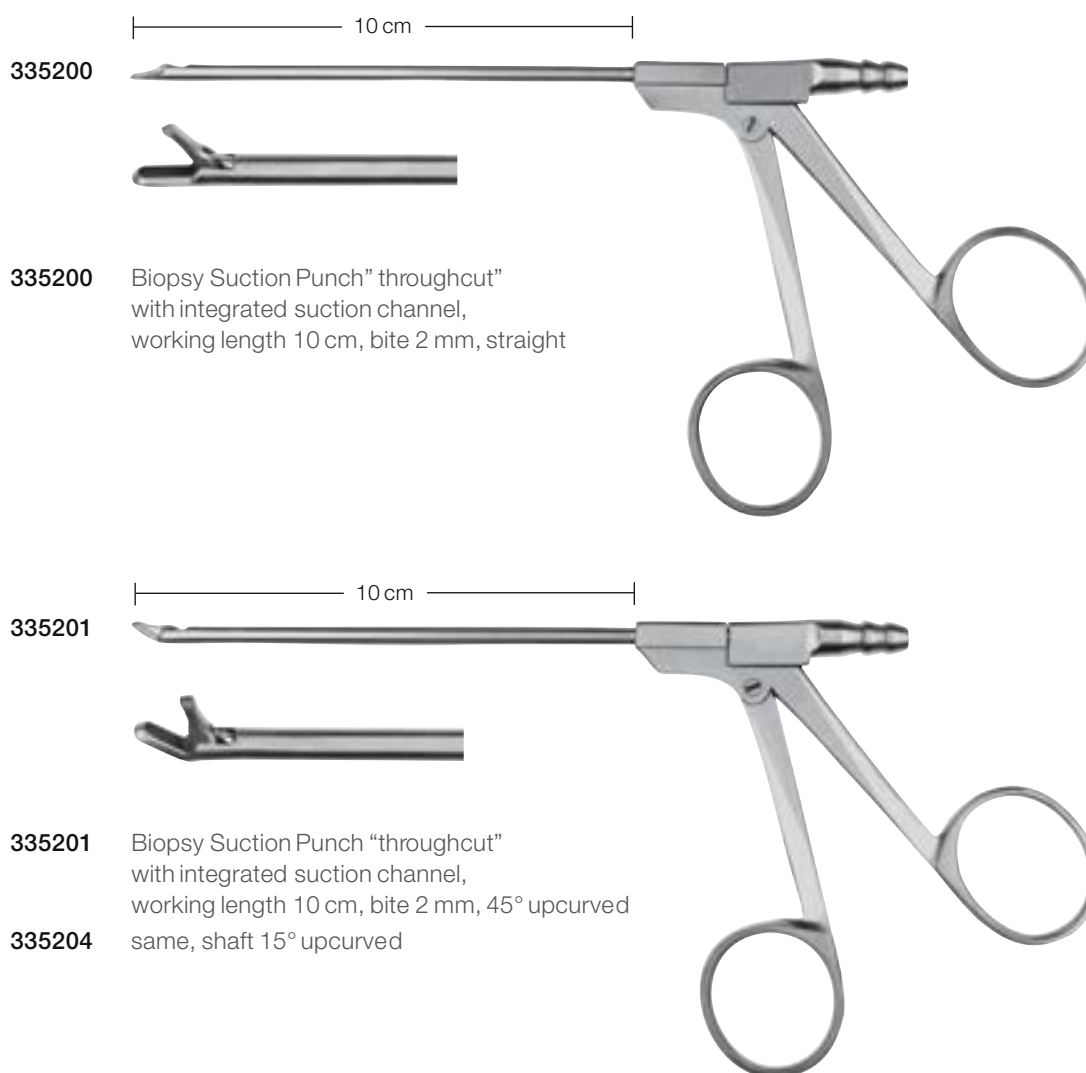


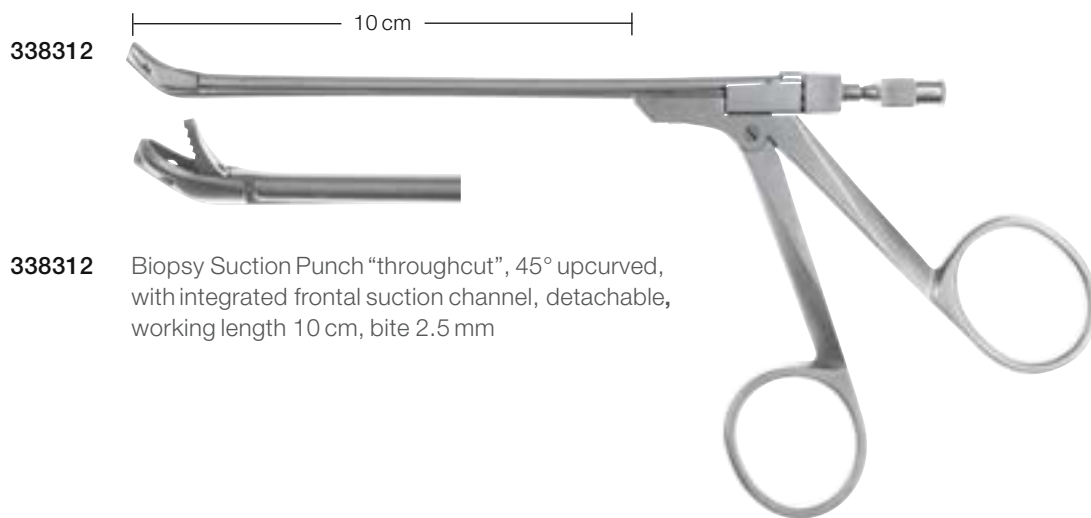
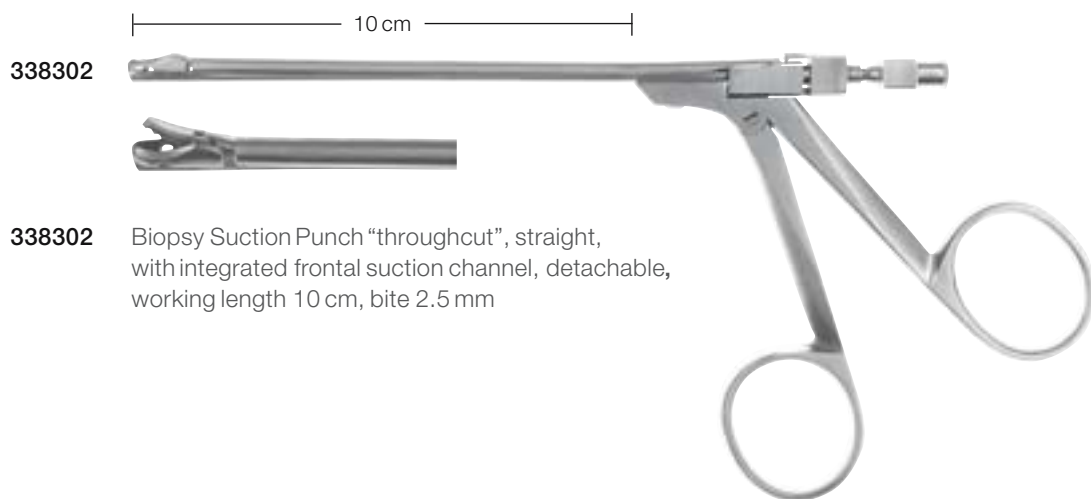
- 335900** BLAKESLEY "Throughcut" Forceps, 45° upcurved
working length 11 cm, size 0 = 3 mm wide, bite 2 mm
335901 same, size 1 = 3.5 mm wide, bite 2.5 mm
335902 same, size 2 = 4 mm wide, bite 3 mm

Suction Punches

✓ With integrated suction channel (335200/-01/-04)

✓ Detachable for ease of reprocessing (338302/-12)





- ✓ Frontal Sinus Punch Forceps (512603):
Extremely resistant despite delicate jaws and upturned shape. Jaws can be locked in closed position for easier and less traumatic introduction.
- ✓ Antrum Punches (512402/-03):
With deposit to pick up and collect bone material.
Enables continuous work.



512603 Frontal Sinus Punch Forceps, sheath 70° upturned, bite 3 mm, 40° upbiting forward, working length 17.5 cm

512402



512403



512402

Antrum Punch, throughcutting,
working length 18 cm, bite 2 mm

512403

same, working length 15 cm, bite 3 mm

512410

Stylet, for removal of the bone material
from the deposit of 512402 and 512403



512800



512800

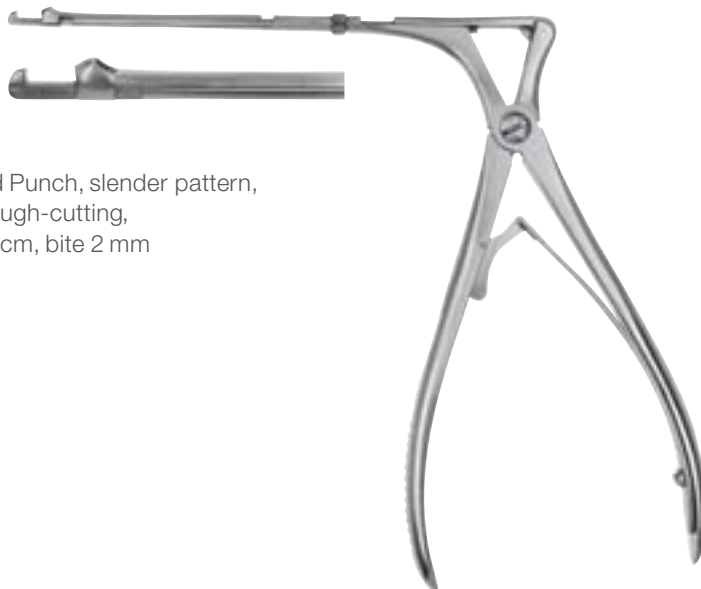
HEERMANN Ethmoid Punch, backward cutting,
opening width 17 mm, bite 2.5 mm

513100



513100

McKENTY Sphenoid Punch, slender pattern,
reversible 360°, through-cutting,
working length 14.5 cm, bite 2 mm





- 512902** FS-KERRISON Sphenoid Punch, bite 2 mm, 90° upbiting, working length 18 cm, detachable
- 512903** same, bite 3 mm
- 512922** FS-KERRISON Sphenoid Punch, bite 2 mm, 40° upbiting, working length 18 cm, detachable
- 512923** same, bite 3 mm



14 cm

512202
512301

14 cm

512001-
512201



512001 HAJEK Sphenoid Punch,
working length 14 cm,
4 mm wide, 90° upbiting



512002 same, 90° downbiting



512201 same, 45° upbiting
backward



512202 HAJEK-KOFLER Sphenoid Punch,
working length 14 cm, 4 mm x 4 mm,
45° downbiting backward



512301 same, 45° upbiting forward



512302 same, 45° upbiting forward,
bite 2 mm x 2 mm

512600

513000

512500

512500 BEYER Antrum Punch, 90° throughbiting upwards,
working length 9 cm, 2 mm wide,
for endonasal fenestration for children

512600 same, backward cutting

513000 HAJEK-KOFLER Sphenoid Punch, reversible 360°,
slender pattern, 17 cm working length

Nasal Forceps

11 cm

327500



327001 TAKAHASHI Nasal Forceps, straight,
working length 11 cm, spoon 3 x 10 mm



327002 TAKAHASHI Nasal Forceps, 30° upturned,
working length 11 cm, spoon 3 x 10 mm



327500 STRUYCKEN Nasal Cutting Forceps,
working length 11 cm

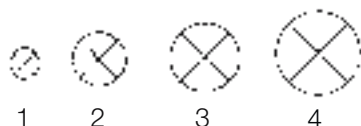


329001 HARTMANN Nasal Cutting Forceps,
working length 11 cm, size 1

329002 same, size 2

329003 same, size 3

329004 same, size 4



1

2

3

4

11 cm

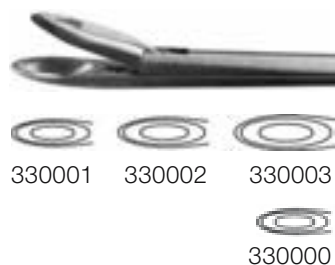
330902



330901 BLAKESLEY Nasal Forceps,
rotatable 360°, 45° upturned,
working length 11 cm, size 1



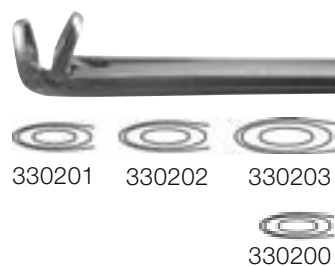
330902 same, size 2



- 330000** BLAKESLEY Nasal Forceps, straight,
working length 11 cm, size 0 = 3 mm
- 330001** same, size 1 = 3.5 mm
- 330002** same, size 2 = 4 mm
- 330003** same, size 3 = 5 mm



- 330100** BLAKESLEY-WILDE Nasal Forceps, 45° upcurved,
working length 11 cm, size 0 = 3 mm
- 330101** same, size 1 = 3.5 mm
- 330102** same, size 2 = 4 mm
- 330103** same, size 3 = 5 mm



- 330200** BLAKESLEY-WILDE Nasal Forceps, 90° upcurved,
working length 11 cm, size 0 = 3 mm
- 330201** same, size 1 = 3.5 mm
- 330202** same, size 2 = 4 mm
- 330203** same, size 3 = 5 mm



- 331501** BLAKESLEY Nasal Forceps,
straight, working length 15 cm, size 1
- 331502** same, size 2
- 331503** same, size 3
- 331601** same, 45° upcurved, size 1
- 331602** same, size 2
- 331701** same, 90° upcurved, size 1
- 331702** same, size 2

Nasal Forceps

(cont.)



330300 STRUEMPEL-VOSS Nasal Forceps, 45° upcurved, extra delicate, working length 11 cm



330400 WIGAND Polyp Grasping Forceps, 60° upcurved, working length 11 cm, spoon 6 x 14 mm, round shaped

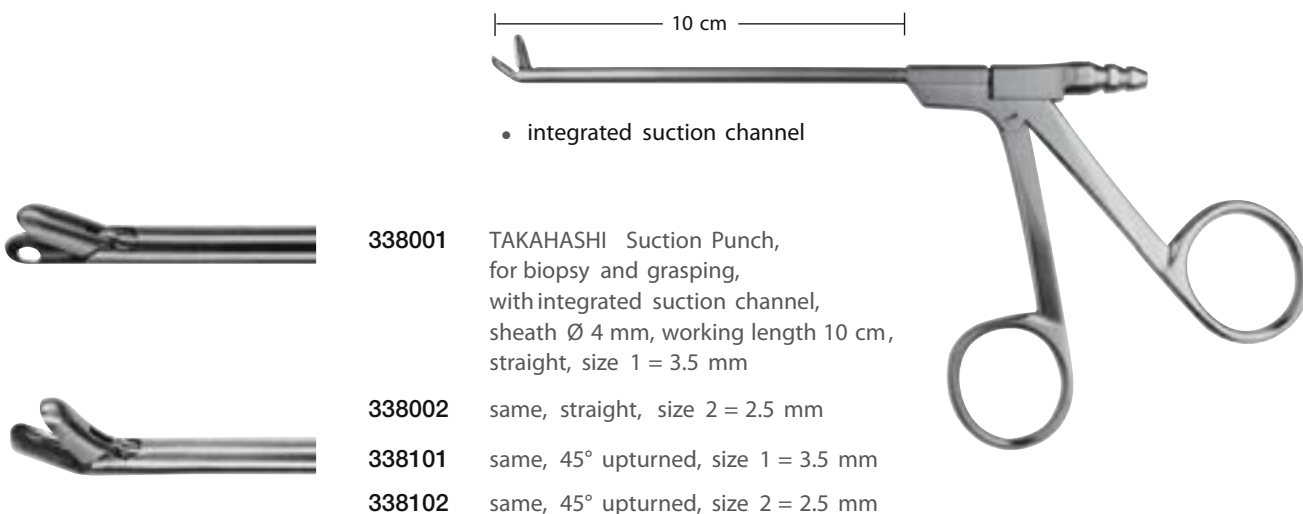
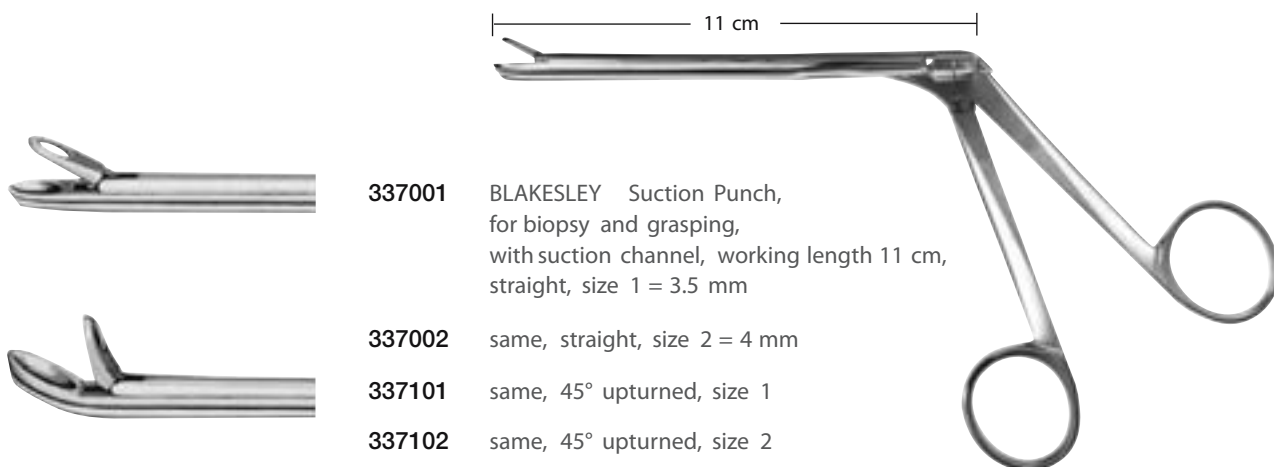


330500 BLAKESLEY Antrum Forceps, Tube Shaft, working length 10 cm, curved left



330600 same, curved right

Suction Forceps



10 cm

- integrated suction channel



336800 BLAKESLEY Suction Forceps, straight,
with integrated suction channel Ø 4 mm,
working length 10 cm, size 0 = 2.5 mm



336801 same, size 1 = 3.5 mm



336802 same, size 2 = 4 mm



10 cm

- integrated suction channel



336900 BLAKESLEY Suction Forceps, 45° upcurved,
with integrated suction channel Ø 4 mm,
working length 10 cm, size 0 = 2.5 mm

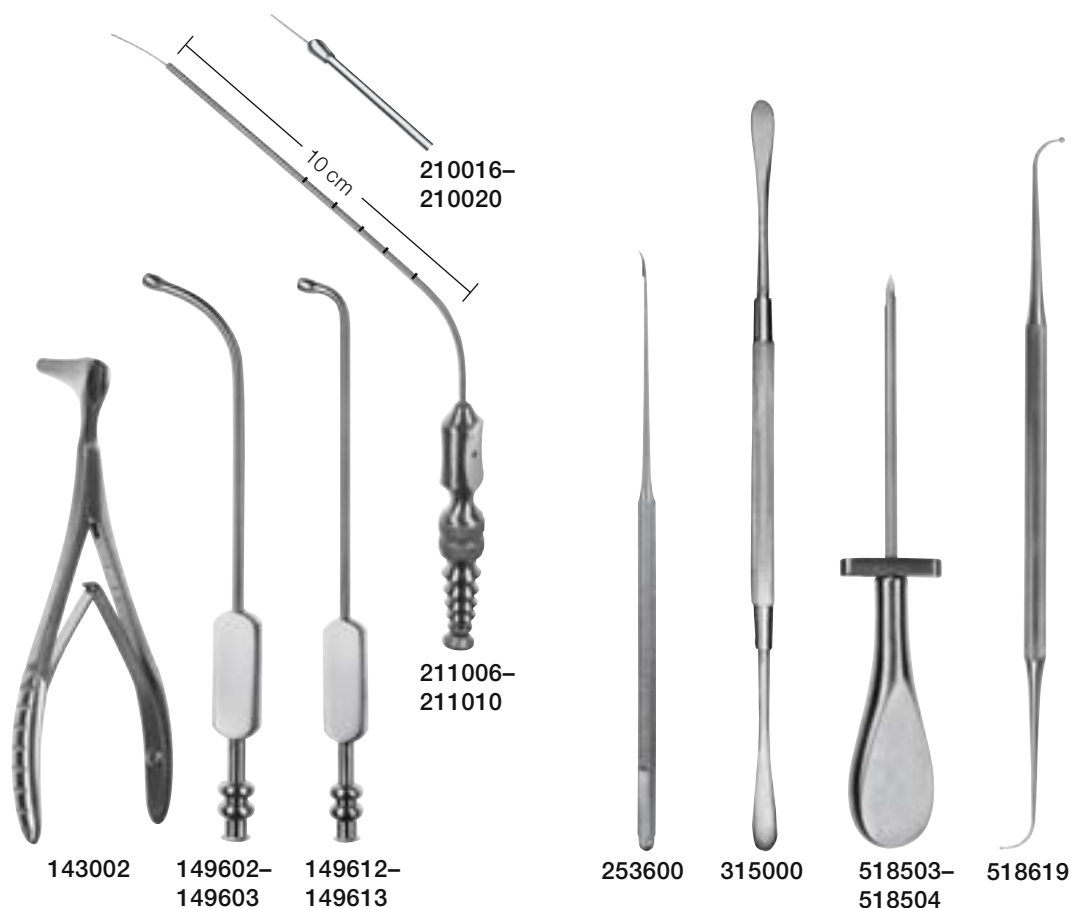


336901 same, size 1 = 3.5 mm



336902 same, size 2 = 4 mm





143002 HARTMANN Nasal Speculum, 13 cm, small size, for children

149602 v. EICKEN Antrum Cannula, LUER-Lock, 15 cm, long curved, O.D. 2.5 mm

149603 same, O.D. 3 mm, long curved

149612 same, O.D. 2.5 mm, short curved

149613 same, O.D. 3 mm, short curved

210016 FRAZIER Suction Tube, ball ended, working length 10 cm, 6 Fr

210018 same, 8 Fr

210020 same, 10 Fr

211006 FRAZIER Suction Tube with calibrations marked at 5 cm – 9 cm, working length 10 cm, 6 Fr

211008 same, 8 Fr

211010 same, 10 Fr

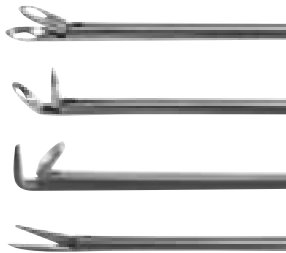
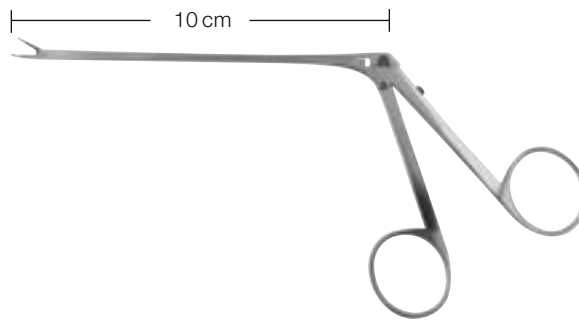
253600 Sickie Knife, pointed, 16 cm

315000 FREER Elevator, double-ended, 20 cm

518503 Trocar and Cannula for Sinuscopy, outer-Ø 3.3 mm, cannula-length 7.5 cm, oblique beak, for use with 2.7 mm telescopes

518504 same, outer-Ø 4 mm, for use with 3 mm telescopes

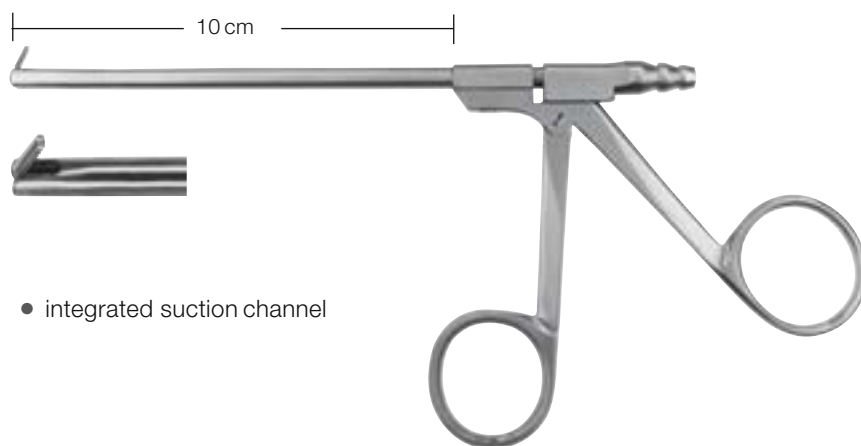
518619 Maxillary Sinus Ostium Seeker, double-ended, length 19 cm, ball sizes: Ø 1.2 mm and 2.0 mm



- 341000** STRUEMPEL Forceps, working length 10 cm, oval cup-shaped jaws, straight
- 341045** same, 45° upcurved
- 341090** same, 90° upcurved
- 342000** BELLUCCI Scissors, working length 10 cm, straight



- 326801** MORIYAMA Throughcutting Forceps, straight, delicate
- 326802** MORIYAMA Throughcutting Forceps, upcutting, delicate
- 326803** MORIYAMA Throughcutting Forceps, upcurved, delicate
- 326815** MORIYAMA Throughcutting Forceps, size 15 shaft and jaws upcurved, delicate, working length 14 cm
- 326804** MORIYAMA Forceps, oval cups, straight, delicate
- 326805** MORIYAMA Forceps, oval cups, upwards, delicate
- 326806** MORIYAMA Forceps, oval cups, upcurved, delicate

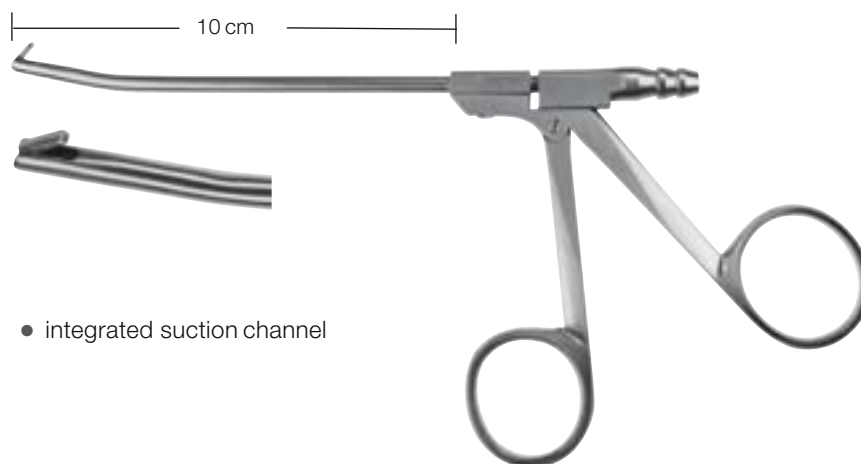


- integrated suction channel

334900 Antrum Suction Punch with integrated suction channel, working length 10 cm, shaft diameter 4 mm, bite 2 mm, straight, upside backward cutting

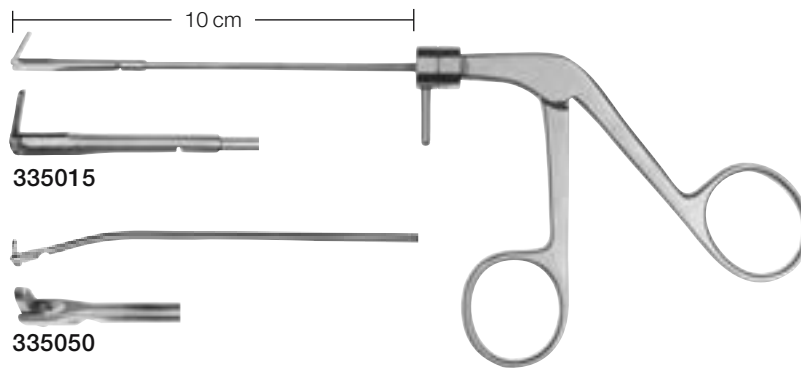
334901 same, left side backward cutting

334902 same, right side backward cutting



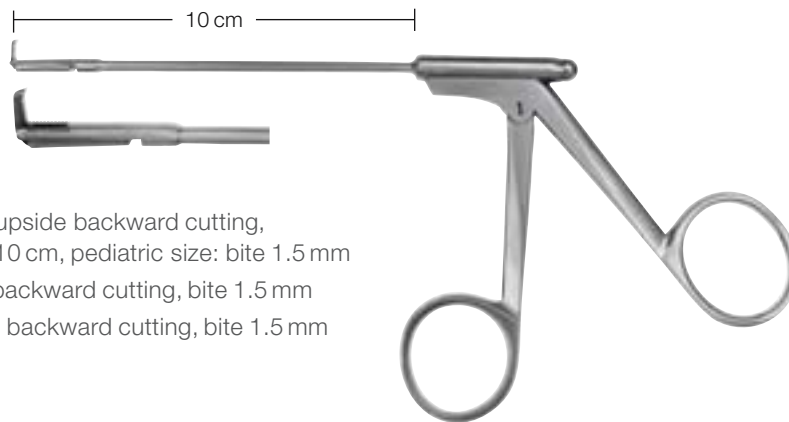
- integrated suction channel

334904 Antrum Suction Punch with integrated suction channel, working length 10 cm, shaft diameter 4 mm, bite 2 mm, upturned, upside backward cutting



335015 „Rotating Backbiter“ Antrum Punch, finger post facilitates 360° rotation, working length 10 cm, pediatric size: bite 1.5 mm

335050 TOBEY Micro Backbiter, fingerpost facilitates 360° rotation, working length 10 cm, shaft curved down

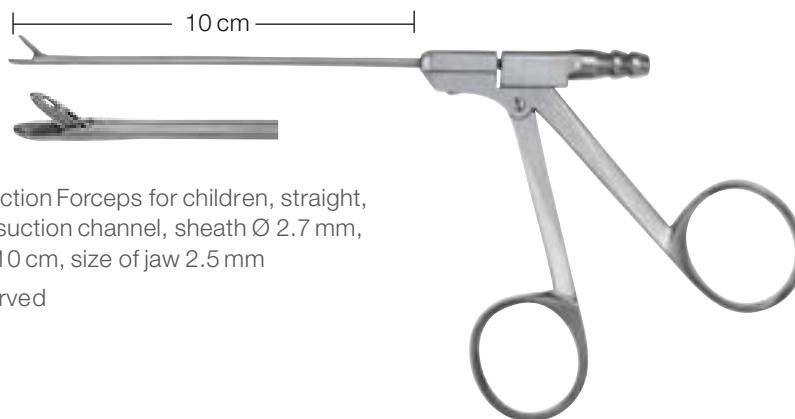


335020 Antrum Punch, upside backward cutting, working length 10 cm, pediatric size: bite 1.5 mm

335021 same, left side backward cutting, bite 1.5 mm

335022 same, right side backward cutting, bite 1.5 mm

- integrated suction channel



336700 BLAKESLEY Suction Forceps for children, straight, with integrated suction channel, sheath Ø 2.7 mm, working length 10 cm, size of jaw 2.5 mm

336745 same, 45° upcurved

Flexible Tension Arm

with Attachment for Endoscope and
Sinus Specula



- 218800** Flexible Tension Arm, complete with holding rod for attachment to operating table
- 218801** Rotation Clamp for Flexible Tension Arm 218800, attachable to operating table
- 218803** Telescope Clamp, fitting to Sinus Telescopes
- 218804** Adapter for Flexible Tension Arm 218800, for use with all Cottle- and Killian Nasal Specula



218804



**497601–
497606**



**497801–
497804**



**497805–
497806**



**498001–
498002**

- 497601** Sinus Speculum with set screw and adaption for Flexible Tension Arm 218800, length 15 cm, length of left blade 55 mm, right blade shortend with mandrels
- 497602** same, right blade 55 mm, left blade shortend with mandrels
- 497603** same, left blade 65 mm, right blade shortend with mandrels
- 497604** same, right blade 65 mm, left blade shortend with mandrels
- 497605** same, left blade 75 mm, right blade shortend with mandrels
- 497606** same, right blade 75 mm, left blade shortend with mandrels
- 497801** Sinus Speculum with set screw and adaption for Flexible Tension Arm 218800, blades without teeth, length of left blade 55 mm, length of right blade 35 mm
- 497802** same, right blade 55 mm, left blade 35 mm
- 497803** same, left blade 75 mm, right blade 35 mm
- 497804** same, right blade 75 mm, left blade 35 mm
- 497805** same, left blade 75 mm, right blade 52 mm
- 497806** same, right blade 75 mm, left blade 52 mm
- 498001** Sinus Speculum model "WUERZBURG" for children, length 13 cm, with set screw and adaption for Flexible Tension Arm 218800, length of left blade 25 mm, length of right blade 18 mm with mandrels
- 498002** same, length of right blade 25 mm, length of left blade 18 mm with mandrels



498002

Draf Instruments

for Paranasal Sinus Surgery

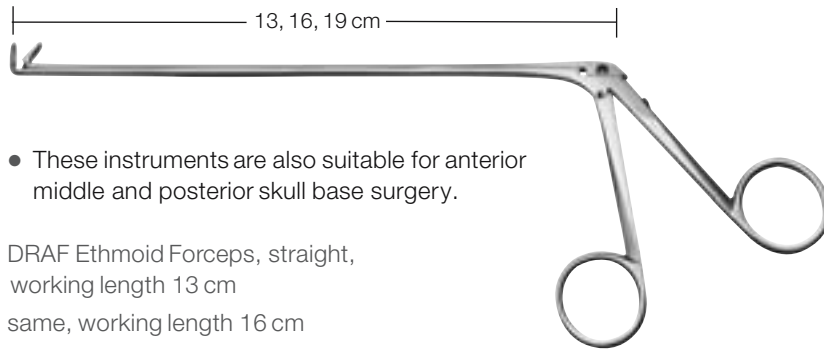
The evolution of endonasal surgery started with headlight and naked eye. Very soon it became obvious, that the endonasal technique at that time was applicable only for extremely skilled surgeons. Therefore, between 1920 and 1970 almost exclusively classic external approaches have been the preferred ones to avoid severe complications. Since 1970 the renaissance of endonasal surgery started. This is because of the modern visual aids as microscope and endoscope. A major contribution comes from anesthesiology, providing us with a more or less bloodless field also in general anesthesia. Another important fact is the better understanding of the pathophysiology of the nose and paranasal sinuses leading to a better judgement about the necessary extent of surgery. Finally the patients desire more endonasal less traumatic surgery rather than the classic external techniques.

In 1980 we started to use not only the endoscope but also the microscope for the endonasal pansinus operation combining the advantages of both instruments for the benefit of the patient. Some parts of the operation are performed easier and faster with the microscope, some others can be performed efficiently only with the endoscope. The special instruments we have designed are used in addition to instruments of some other surgeons and proved to be in our hands very effective. These instruments are not only useful for surgery of inflammatory diseases, but also in trauma, malformation and tumors. Some of the instruments are specially designed for duraplasty during endonasal surgery. For this we like to have both hands free using the microscope. The drill was introduced by us in this type of surgery already in 1979 and is very helpful to avoid complications if the anatomical orientation is uncertain, for frontal sinus surgery and for opening the sphenoid sinus. It is indispensable for removal of bone tumors.

Sophisticated equipment allows to follow successfully the strategy "Surgery should be as small as possible and as extensive as necessary". Mucosa should be preserved whenever possible. Our instruments are used not only for sinus surgery, but also for surgery around the skull base and therefore rather versatile.

Prof. W. Draf, M.D., FRCS Ed





- These instruments are also suitable for anterior middle and posterior skull base surgery.



338413 DRAF Ethmoid Forceps, straight, working length 13 cm

338416 same, working length 16 cm

338419 same, working length 19 cm



338513 DRAF Ethmoid Forceps, 60° upcurved, working length 13 cm

338516 same, working length 16 cm

338519 same, working length 19 cm



338613 DRAF Ethmoid Forceps, 90° upcurved, working length 13 cm

338616 same, working length 16 cm

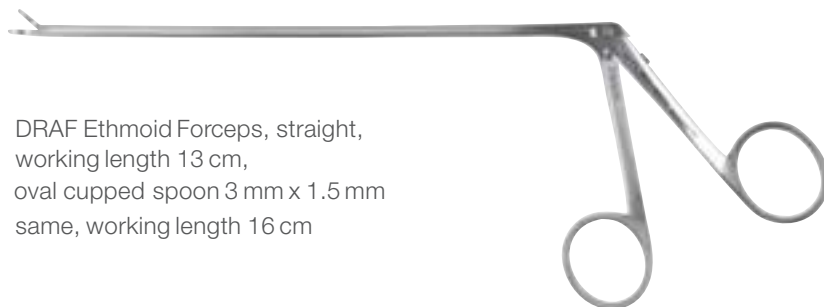
338619 same, working length 19 cm



338713 DRAF Ethmoid Scissors, straight, working length 13 cm

338716 same, working length 16 cm

338719 same, working length 19 cm



338423 DRAF Ethmoid Forceps, straight, working length 13 cm, oval cupped spoon 3 mm x 1.5 mm



338426 same, working length 16 cm



338901

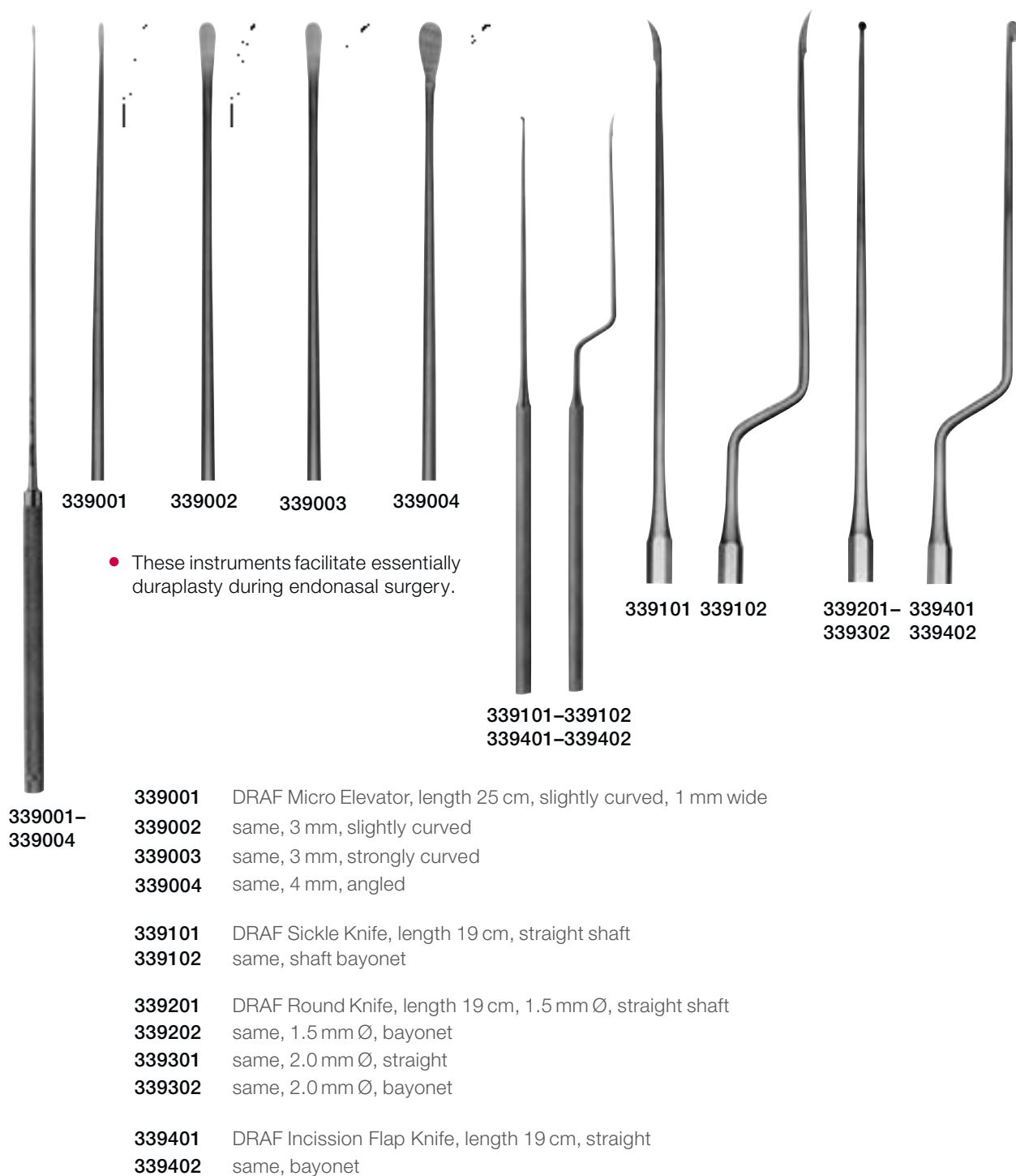


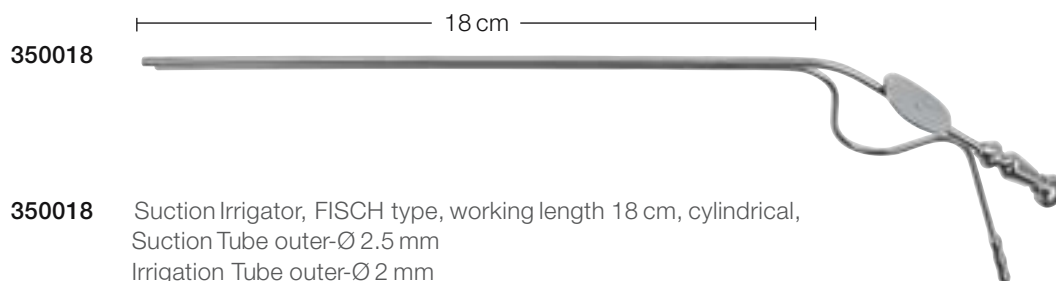
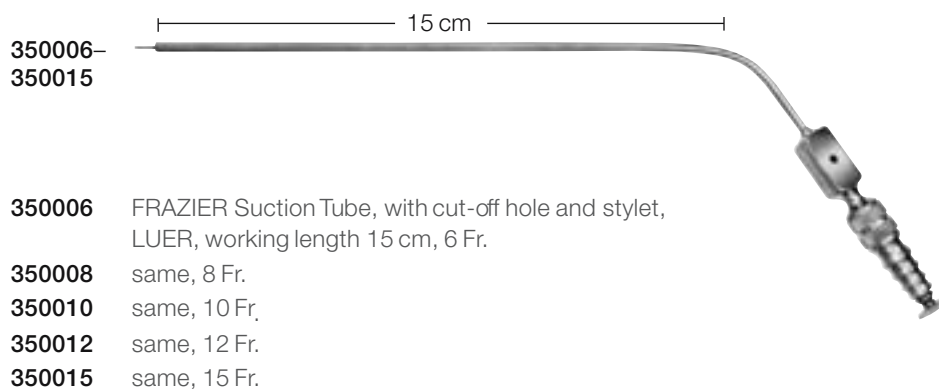
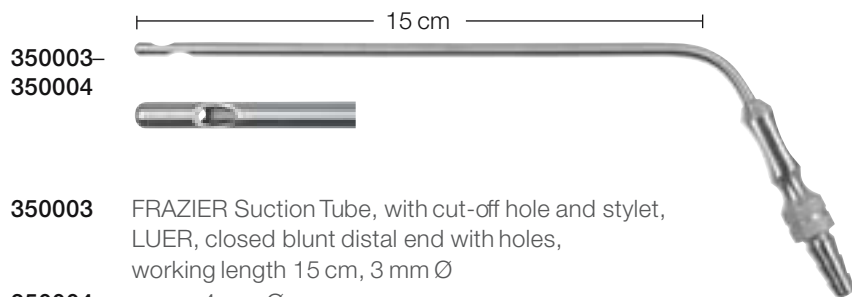
338901 DRAF Conchotome, very delicate, oval throughcutting, jaws 3 mm x 1 mm, working length 14 cm, straight



Draf Instruments

for Paranasal Sinus Surgery (cont.)





Surgical Instruments

for Paranasal Sinuses

- 149315** LICHTWITZ Antrum Trocar Needle,
working length 10 cm, outer-Ø 1.5 mm
149318 same, outer-Ø 1.8 mm
149320 same, outer-Ø 2.0 mm

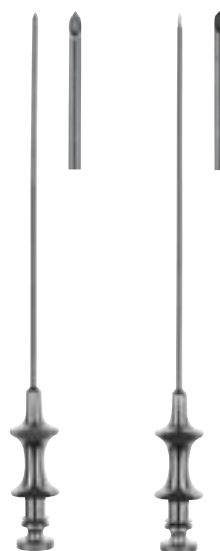
- 149518** VOGEL Antrum Trocar Needle,
with closed tip and sleeve holes,
working length 10 cm, outer-Ø 1.8 mm

- 149970** MUCK Nasal Suction Cup, glass



500000

- 500000** HAJEK Lip Retractor, 18 cm
502501 LANGENBECK Retractor, 21 cm, 35 x 7 mm
502502 same, 35 x 10 mm
502503 same, 35 x 15 mm
502504 same, 60 x 20 mm

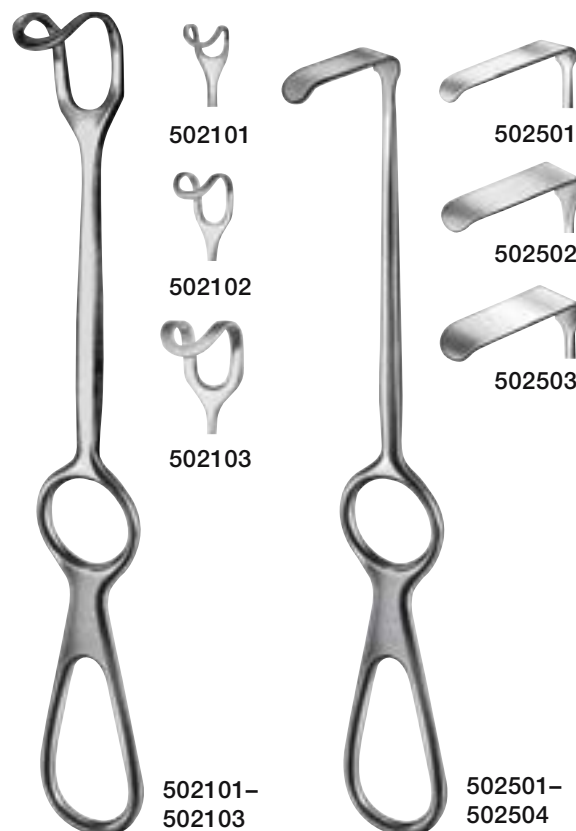


149315-
149320

149518



149970



502101

502501

502102

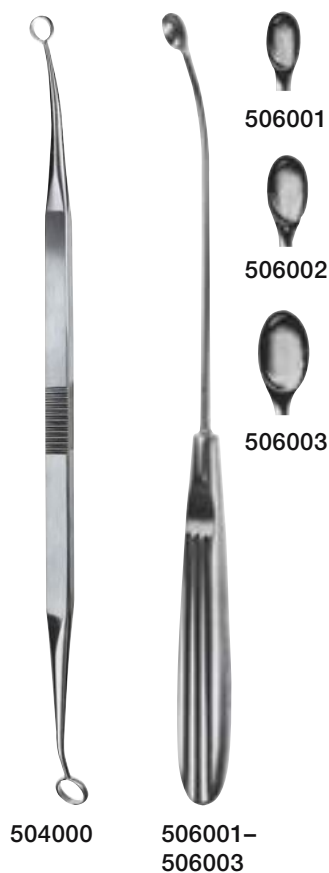
502502

502103

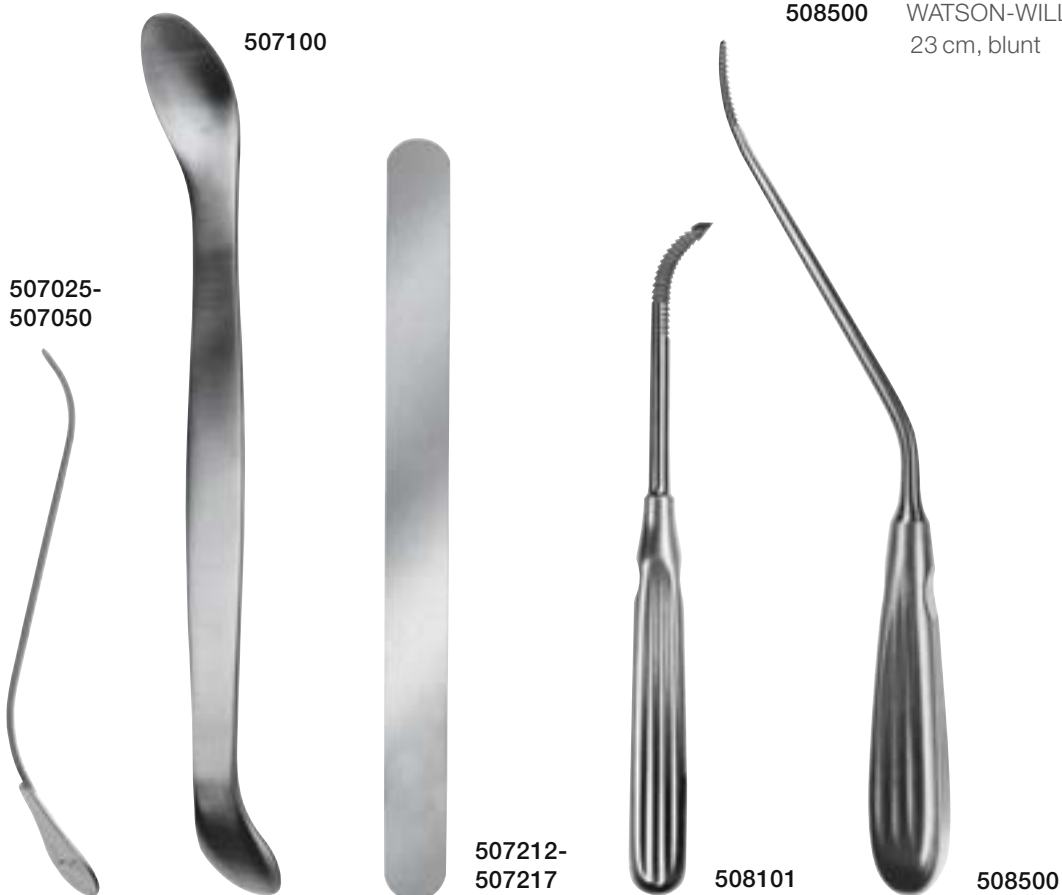
502503

502101-
502103

502501-
502504



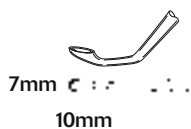
- 503001** COAKLEY Antrum Curette, 17 cm, size 1
- 503002** same, size 2
- 503003** same, size 3
- 503004** same, size 4
- 503005** same, size 5
- 503006** same, size 6
- 504000** FAULKNER Antrum Curette, double-ended, 21 cm
- 506001** HALLE Antrum Curette, malleable, 21 cm, size 1
- 506002** same, size 2
- 506003** same, size 3
- 507025** RITTER-HALLE Sinus Frontal Bougie, 14.5 cm, 2.5 mm Ø
- 507030** same, 3 mm Ø
- 507040** same, 4 mm Ø
- 507050** same, 5 mm Ø
- 507100** Orbital Retractor, length 23.5 cm
- 507212** Spatula, flexible, length 20 cm, width 12 mm
- 507217** same, width 17 mm
- 508101** WIENER Antrum Punch, curved, with trocar tip, 18 cm
- 508500** WATSON-WILLIAMS Antrum Rasp, 23 cm, blunt



Curettes, Probes, Elevators, Knives, Needles

Curettes

23-0715 Antrum curette,
bent



7023-0757 Antrum curette,
70° bend
1 pc.



Probes

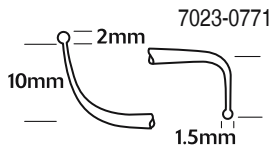
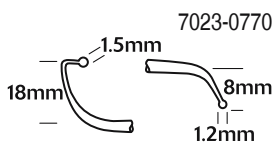
23-0725 Probes,
double-ended



Ostium seeker probe,
stainless steel,
210 mm (8.3") overall length,
1 pc., non-sterile,

7023-0770 frontal ostium seeker

7023-0771 maxillary ostium seeker



Elevators

27-0202 Dunning elevator-curette,
double-ended,
185 mm (7.3") overall length,
ebony finish

3mm
3mm
10mm
5mm

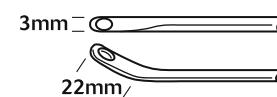


55-0737 McCollough elevator,
round,
knurled handle,
double-ended,
190 mm (7.5") overall length

2 mm
12mm
2.3 mm



7023-1050 Suction elevator, Ries,
210 mm (8.3") overall length

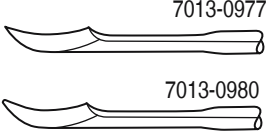


Needles

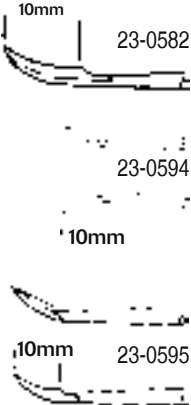
23-0666 Septal needle,
with Luer-lock,
straight
23-0667 knee bent
23-0668 bayonet

Reusable Knives

7013-0977 Sickle knife,
straight,
4 pcs.,
sharp
7013-0980 blunt



23-0582 Sickle knife,
sharp point,
190 mm (7.5") overall length,
straight blade
23-0594 30° left blade angle
23-0595 30° right blade angle



Single Use Knife

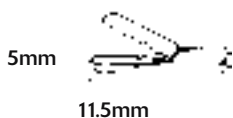
13-0801 Sickle knife,
for sinus endoscopy,
stainless steel,
sterile, single use,
6 pcs.



Forceps, Punches, Scissors

Takahashi Forceps

23-0676 Takahashi forceps,
straight, large,
100 mm shaft length



27-0155 Takahashi nasal forceps,
straight, cupped,
2.5 mm jaws width,
120 mm (4.7") shaft length,
ebony finish

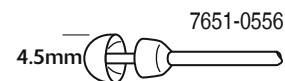
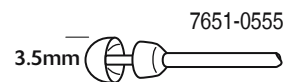


Punch

Punch,
circular cutting,
mushroom type,
1 pc.,
180 mm working length,

7651-0555 3.5 mm jaws width

7651-0556 4.5 mm jaws width



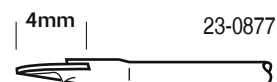
Scissors

Nasal scissors,
pediatric,
100 mm shaft length,

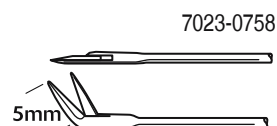
23-0877 straight

23-0878 curved right

23-0879 curved left



7023-0758 Nasal scissors,
pediatric,
upturned 45°

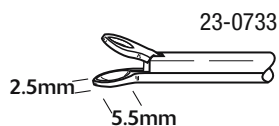
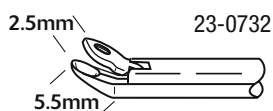


Weil Blakesley Forceps

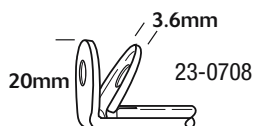
Weil Blakesley forceps,
2.5 mm jaws width,

23-0732 curved right 30°

23-0733 curved left 30°



23-0708 Weil Blakesley forceps,
3.6 mm jaws width,
upturned 90°, long

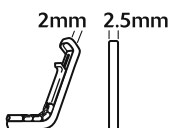


Frontal Forceps

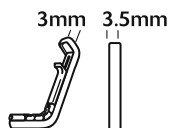
Ostium Forceps



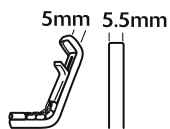
7651-0601 Ostium forceps, stainless steel, frontal, 70° upturned shaft, 125 mm (5") working length, small: 2 mm jaws width, 2.5 mm jaws length, 1 pc.



7651-0600 Ostium forceps, stainless steel, frontal, 70° upturned shaft, 125 mm (5") working length, standard: 3 mm jaws width, 3.5 mm jaws length, 1 pc.



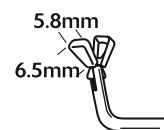
7651-0604 Ostium forceps, stainless steel, frontal, 70° upturned shaft, 125 mm (5") working length, large: 5 mm jaws width, 5.5 mm jaws length, 1 pc.



Giraffe Forceps



7651-0569 Giraffe forceps, for polyps, stainless steel, 80° upturned shaft, 115 mm (4.5") working length, pear-shaped, cupped jaws, 5.8 mm jaws width, 6.5 mm jaws length, matte finish, 1 pc.



Giraffe Biopsy Forceps

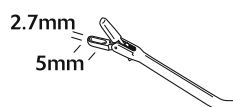


Biopsy forceps, double spoon, vertical, stainless steel, matte finish, 1 pc.,

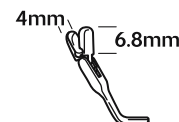
7023-0744 2.7 mm jaws width, 5 mm jaws length, 45° upturned

7023-0745 4 mm jaws width, 6.8 mm jaws length, 45° upturned

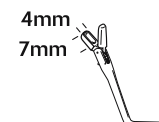
7023-0746 4 mm jaws width, 7 mm jaws length, 70° upturned



7023-0744



7023-0745



7023-0746

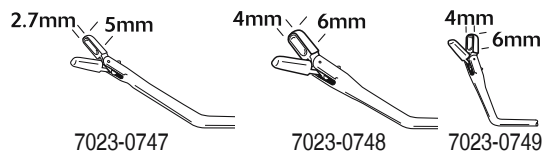
Giraffe Biopsy Forceps

Biopsy forceps,
horizontal,
stainless steel, matte finish, 1 pc.,

7023-0747 2.7 mm jaws width, 5 mm jaws length, 45° upturned

7023-0748 4 mm jaws width, 6 mm jaws length, 45° upturned

7023-0749 4 mm jaws width, 6 mm jaws length, 70° upturned

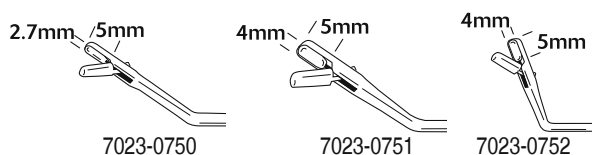


Biopsy forceps,
horizontal, short,
stainless steel, matte finish, 1 pc.,

7023-0750 2.7 mm jaws width, 5 mm jaws length, 45° upturned

7023-0751 4 mm jaws width, 5 mm jaws length, 45° upturned

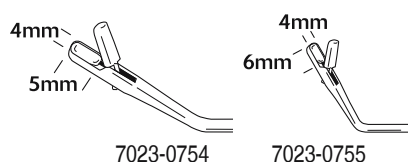
7023-0752 4 mm jaws width, 5 mm jaws length, 70° upturned



Biopsy forceps,
vertical, short,
stainless steel, matte finish, 1 pc.,

7023-0754 4 mm jaws width, 5 mm jaws length, 45° upturned

7023-0755 4 mm jaws width, 6 mm jaws length, 70° upturned



Specialty Biopsy Forceps

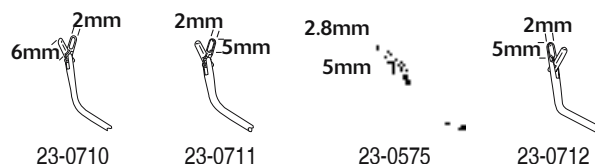
Biopsy forceps,
double spoon, for removal of delicate tissue,
70° upturned,

23-0710 2 mm jaws width, 6 mm jaws length, horizontal

23-0711 2 mm jaws width, 5 mm jaws length, horizontal, short

23-0575 2.8 mm jaws width, 5 mm jaws length, vertical

23-0712 2 mm jaws width, 5 mm jaws length, vertical, short



23-0578 Biopsy forceps,
double spoon, for removal of delicate tissue,
110° upturned,
2 mm jaws width, 7 mm jaws length, horizontal

2mm
7mm



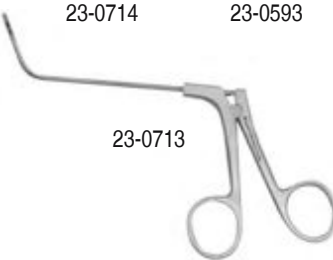
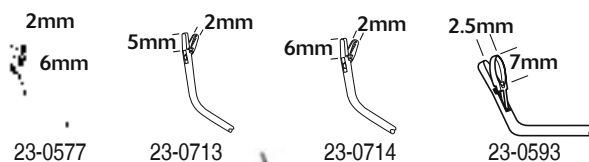
Punch forceps,
through cutting, for dissection of delicate tissue,
70° upturned,

23-0577 2 mm jaws width, 6 mm jaws length, vertical

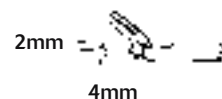
23-0713 2 mm jaws width, 5 mm jaws length, horizontal

23-0714 2 mm jaws width, 6 mm jaws length, horizontal, short

23-0593 2.5 mm jaws width, 7 mm jaws length, vertical, short



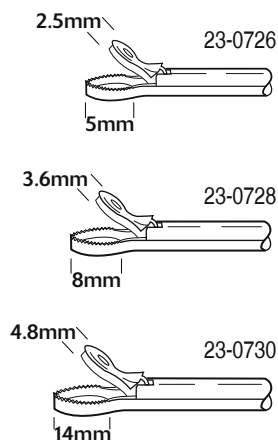
23-0592 Punch forceps,
through cutting,
for dissection of delicate tissue, straight,
2 mm jaws width, 4 mm jaws length



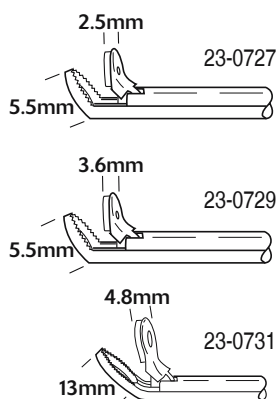
Through Cutting Forceps

Weil Blakesley Forceps

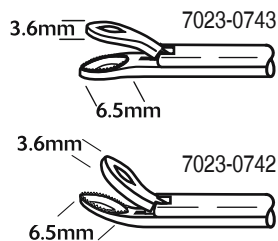
- Forceps,
through cutting,
straight,
105 mm (4.1") shaft length,
- 23-0726 2.5 mm jaws width, pediatric
23-0728 3.6 mm jaws width
23-0730 4.8 mm jaws width



- Forceps,
through cutting,
45° upturned,
95 mm (3.8") shaft length,
- 23-0727 2.5 mm jaws width, pediatric
23-0729 3.6 mm jaws width
23-0731 4.8 mm jaws width

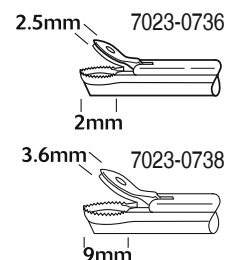


- Forceps,
through cutting,
curved left
curved right
- 7023-0743 curved left
7023-0742 curved right

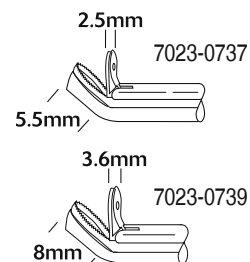


Weil Blakesley Forceps With Suction

- Forceps, with suction,
through cutting,
straight,
105 mm (4.1") shaft length,
- 7023-0736 2.5 mm jaws width
7023-0738 3.6 mm jaws width



- Forceps,
through cutting,
upturned,
95 mm (3.8") shaft length,
- 7023-0737 2.5 mm jaws width
7023-0739 3.6 mm jaws width



Fergusson Suction Tube

23-0875 Suction tube,
calibrated,
100 mm (3.9") working length,
160 mm (6.3") overall length,
with finger cut-off

With depth marking: Marks at 5–9 cm from tip.

Rains Malleable Irrigation

7013-1011 Irrigation tube,
stainless steel,
387 mm (15.2") overall length,
sterile, single use,
6 pcs.



Contents

FK Laryngo-Pharyngoscope	PLH-100	Instruments for Tonsillectomy	PLH-180
	PLH-105		PLH-185
	PLH-110		PLH-190
			PLH-195
FK-WO TORS			
Laryngo Pharyngoscope Retractor	PLH-112	Micro Endoscopes for Salivary Duct	PLH-200
Forceps, Conchotomes, Punches	PLH-115	Instruments for Salivary Duct	PLH-202
	PLH-120		
		Micro Endoscope for Lacrimal Duct	PLH-205
Adenoid Currettes	PLH-125		
		Endonasal Dacryocystorhinostomy	PLH-210
Instruments for Adenotomy	PLH-130		
		Lacrimal Duct	
Epipharynx Instruments		Complementary Sets	PLH-215
for Operation Under Vision	PLH-135		
	PLH-140	Laryngeal Instruments	PLH-230
			PLH-235
Standard Tongue Depressors	PLH-142		
		Instruments for Tracheostomy	PLH-240
Chest Supports,			
Suspension Apparatus	PLH-145		
Mouth Gags and Tongue Depressors	PLH-150		
	PLH-155		
	PLH-160		
	PLH-165		
	PLH-170		
	PLH-175		

FK Laryngo- Pharyngoscope



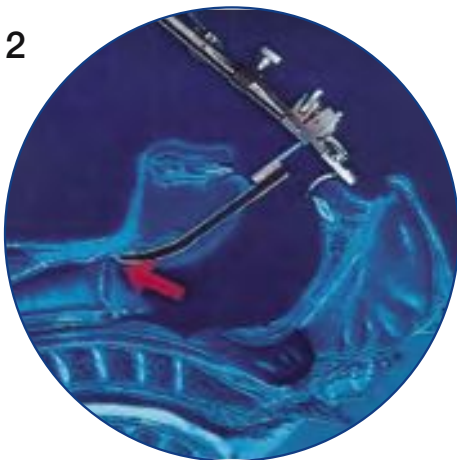
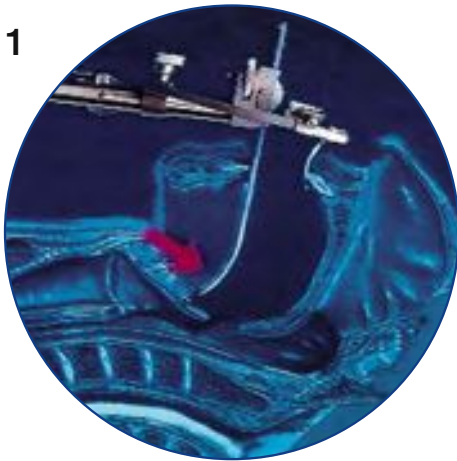
The development of the FK Laryngo- Pharyngoscope offers a considerable relief in the day-to-day practice of lasersurgery and conventional micro surgery of the upper aerodigestive tract.

- ✓ Excellent view of the anatomy as the situs is largely exposed.
- ✓ The working area is not restricted anymore through the abandonment of the tube system.
- ✓ Gentle teeth protection with wider distribution of pressure over the upper jaw.

- ✓ Excellent illumination of the operational area due to the fact that the illumination fibre runs along the blade down to the situs.
- ✓ Increased freedom of hands due to the presence of additional instruments which can be fixed to the outer frame.
- ✓ With the choice of different blades and the same basic framework, different anatomical regions can be focused upon.
- ✓ By means of adjustable angles of the device, it is possible to use the system without strong reclination of the head.

Illustrations:

- (1) Exposure of oropharynx
- (2) Exposure of larynx
- (3) Exposure of hypopharynx



Developed by Ludwig-Maximilians-University Munich
 Prof. Barbara Wollenberg, MD
 Prof. Ernst Kastenbauer, MD

FK Laryngo-Pharyngoscope

(cont.)



640100

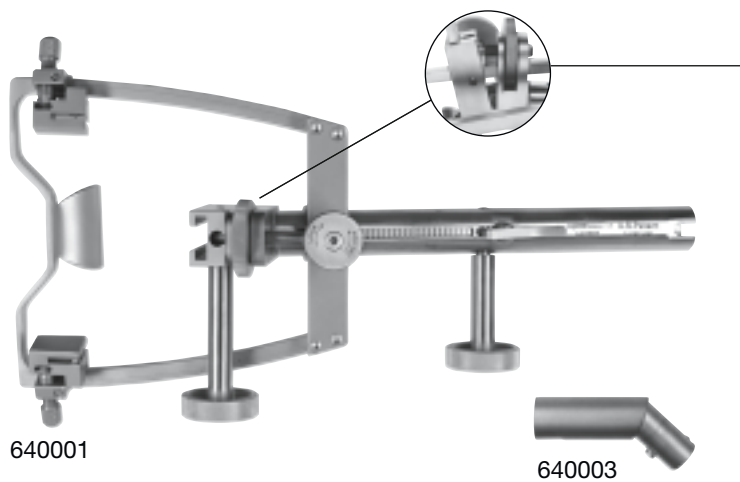
FK LARYNGO-PHARYNGOSCOPE

Complete Set for Epi-, Oro-, Hypopharynx and Laryngoscopy, consisting of:

- 1 Basic frame with elongation (640001 + 640003)
- 1 Fiber-Optic Light carrier with connection (640004 + 640008)
- 1 Tongue Blade, curved, for all application (640013)
- 1 Tongue Blade, curved, for access to the right side of tongue base (640016)
- 1 Tongue Blade, curved, for access to the left side of tongue base (640017)
- 1 WOLLENBERG Laryngeal Blade, concave, curved (640019)
- 1 SIMON Mandible Blade (640020)
- 2 Cheek Retractors, flexible, short (640111)
- 1 Adjustable holder for smoke suction tube, tumour grasping forceps and telescopes 4 mm Ø (640021)
- 1 Smoke Evacuation Tube, (640025)

FK CD-ROM

640035 FK CD-ROM (introduction of device and operation sequences)



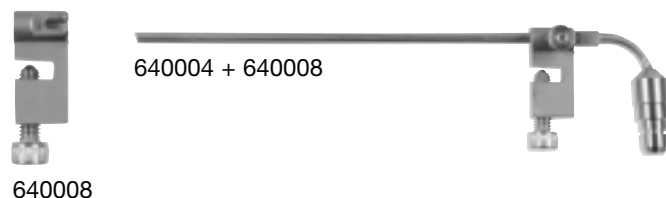
- Better overview in the larynx through vertical turning of the tongue blade

640001 FK Basic Frame, improved model, with elongation 640003 for chest support

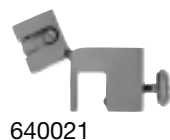
640003 Attachment only, for connection of frame to chest support and for use of chest support on a table



640004 Fiber Optic Light Carrier only, fitting to FK Laryngo-Pharyngoscope, connection to Explorent/Storz/Wolf



640008 Support only, for Fiber Optic Light Carrier 640004



640021 Movable Holding Device, fitting to smoke suction tube, tumour grasping forceps and telescopes 4 mm Ø



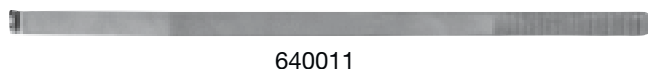
640025 Smoke Evacuation Tube only, 4 mm Ø, stainless steel



640045 FK Self Retaining Tumour Grasping Forceps, flexible, with 3 grasping teeth, working length 23 cm, shaft 4 mm Ø

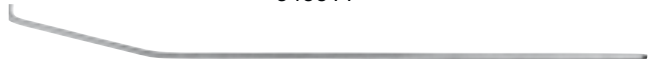
FK Laryngo- Pharyngoscope

(cont.)



640011

640011 Cheek Retractor, flexible,
length 22.5 cm

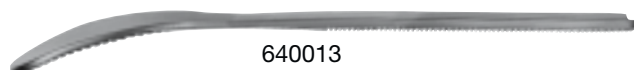


640111

640111 same, length 13.5 cm



640111



640013

640013 Tongue Blade, curved,
length 22 cm



640013



640016 - 640017

640016 Tongue Blade, curved,
length 22 cm, for access to the
right side of tongue base
(for tumours of the base of tongue, etc.)



640016 right



640017 left

640017 same, for access to the left side



640019

640019 WOLLENBERG Laryngeal Blade,
concave, working length 17 cm



640020

640020 SIMON Mandible Blade,
total length 14 cm, for surgery of tumours
of the apex and the surface of the tongue



640050

640050 WOLLENBERG Diverticuloscope Blade,
concave, working length 22 cm

- 630400 LaryngoscopeHolder and Chest Support with rod
for adults, for use with the FK-Laryngo-Pharyngoscope
and standard laryngoscopes.
Ring-Ø: 9.5 cm, rod length 34 cm
- 630500 Rod for children, ring Ø: 9.5 cm,
length 24 cm



630400



Applications:

- ✓ Transoral robotic surgery
- ✓ Laser surgery
- ✓ Micro-laryngeal surgery

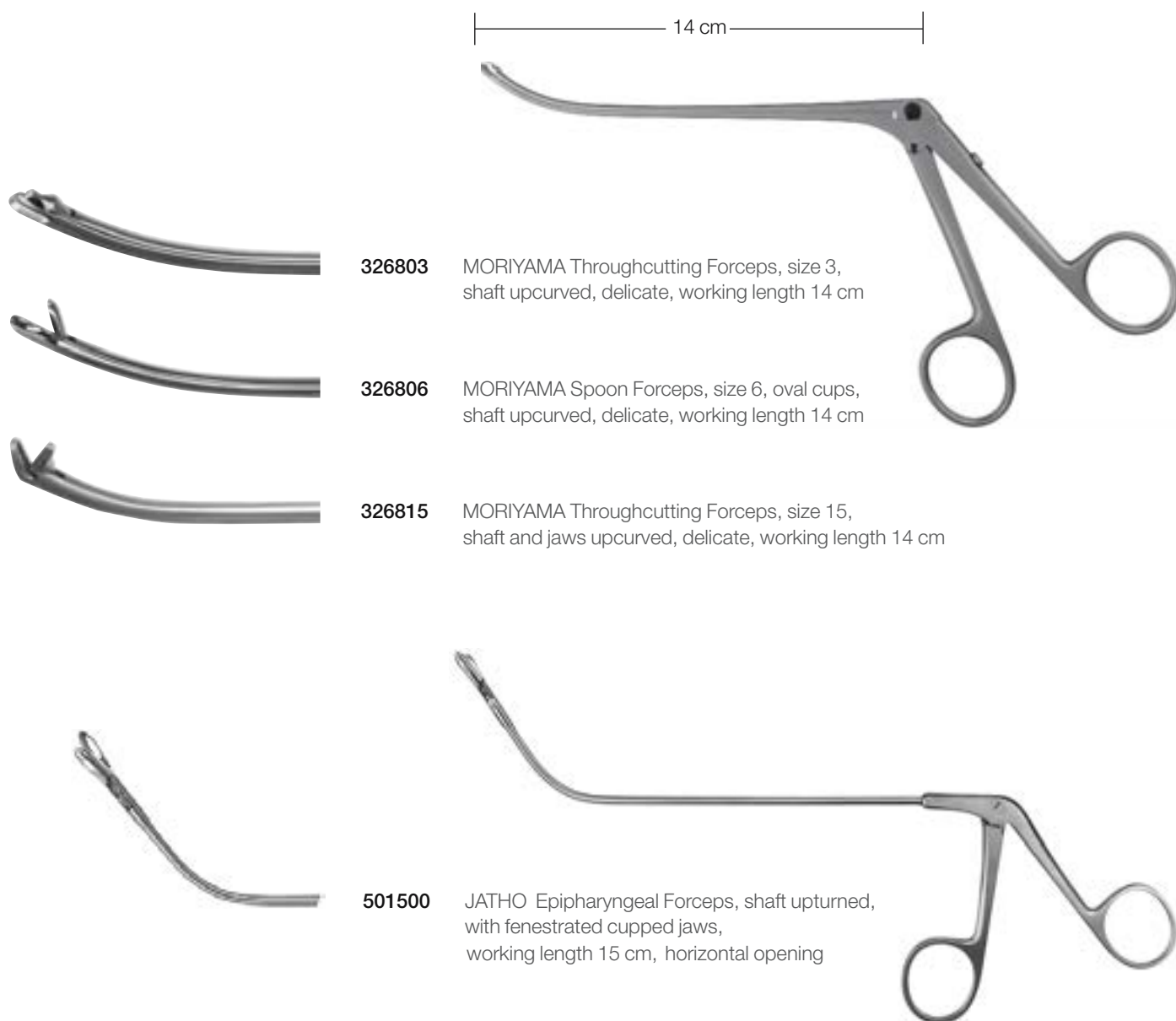
645000 FK-WO TORS laryngo pharyngoscope retractor,
complete set



Delivery of 645000 includes:

- 645001 FK-WO TORS basic frame, 1 pc., with adapter 640003
- 640003 Adapter, for FK-WO TORS basic frame
- 645030 Weinstein-O'Malley TORS blade, small, left, 1 pc.
- 645031 Weinstein-O'Malley TORS blade, small, right, 1 pc.
- 645032 Weinstein-O'Malley TORS blade, large, left, 1 pc.
- 645033 Weinstein-O'Malley TORS blade, large, right, 1 pc.
- 645013 Tongue blade, curved, 1 pc.
- 645016 Tongue blade, curved, right side open, 1 pc.
- 645017 Tongue blade, curved, left side open, 1 pc.
- 645019 Wollenberg laryngeal blade, 17 cm, concave, 1 pc.
- 645020 Simon mandible blade, 11 cm, 1 pc.
- 645006 Wollenberg light clip, with lateral cable connection, 1 pc.
- 645011 Cheek retractor, curved, 2 pcs.
- 640021 Adapter, for tumor grasping forceps or suction tube, 1 pc.
- 645025 Suction tube, 4 x 170 mm, for smoke
- 996050 Teeth protector, latex free, not autoclavable, 10 pcs.
- 806450 Container, for FK-WO TORS retractor, 1 pc.

Forceps, Conchotomes, Punches



Forceps, Conchotomes, Punches

(cont.)

501600



501600 FRENZEL Conchotome, ring-shaped jaws, 10 mm Ø, shaft upturned, working length 14 cm, for adenotomy

501900

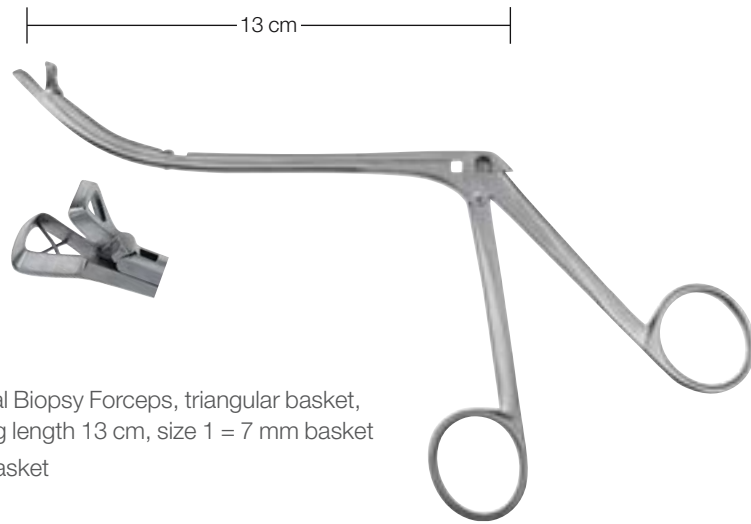


501900 JURACZ Adenoid Forceps, sharp, length 18 cm

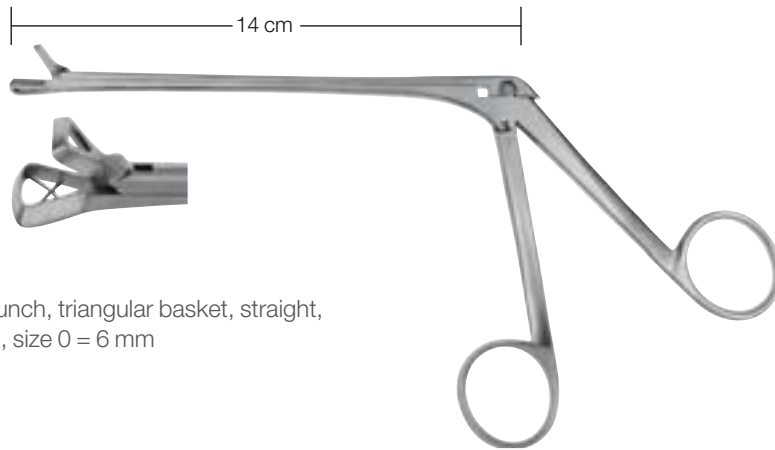
502000



502000 ST. CLAIR-THOMSON Adenoid Forceps, sharp, length 19 cm

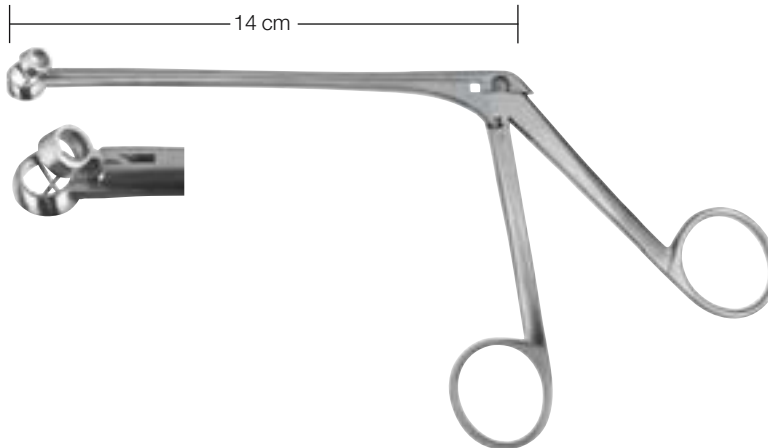


502201 RONIS Nasopharyngeal Biopsy Forceps, triangular basket, upturned shaft, working length 13 cm, size 1 = 7 mm basket
502202 same, size 2 = 8 mm basket



502300 MELTZER Adenoid Punch, triangular basket, straight, working length 14 cm, size 0 = 6 mm
502301 same, size 1 = 7 mm
502302 same, size 2 = 8 mm
502303 same, size 3 = 10 mm

502311 same, with round basket, working length 14 cm, size 1 = 7 mm
502312 same, size 2 = 8 mm



Adenoid Curettes



**540000-
540005**

**540100-
540105**

**540200-
540205**

- 540000** BECKMANN Adenoid Curette, straight, length 22 cm, size 0
540001 same, size 1
540002 same, size 2
540003 same, size 3
540004 same, size 4
540005 same, size 5
- 540100** same, with basket, straight, length 22 cm, size 0
540101 same, size 1
540102 same, size 2
540103 same, size 3
540104 same, size 4
540105 same, size 5



- 540200** Reverse Curve Adenoid Curette, length 21 cm, size 0
540201 same, size 1
540202 same, size 2
540203 same, size 3
540204 same, size 4
540205 same, size 5



540400 BARNHILL Adenoid Curette, 21.5 cm, size 0
540401 same, size 1
540402 same, size 2
540403 same, size 3
540404 same, size 4

540701 JONES Adenoid Curette, length 22.5 cm,
for infants, cutting edge 4 mm
540702 same, for children, cutting edge 6 mm
540703 same, for adults, cutting edge 8 mm

540800 VOGEL Adenoid Curette, length 21.5 cm,
infant size, 9 x 12 mm curved tip,
cutting edge 7 mm

540850 MIDDLETON Adenoid Curette,
length 22.5 cm, long narrow tip
25 x 10 mm, cutting edge 7 mm

540900 STUBBS Adenoid Curette, length 22 cm,
shaft angled, tip curved,
size 0 = 11 mm cutting edge
540901 same, size 1 = 14 mm cutting edge
540902 same, size 2 = 16 mm cutting edge
540903 same, size 3 = 18 mm cutting edge

Instruments for
Adenotomy



540501-
540503

- All Adenotomes and Blades are made of stainless-steel



1



2



3

540501-
540503



540511-
540513

540501 LA FORCE Adenotome, 23 cm, size 1 = 18 mm,
simplified model, easy detachable
540502 same, size 2 = 16 mm
540503 same, size 3 = 12 mm

540511 Blade for use with Adenotomes
540501 and 540601, size 1
540512 same, size 2, for 540502 and 540602
540513 same, size 3, for 540503 and 540603



156100



543000



543500



544000

156100 PELTESON Laryngeal Applicator, length 23.5 cm

543000 NAGER Pillar Retractor, length 21 cm

543500 HOFER Arch Palate Hook, length 23 cm

544000 HASLINGER Uvula Retractor, length 17 cm

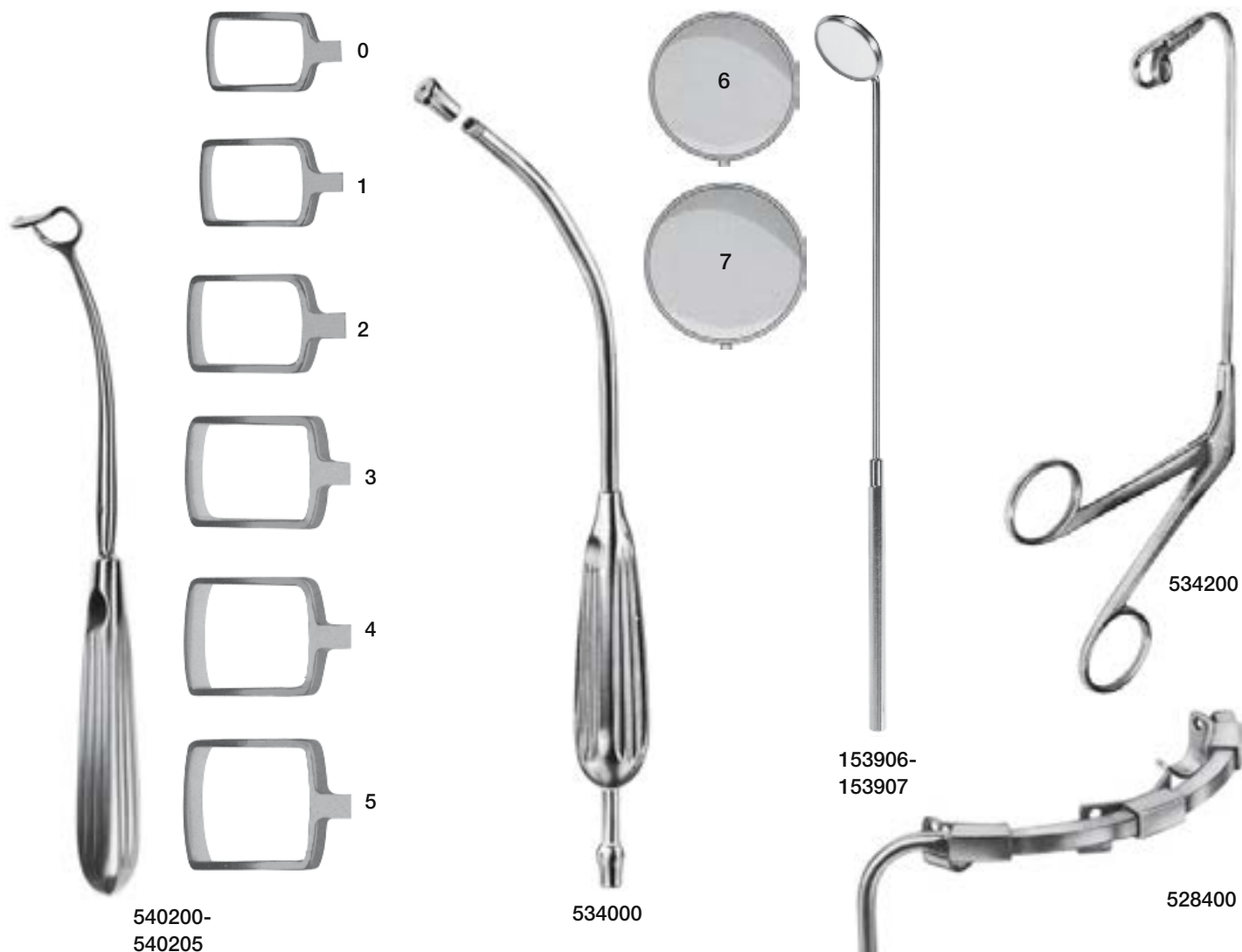
Epipharynx Instruments

for Operation Under Vision



Today, general anaesthesia with intubation makes precise adenoidectomy under vision possible. Blind curettage followed by probing with the forefinger - the technique used in the past and sometimes still today - cannot guarantee complete removal of the adenoids. For, remnants of the adenoids situated in the choanal and/or the Rosenmueller fossae cannot be detected with the finger, nor can they be removed by repeated curettage. However, performing the operation under vision enables the surgeon not only to remove the adenoids completely but also to stop the bleeding by means of bipolar electrocoagulation. Postoperative bleeding is thereby practically excluded. The high frequency of serotympanons and mucotympanons demonstrates the importance of correct adenoidectomy. The technique under vision is also optimal when looking for malignant tumors in the epipharynx, especially in adult patients. The additional use of an operation microscope - focused on the laryngeal mirror - allows accurate evaluation of the mucosa in the epipharynx. Specimens of suspected tissue can be taken with the help of these instruments used for adenoidectomy.

Dr. Walter Meuser, M.D., Wuppertal, Germany



- 153906** Pharyngeal Mirror with octagonal handle, size 6
153907 same, size 7
534000 YANKAUER Suction Tube, 27 cm, complete w. tip
534200 MEUSER Punch Forceps, round, tubular model, downwards curved

- 540200** Reverse Curve Curette, length 21 cm, size 0
540201 same, size 1
540202 same, size 2
540203 same, size 3
540204 same, size 4
540205 same, size 5

- 528400** DAVIS-MEYER Mouth Gag

- 525001** McIVOR Tongue Depressor, size 1 (23 x 70 mm)
525002 same, size 2 (25 x 86 mm)
525003 same, size 3 (26 x 100 mm)



Epipharynx Instruments

for Operation Under Vision (cont.)



209001	Dressing Forceps, serrated, delicate, length 14.5 cm
330002	BLAKESLEY Nasal Forceps, straight, size 2
826601	MEUSER Bipolar Electrode, 90° angled, length 22 cm
826602	same, 45° angled
932500	KABIERSKE Powder Blower, with 1 straight cannula
932513	Cannula, curved

Standard Tongue Depressors



151000



151100



152000



152100
152200



152500



152600

- 151000** BRUENINGS Tongue Depressor, 18/8 stainless, 19 cm
- 151100** FRENZEL Tongue Depressor, stainless, 16.5 cm
- 152000** EXPLORENT Tongue Depressor, 18/8 stainless, 17 cm
- 152100** DOYEN Tongue Depressor, 18/8 stainless,
for children, length 13 cm
- 152200** same, for adults, length 16 cm
- 152500** HARTMANN Tongue Depressor, stainless, length 15 cm
- 152600** TOBOLD Tongue Depressor, solid, stainless, length 14.5 cm

Chest Supports, Suspension Apparatus

529000
529100



529200



529000 NEGUS Chest Support, with band 529001,
rod length 14 cm, for adults

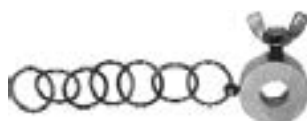
529100 same, for children, rod length 8.5 cm

529200 Chest Support "Wuerzburg Model"

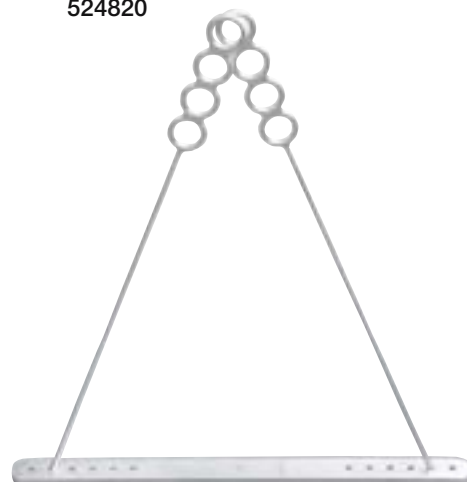
524820 DRAFFIN Suspension Apparatus Bipod
for use with Tongue Blades 525001-528407
and Mouth Gags 525000-528400

524810 Chain with ring to suspend the
mouth gag at the frame 524820 and 524800

524810



524820



Mouth Gags and Tongue Depressors

522009-
522013



524011-
524013



522009	SEEMANN-SEIFFERT Mouth Gag, new model, self retaining, length 9 cm, small size, for children
522011	same, length 11 cm, standard size
522013	same, length 13 cm, large size
524011	SEEMANN-SEIFFERT Mouth Gag, standard model, length 11 cm
524013	same, length 13 cm

520009-
520013



520009 JENNINGS Mouth Gag, open type, length 9 cm

520011 same, length 11 cm

520013 same, length 13 cm

523009-
523015



523009 JENNINGS Mouth Gag, standard type, length 9 cm

523011 same, length 11 cm

523013 same, length 13 cm

523015 same, length 15 cm

521009-
521013



521009 WHITEHEAD Mouth Gag, length 9 cm

521011 same, length 11 cm

521013 same, length 13 cm

Mouth Gags and Tongue Depressors

(cont.)

- 525000** McIVOR Mouth Gag, frame only,
for use with Tongue Depressors
525001-528605
- 525001** McIVOR Tongue Depressor, smooth,
size 1 = 23 x 70 mm
- 525002** size 2 = 25 x 86 mm
- 525003** size 3 = 26 x 100 mm
- 525010** McIvor Mouth Gag, complete with
3 Tongue Depressors 525001-525003



525000
525010

525001



525002



525003



525001-
525003



526000-
526300



528400



526000 DAVIS-BOYLE Mouth Gag. Left frame only,
for use w. Tongue Depressors 525001-528605

526200 same, right frame only

526300 same, for children, left frame only

526010 Silicone Bite Liners, removable, for 526000 -
526300, autoclavable, in pairs

528400 DAVIS-MEYER Mouth Gag. Right frame
only, for use with Tongue Depressors
525001-528503



527000 KILNER-DOUGHTY Mouth Gag. Left frame
only, for Tongue Depressors 525001-528605

527010 Palate Support only, for toothless,
for 527000

527000

527010

Mouth Gags and Tongue Depressors

(cont.)

526001 -
526105



526001 DAVIS-BOYLE Tongue Depressor,
smooth blades,
length 13.5 cm, size 1 = 20 x 30 mm

526002 same, size 2 = 23 x 65 mm

526003 same, size 3 = 24 x 80 mm

526004 same, size 4 = 25 x 93 mm

526005 same, size 5 = 26 x 108 mm



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4



5

526102 DAVIS-BOYLE Tongue Depressor,
with anaesthetic tube, size 2 = 23 x 65 mm

526103 same, size 3 = 24 x 80 mm

526104 same, size 4 = 25 x 93 mm

526105 same, size 5 = 26 x 108 mm



2

526301-
526305



526301 DAVIS-BOYLE Tongue Depressor,
for children, smooth blades, length 9.8 mm,
size 1 = 17 x 30 mm

526302 same, size 2 = 19 x 45 mm

526303 same, size 3 = 20 x 60 mm

526304 same, size 4 = 22 x 70 mm

526305 same, size 5 = 22 x 80 mm

Only fitting with Mouth Gag for children
Art.No. 526300.



1



2



3



4



5

Mouth Gags and Tongue Depressors

(cont.)

527001-
527005



528601-
528605



- 527001 RUSSEL-DAVIS Tongue Depressor with central channel, size 1 = 28 x 65 mm
- 527002 same, size 2 = 32 x 75 mm
- 527003 same, size 3 = 37 x 80 mm
- 527004 same, size 4 = 41 x 94 mm
- 527005 same, size 5 = 46 x 103 mm

- 528601 RUSSEL-DAVIS Tongue Depressor with central channel and lateral outlet, size 1
- 528602 same, with lateral outlet, size 2
- 528603 same, with lateral outlet, size 3
- 528604 same, with lateral outlet, size 4
- 528605 same, with lateral outlet, size 5



1



2



3



4



5

527001-
527005



5

528601-
528605

527600



527600 DINGMANN Mouth Gag, Frame only,
with 2 rotating cheek holders,
2 movable tooth hooks and thread guide

527601 DINGMANN Tongue Depressor
size 1 = 24 x 62 mm

527602 same, size 2 = 28 x 65 mm

527603 same, size 3 = 31 x 75 mm

527610 DINGMANN Mouth Gag, complete with
3 Tongue Depressors 527601-527603



1



2



3

Mouth Gags and Tongue Depressors

(cont.)

528001-
528005



- 528001** Tongue Depressor "Wuerzburg Model"
size 1 = 28 x 66mm
- 528002** same, size 2 = 32 x 75mm
- 528003** same, size 3 = 34 x 83mm
- 528004** same, size 4 = 37 x 93mm
- 528005** same, size 5 = 38 x 100mm



528202-
528205



528302-
528305



528202 RING Tongue Depressor, left side,
size 2 = 23 x 58 mm

528203 same, size 3 = 27 x 72 mm

528204 same, size 4 = 34 x 87 mm

528205 same, size 5 = 37 x 95 mm



2

528302 RING Tongue Depressor, right side,
size 2 = 23 x 58 mm

528303 same, size 3 = 27 x 72 mm

528304 same, size 4 = 34 x 87 mm

528305 same, size 5 = 37 x 95 mm



3



4



5

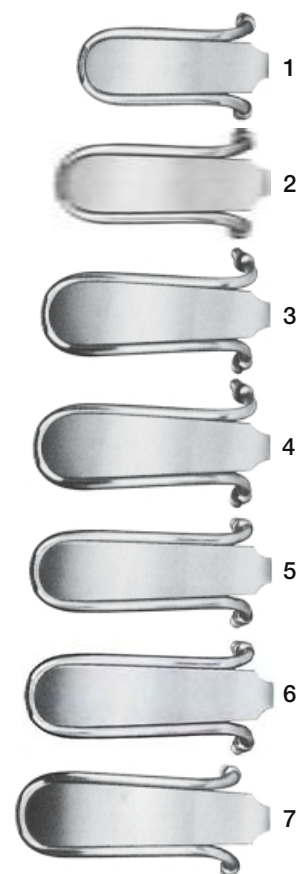
Mouth Gags and Tongue Depressors

(cont.)

528401-
528407



- 528401** DAVIS-MEYER Tongue Depressor,
with anaesthetic tubes on both sides,
size 1 = 29.0 x 70 mm
- 528402** same, size 2 = 30.5 x 75 mm
- 528403** same, size 3 = 31.5 x 80 mm
- 528404** same, size 4 = 32.5 x 85 mm
- 528405** same, size 5 = 33.5 x 95 mm
- 528406** same, size 6 = 33.8 x 100 mm
- 528407** same, size 7 = 34.0 x 105 mm



528501-
528504



1



2



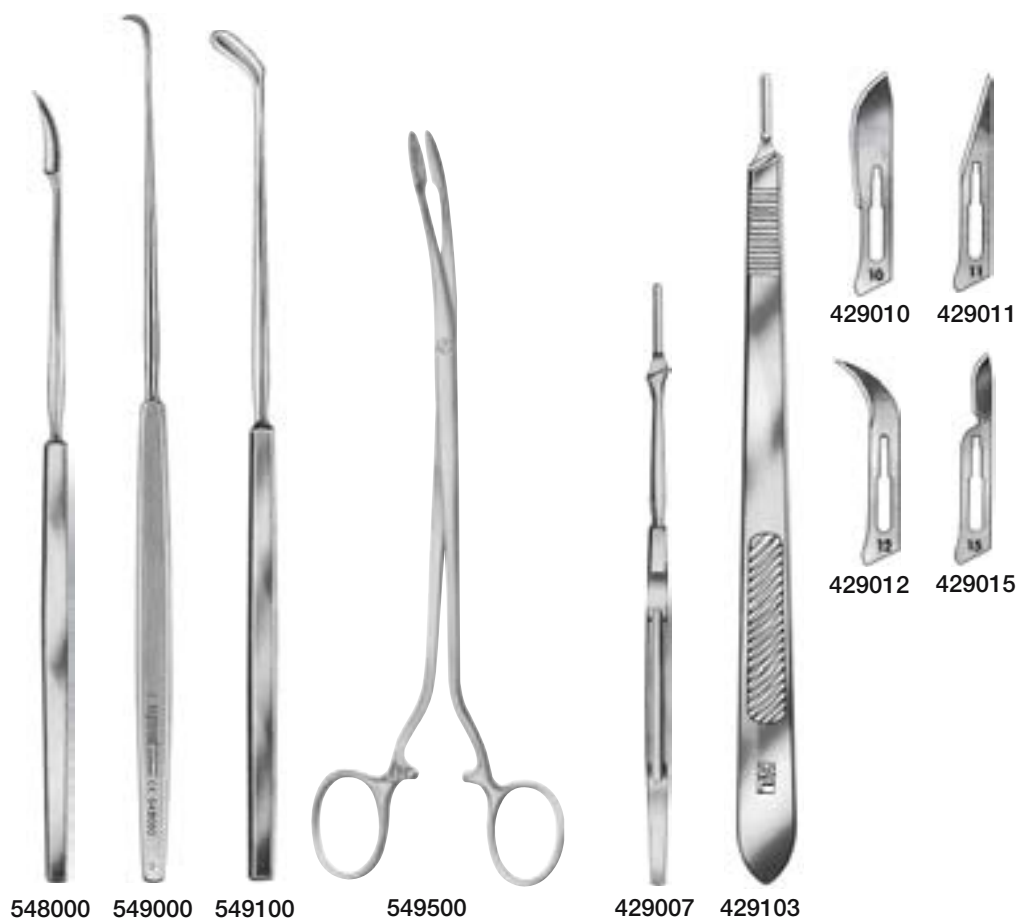
3



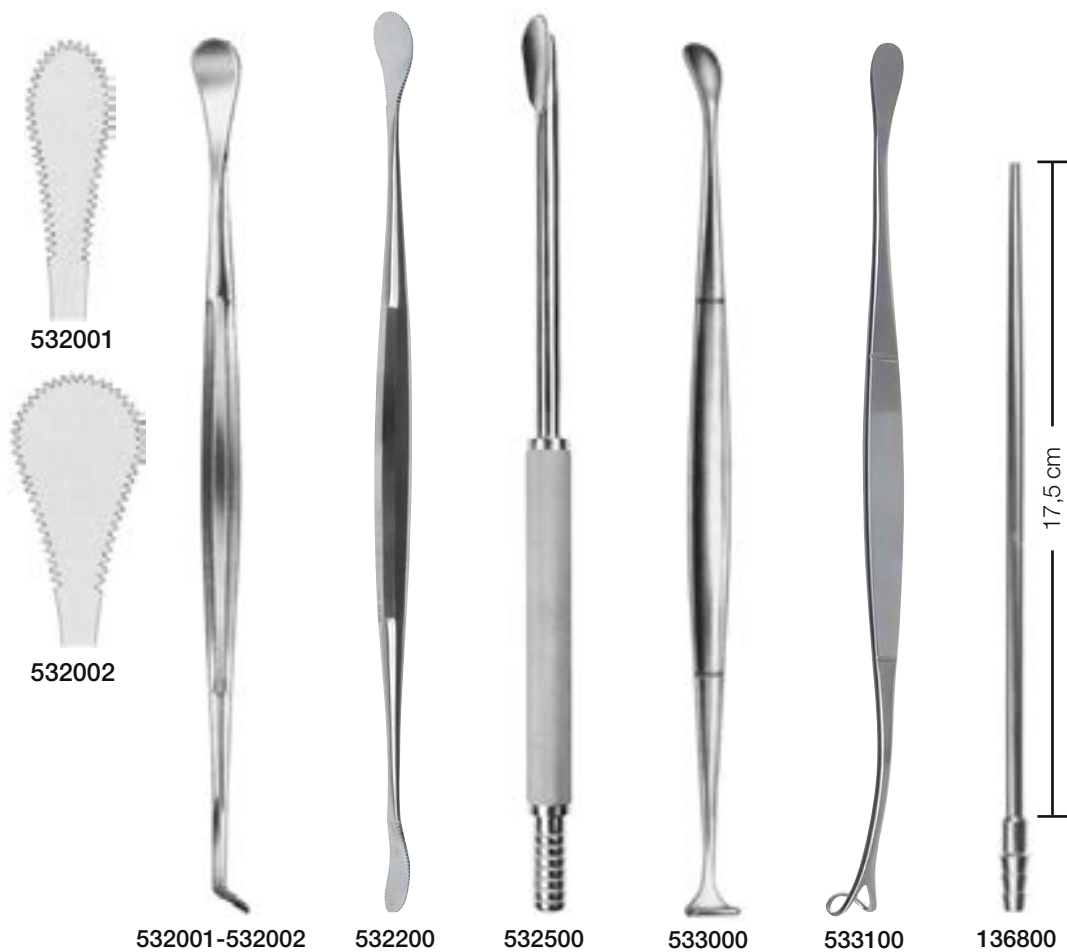
4

- 528501** HERBERHOLD Tongue Depressor,
size 1 = 28 x 63 mm
- 528502** same, size 2 = 33 x 73 mm
- 528503** same, size 3 = 37 x 82 mm
- 528504** same, size 4 = 42 x 91 mm

Instruments for Tonsillectomy



- 429007** Scalpel Handle No. 7, length 16 cm
- 429010** Scalpel Blades, sterile, pack of 100 pieces, size 10
- 429011** same, size 11,
- 429012** same, size 12,
- 429015** same, size 15,
- 429103** Scalpel Handle No. 3L, length 21.5 cm
- 548000** ABRAHAM Tonsil Knife, length 21 cm
- 549000** BRUENINGS Tonsil Knife, length 23 cm
- 549100** COLVER (Fisher) Tonsil Knife and Dissector, length 22.5 cm
- 549500** DUPLAY Dressing Forceps, curved, with ratchet, 20 cm



- 532001** HENKE Tonsil Dissector and Separator, length 23 cm, small size = 12 mm wide
- 532002** same, large size = 17 mm wide
- 532200** HENKE Tonsil Dissector, double-ended, length 24 cm width 12 mm and 18 mm
- 532500** STIERLEN Suction Dissector, width 13.5 mm, length 24 cm
- 533000** HURD Tonsil Dissector and Retractor, width 10 mm, length 23 cm
- 533100** HURD Tonsil Elevator with fenestrated hook, width 11.5 mm, length 23 cm
- 136800** Suction Tube, conical, Luer, length 20 cm, 3 mm Ø

Instruments for Tonsillectomy

(cont.)



535000 BLOHMKE Tonsil Forceps, curved, length 21 cm

535500 COLVER Tonsil Forceps, straight, length 19 cm

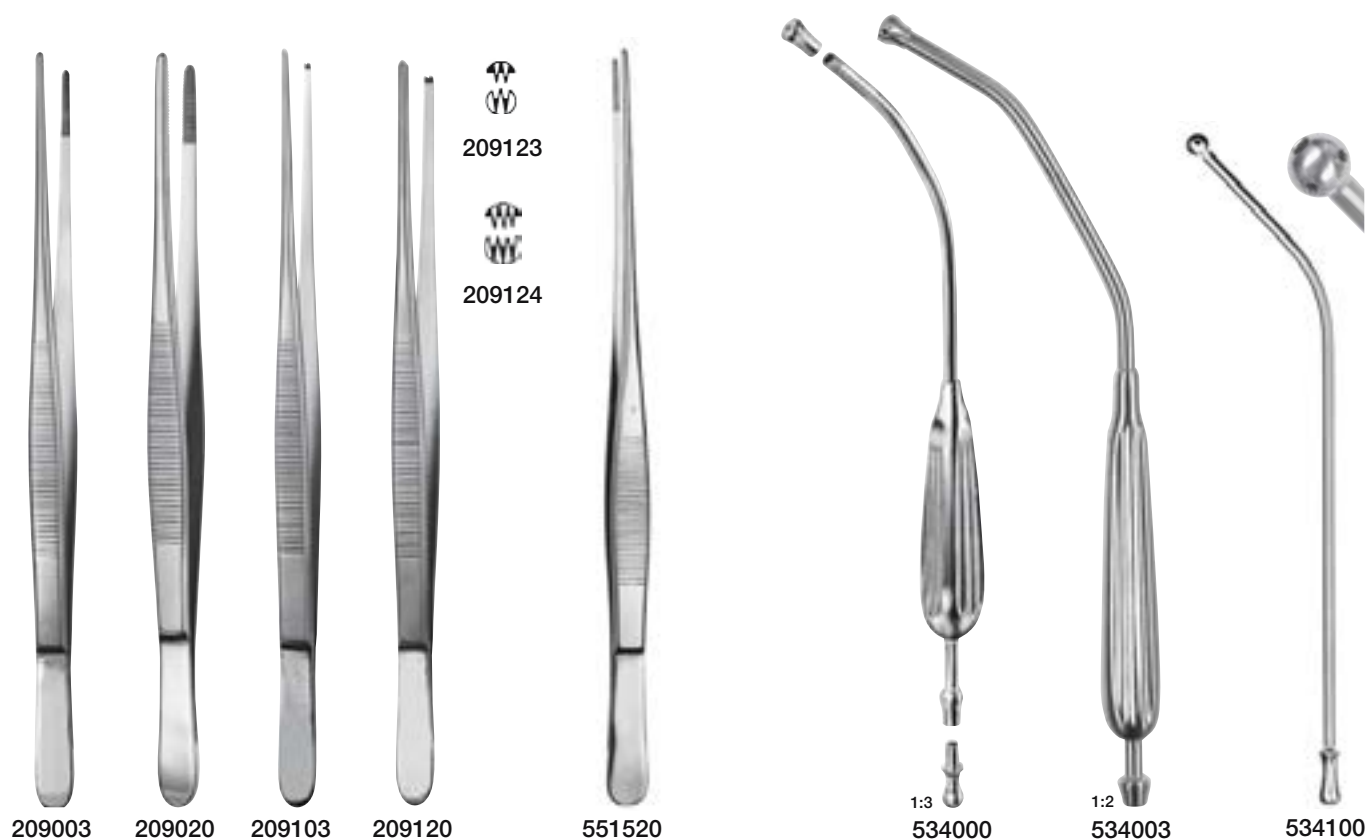
535501 same, curved

536000 TYDING Tonsil Forceps, 2x2 teeth, length 21 cm

536100 TIVNEN Tonsil Forceps, 3x3 teeth, length 21 cm

537018 WHITE Tonsil Forceps, length 18 cm

537023 same, length 23 cm



209003 Dressing Forceps, serrated, straight, length 20 cm, delicate
209020 same, standard model

209103 Tissue Forceps, 1:2 teeth, straight, length 20 cm, delicate
209120 same, standard model, 1:2 teeth

209123 same, 2:3 teeth

209124 same, 3:4 teeth

534000 YANKAUER Suction Tube, cpl. with tip and Luer connector, length 27 cm

534003 same, small size, length 21 cm

534100 Tonsil Suction Tube "Model Großhadern" with ball end,
 O. D. 10 mm, I. D. 5 mm, length 23 cm, Luer, stainless steel

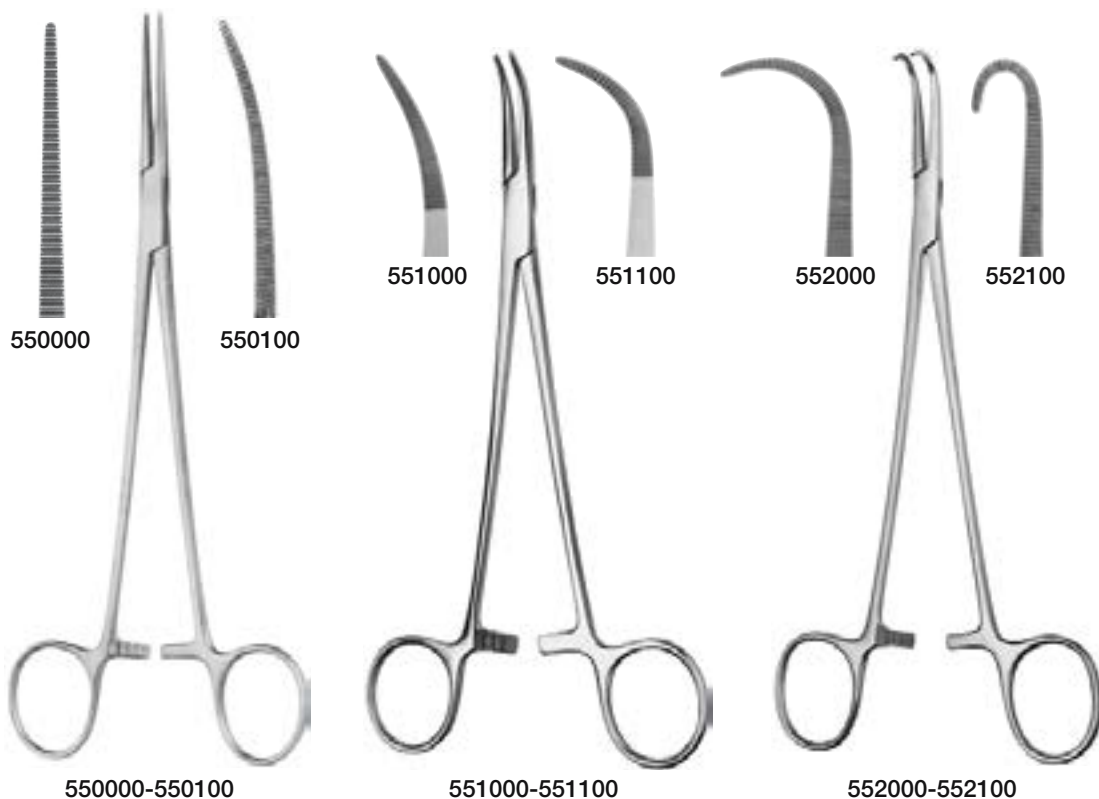
551520 BROPHY Tonsil Dressing Forceps, straight, length 20 cm

Instruments for Tonsillectomy

(cont.)



541400	LILLY Tonsil Scissors, curved, length 19 cm
541500	BOETTCHE Tonsil Scissors, curved, length 19 cm
541800	GOOD Tonsil Scissors, curved, length 19 cm
542018	METZENBAUM Tonsil Scissors, curved, length 18 cm
542020	same, length 20 cm
542218	same, l. 18 cm, with Tungsten Carbide Inserts

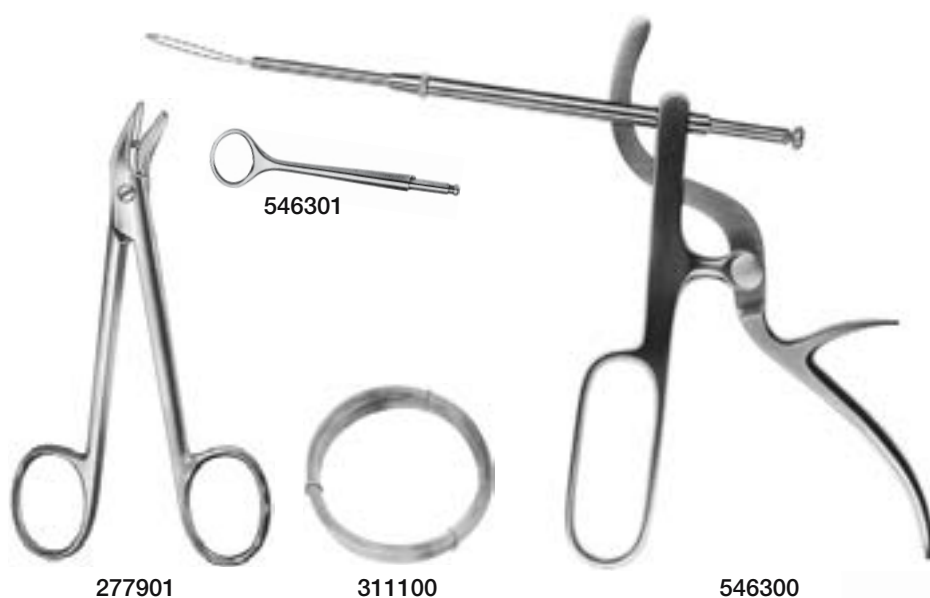


- 550000** HEISS-BIRKETT Tonsil Forceps, slender, length 20 cm, straight
- 550100** same, curved
- 551000** SCHNIDT Tonsil Forceps, length 19 cm, slender, slightly curved
- 551100** same, strong curved
- 552000** NEGUS Tonsil Forceps, length 19 cm, slender, large curve
- 552100** same, narrow curved
- 552218** MIKULICZ Forceps, slender, length 18 cm



Instruments for Tonsillectomy

(cont.)



277901
277903

311100

546300

546000 BRUENINGS Tonsil Snare, length 28 cm

546100 EVES Tonsil Snare with Bruenings-tip, length 27 cm, for use with closed and open tonsil wire loops

546200 Tonsil Wire Loops, stainless steel, closed, 0.4 mm Ø, length 50 mm, Pack of 100 pieces

546300 TYDING Tonsil Snare with straight tip

546301 VEDDER Tip for 546300

311100 Wire only, for use with 546300, 0.4 mm Ø, coil of 10 m

277901 Universal Wire Cutting Scissors, saw edge, l. 12 cm
277903 same, with Tungsten Carbide Inserts



546000

546100



546500



547100

546500 NAGER Tonsil Suture Needle, length 24 cm

547100 Knot Tier, fork shaped, blunt, length 21.5 cm

Instruments for Salivary Duct

543010
543011



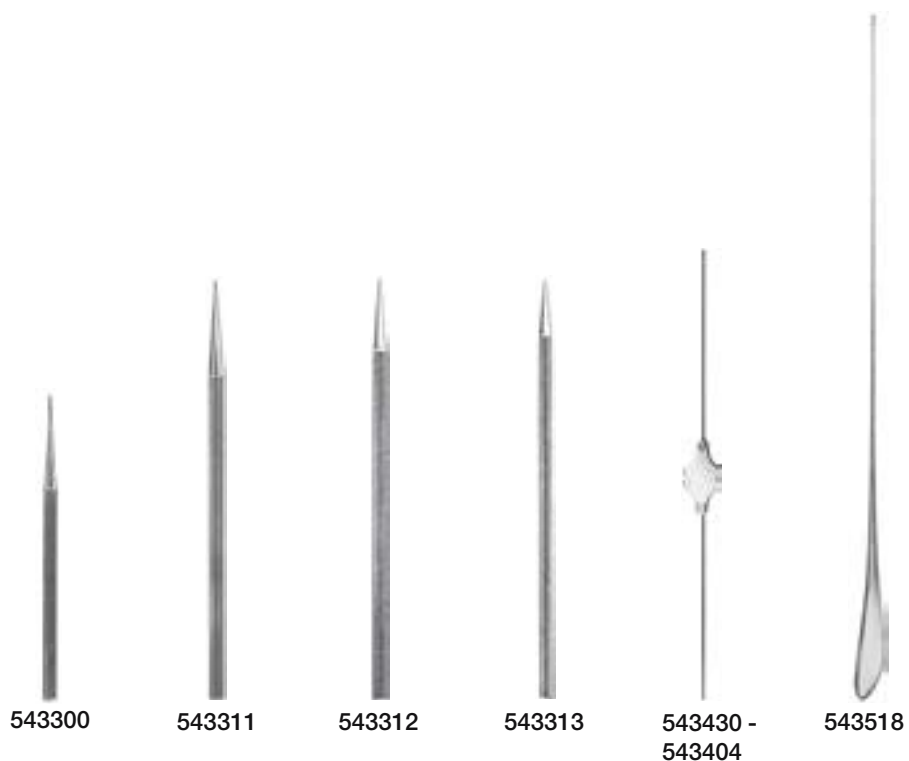
543010

543011

543105 -
543109

543200

- 543010** PERWITSCHKY Scissors for Salivary Duct, length 10 cm, ball ended
- 543011** same, sharp/sharp, without ball end
- 543105** Sialography Cannula, LUER-Lock, length 9.5 cm, 0.5 mm Ø
- 543107** same, 0.7 mm Ø
- 543109** same, 0.9 mm Ø
- 543200** JAENSCH Gland Catheter, transparent, set consisting of:
catheter, extension piece, metal stylet and perlon stylet,
sterile, 9 Fr, length 14 cm



- 543300** RUEDEMANN Dilatator for Salivary Duct,
for infants, length 8 cm
- 543311** WILDER Dilatator for Salivary Duct, very delicate, Ø 3 mm, length 11 cm, size 1
- 543312** same, size 2
- 543313** same, size 3
- 543430** BOWMAN Salivary Duct Probe, silver plated, size 0000/000
- 543400** same, size 00/0
- 543401** same, size 0/1
- 543402** same, size 1/2
- 543404** same, size 3/4
- 543406** same, size 5/6
- 543408** same, size 7/8
- 543518** SEIFFERT Salivary Duct Probe, extra delicate, silver, 18 cm
- 543519** Protection Tube for 543518, autoclavable (without illustration)

Endonasal Dacryocystorhinostomy

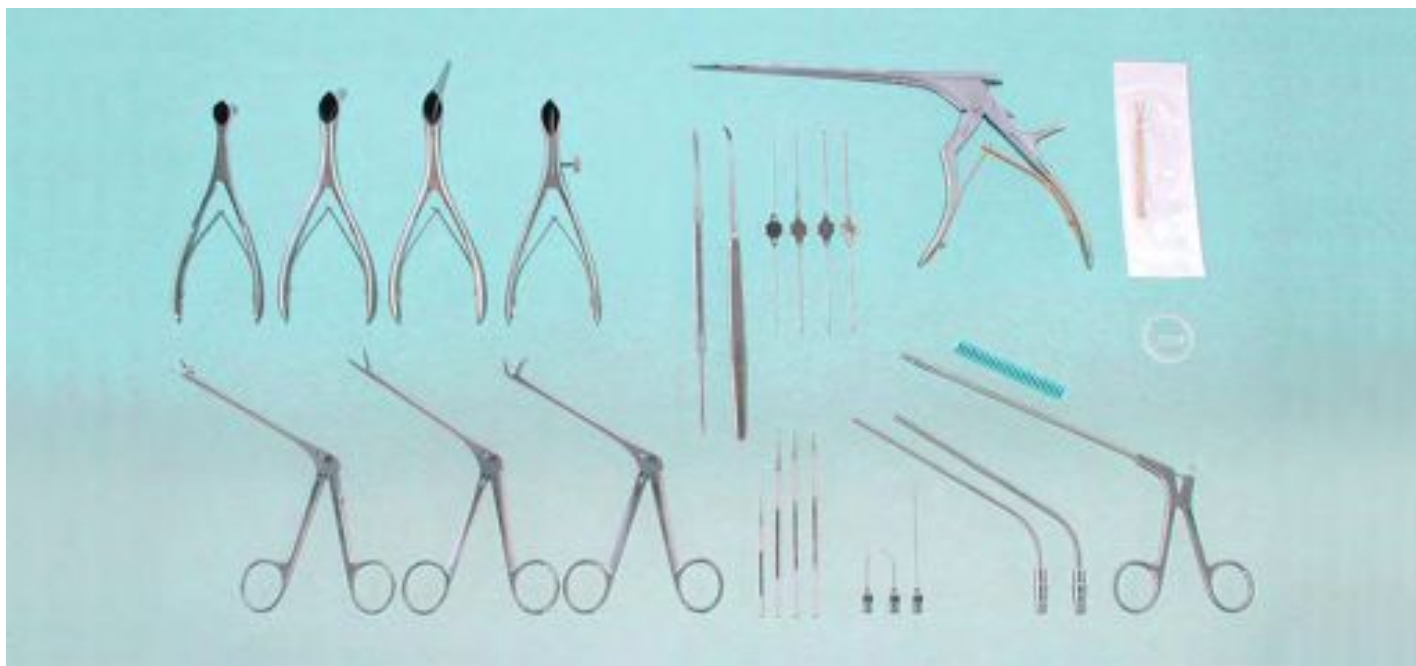
In addition to the nasolacrimal duct operation according to Toti carried out externally by ophthalmologists, endonasal nasolacrimal duct surgery has in the meantime established itself as a standard alternative therapy. Its recognised advantages are: a lower patient morbidity rate, shorter operation time, less strain on the external structures in the medial canthus. The aim is to achieve the 90% success rate of the Toti operations. These very good results can be achieved if a corresponding surgical training and advanced training has been obtained and suitable instruments are used. This means optimal visualisation (microscope and / or endoscope) and the use of special instruments customised for nasolacrimal duct surgery. The correct diagnosis, the correct execution of the procedure and a suitable post-op treatment are essential for a successful operation. This fact is unaltered by the use of lasers, routine use of place holders or the topical application of Mitomycin C.

In order to create the optimal prerequisites for a successful operation, we have compiled a compact set enabling all variations of endonasal nasolacrimal duct surgery to be performed. The number of instruments has been consciously kept low. Thanks to small modular extensions, almost the entire nasal and paranasal sinus surgery can be performed in the same procedure if necessary, e.g. in the event of simultaneous chronically polypus pansinusitis, inverted papilloma or simply an obstructed deviation of the septum.



Prof. Rainer Weber, MD (left)

PD Rainer Keerl, MD (right)



BASIC SET „LACRIMAL DUCT SURGERY“

- 143001** HARTMANN Nasal Speculum, length 13 cm
- 142255** KILLIAN-STRUYCKEN Nasal Speculum, blade 55 mm
- 142290** same, blade 90 mm
- 400002** COTTLE Septum Speculum, length 13.5 cm, blade 55 mm
- 315000** FREER Elevator, double-end, length 20 cm
- 518301** Sickle Knife, length 19 cm, pointed
- 543430** BOWMAN Probe, silver plated, size 0000/000
- 543400** same, size 00/0
- 543402** same, size 1/2
- 543404** same, size 3/4
- 512922** FS-KERRISON Punch, bite 2 mm, 40° up-biting, working length 18 cm, detachable
- 543260** Salivary Duct Stent, Probe and Place-holder, universal size (Probe 0.9 mm Ø, Stent 0.6 mm Ø), sterile packed
- 326810** MORIYAMA Throughcutting Forceps, working length 11.5 cm, size 10, straight
- 330002** BLAKESLEY Nasal Forceps, straight, size 2
- 330102** same, 45° upcurved
- 543300** RUEDEMANN Dilatator for babies
- 543311** WILDER Dilatator, Ø 3 mm, size 1
- 543312** same, size 2
- 543313** same, size 3
- 543252** Salivary Duct Cannula, Luer-Lock, conical, stainless steel, straight
- 543250** same, angled
- 543166** BANGERTER Salivary Duct Probe Cannula, straight, 60 x 0.6 mm, stainless steel
- 136530** Suction Tube, angled, Luer, Ø 3 mm
- 136540** same, Ø 4 mm

Lacrimal Duct Complementary Sets



LACRIMAL DUCT COMPLEMENTARY SET „SEPTUM“

- 276614** JOSEPH Scissors, length 14.5 cm, curved
- 213015** CRILE-WOOD Needle Holder, straight, length 15 cm, Tungsten Carbide
- 209014** Dressing Forceps, straight, length 14.5 cm
- 209114** Tissue Forceps, 1 x 2 teeth, straight, 14.5 cm
- 132316** JANSEN Nasal Dressing Forceps, bayonet, length 16 cm
- 326000** HEYMANN Nasal Scissors, smooth blades, straight, working length 9.5 cm
- 326200** Nasal Scissors, serrated blades, working length 13 cm, straight

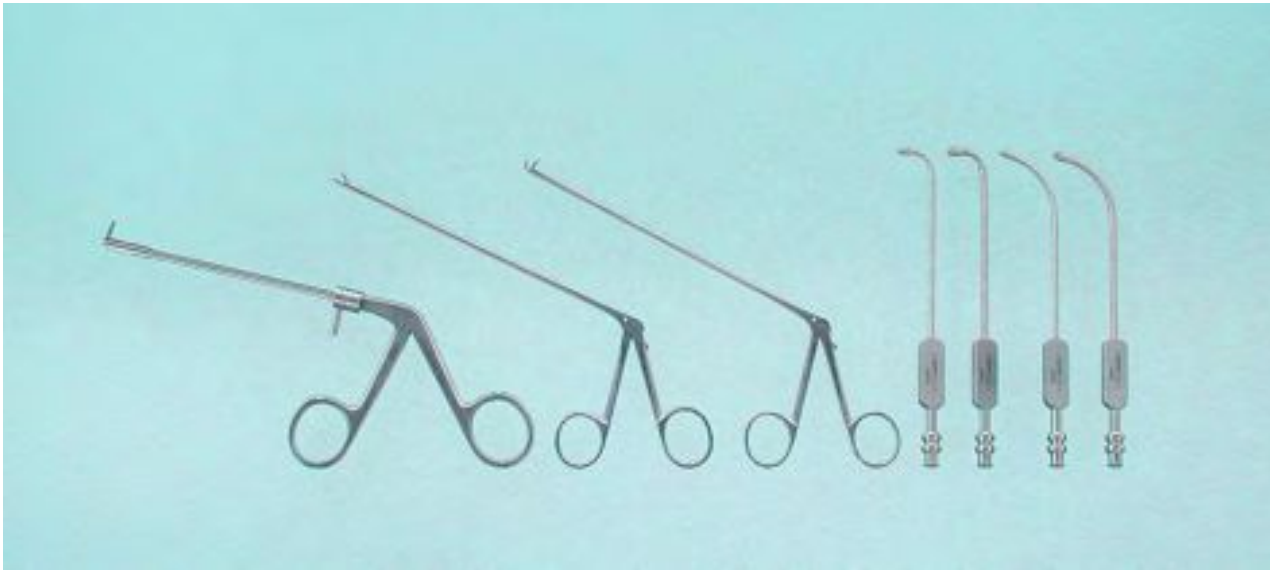


Acute left Dacryocystitis



3 weeks after left endonasal DCR.
Insertion of a silicone splint, fixation with two clips.
Oedema, granulation and secretion can be seen as normal at this stage.

- 824076** CD-ROM
„The Interdisciplinary Surgery
of the Lacrimal Drainage System“
R.Keerl, R.Weber



**LACRIMAL DUCT COMPLEMENTARY SET
„PARANASAL SINUSES“**

- 335025** „Rotating Backbiter“ Antrum Punch,
bite 2.5 mm
- 338416** DRAF Ethmoid Forceps,
working length 16 cm, straight
- 338516** same, 60° upcurved
- 149612** v.EICKEN Antrum Cannula,
short curved, Ø 2.5 mm
- 149613** same, Ø 3 mm
- 149602** same, long curved, Ø 2.5 mm
- 149603** same, Ø 3 mm



6 months after endonasal DCR right side.
Endoscopic view of open
non-irritated saccus lacrimalis.



12 months after right endonasal DCR with partial ethmoidectomy.
Endoscopic view of open saccus lacrimalis
unhindered drain of fluorescein solution applied on conjunctiva.

- 824076** CD-ROM
„The Interdisciplinary Surgery
of the Lacrimal Drainage System“
R.Keerl, R.Weber

Laryngeal Instruments

Fig. 00	153620	153920	154020
Fig. 0	153600	153900	154000
Fig. 1	153601	153901	154001
Fig. 2	153602	153902	154002
Fig. 3	153603	153903	154003
Fig. 4	153604	153904	154004
Fig. 5	153605	153905	154005
Fig. 6	153606	153906	154006
Fig. 7	153607	153907	154007
Fig. 8	153608	153908	154008
Fig. 9	153609	153909	154009
Fig. 10	153610	153910	154010



153600 - 153620 Laryngeal Mirror, stainless steel, shaft with thread, for use with hexagonal handle 153700, autoclavable, sizes 00 - 10



153700 Hexagonal Handle only, length 7.5 cm, for laryngeal mirrors 153600 - 153620



153900 - 153920 Laryngeal Mirror with fixed handle, stainless steel, autoclavable, sizes 00 - 10

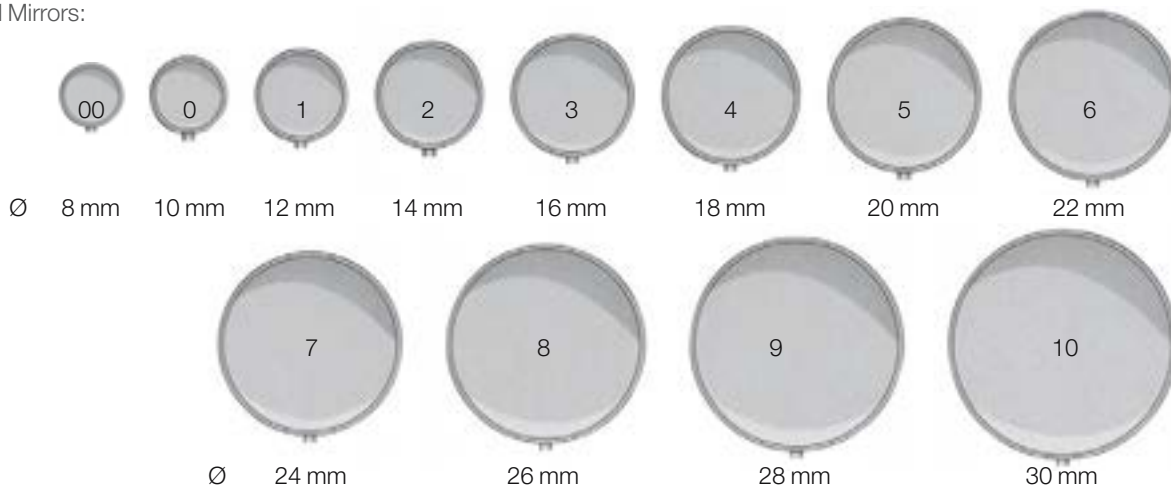


154000 - 154020 Laryngeal Mirror without handle, standard model, shaft without thread, stainless steel, autoclavable, sizes 00 - 10



154100 Handle for Laryngeal Mirrors without thread, with set screw, length 10.5 cm

Full sizes of Laryngeal Mirrors:





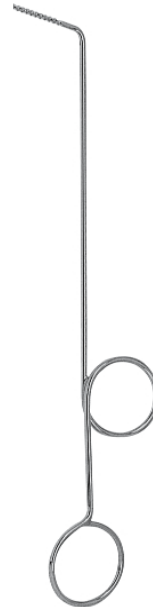
111205



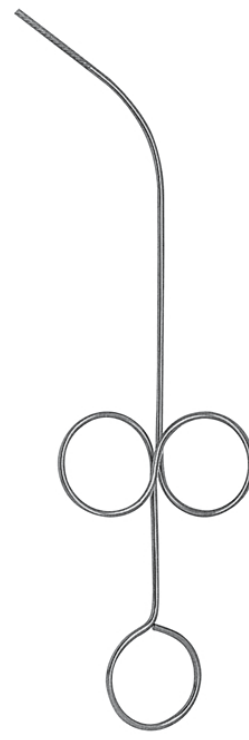
111305



111400



156100

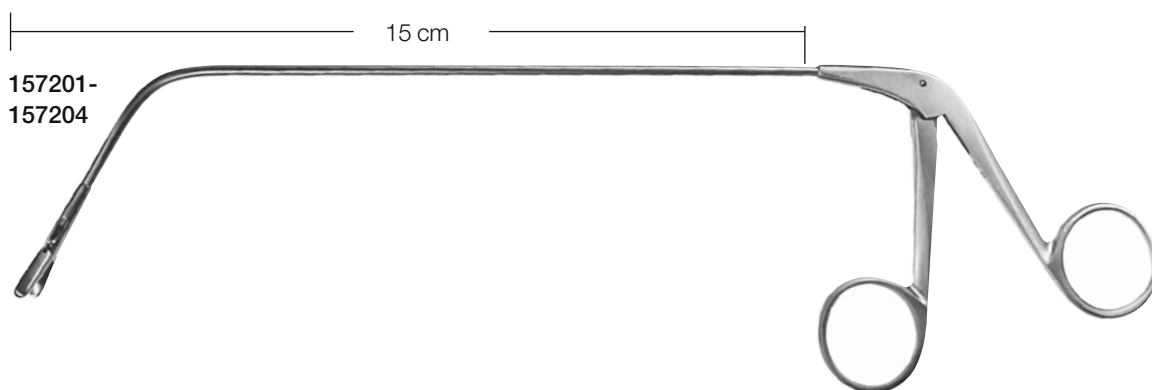


156000

- 111205** Laryngeal Syringe, LUER-Lock, glass barrel replaceable, 5 ml
- 111305** Spare Cylinder, glass, 5 ml
- 111400** Laryngeal Cannula, curved, length 13 cm, for 111202 - 111210
- 156000** FEIN Laryngeal Cotton Applicator, length 29 cm
- 156100** PELTESON Laryngeal Applicator, length 23.5 cm

Laryngeal Instruments

(cont.)



- 157201** Laryngeal Biopsy Forceps, tube shaft model,
oval cupped spoon, vertical opening
157202 same, horizontal opening



- 157203** Laryngeal Alligator Forceps, for foreign bodies,
serrated, vertical opening
157204 same, horizontal opening



- 157400** Laryngeal Biopsy Forceps, with round cupped jaws 4 mm Ø,
working length 17 cm, straight
157401 same, curved upwards
157402 same, curved right
157403 same, curved left

658520



658520 Extension Cannula, curved, length 20 cm,
for use with Universal Handle 658101

658101 Universal Handle for use with
Extension Cannula 658520



658101



660001 FRAENKEL Forceps Tip, serrated



660401 SEIFFERT Forceps Tip, Alligator jaws



660801 FRAENKEL Forceps Tip,
sharp oval cupped jaws



660901 SCHEINMANN Forceps Tip, oval cups,
lateral curved



661613 BRUENINGS Forceps Tip, round cupped jaws,
3 mm Ø, both jaws movable



662801 KRAUSE Punch Forceps Tip,
through-cutting, oval, size 1



662901 CORDES Punch Forceps Tip,
through-cutting, size 1

Instruments for Tracheostomy

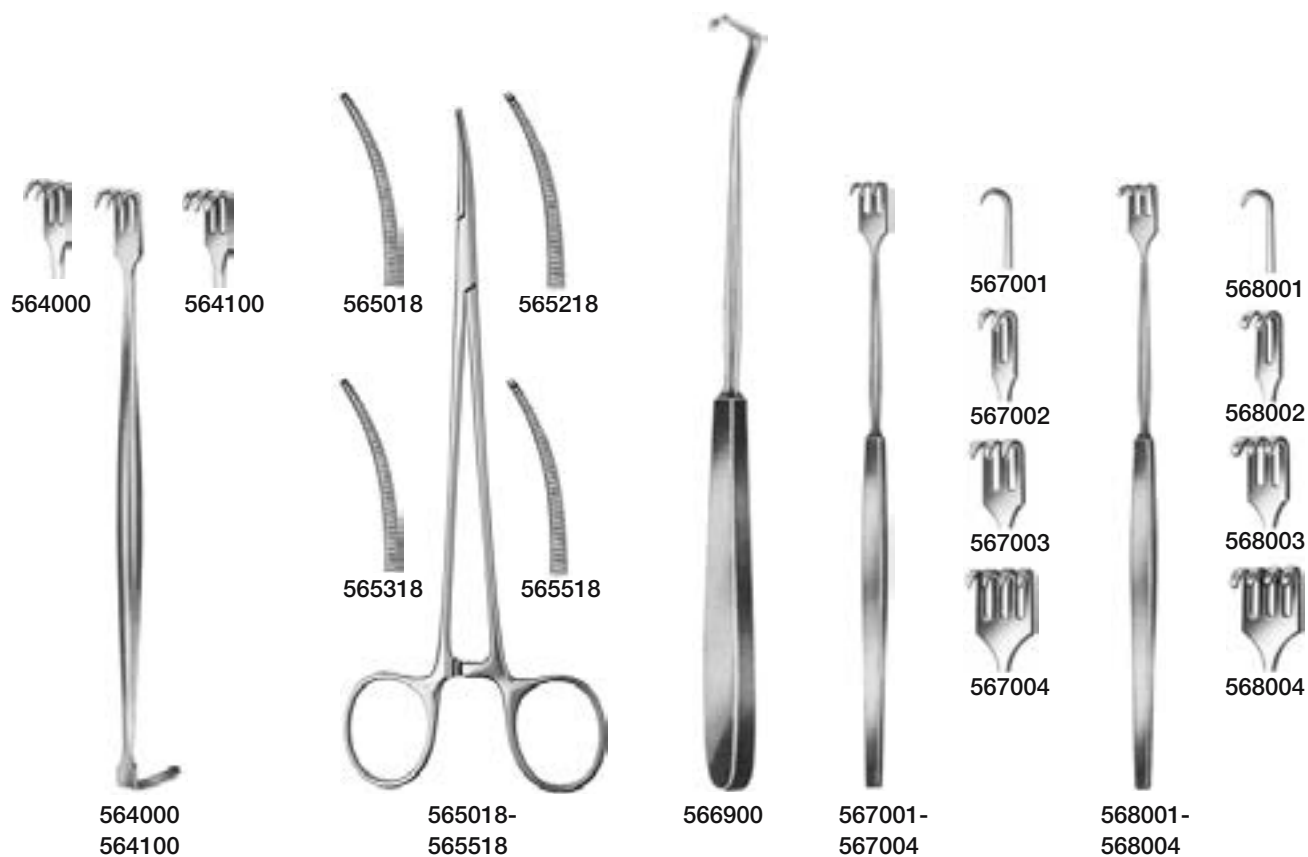


563000

563100

563000 LABORDE Trachea Dilator, three-bladed, length 14 cm

563100 TROUSSEAU Trachea Dilator, two-bladed, length 14 cm



- 564000** SENN-MILLER Retractor, sharp, 16 cm
564100 same, blunt
- 565018** Special Clamp, slender, finest model for parotis and similar operations, length 18 cm, straight, serrated
565218 same, straight, serrated with 1:2 teeth
565318 same, curved, serrated
565518 same, curved, serrated, with 1:2 teeth
- 566900** SCHOENBORN Thymus Retractor, length 21 cm
- 567001** Trachea Retractor, sharp, length 16 cm, 1 prong
567002 same, 2 prongs
567003 same, 3 prongs
567004 same, 4 prongs
568001 same, blunt, length 16 cm, 1 prong
568002 same, 2 prongs
568003 same, 3 prongs
568004 same, 4 prongs

LARYNGO-PHARYNGOSCOPE

FK Laryngo-Pharyngoscope	LAR-200
	LAR-205
	LAR-210

FK-WO TORS

Laryngo Pharyngoscope Retractor	LAR-220

MICRO LARYNGOSCOPY

Operating Laryngoscopes, Teeth Protectors.....	LAR-100

Laryngeal Instruments for Endolaryngeal Microsurgery	LAR-105
	LAR-110
	LAR-115
	LAR-120
	LAR-125
	LAR-130

Storing and Sterilization	LAR-140

MICRO SURGERY

Transoral CO ₂ -Laser Micro Surgery in the Upper Aerodigestive Tract	LAR-310

CO ₂ -Laser Micro Laryngoscopy	LAR-315

CO ₂ -Laser Diverticuloscopy and Tracheoscopy.....	LAR-320

BRONCHO-ESOPHAGOSCOPY

Laryngo-Broncho- Esophagoscopic Forceps	LAR-410

Broncho- Esophagoscopic Forceps	LAR-415

Accessories for Bronchoscopy	LAR-420

FK Laryngo- Pharyngoscope



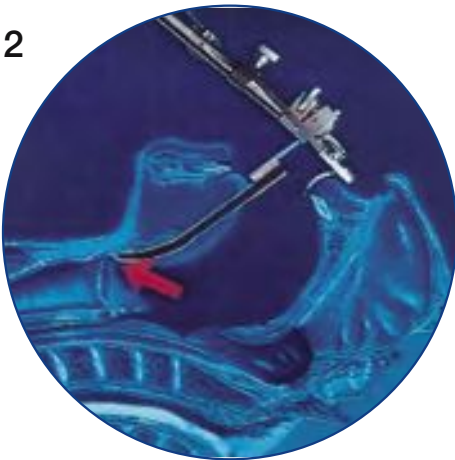
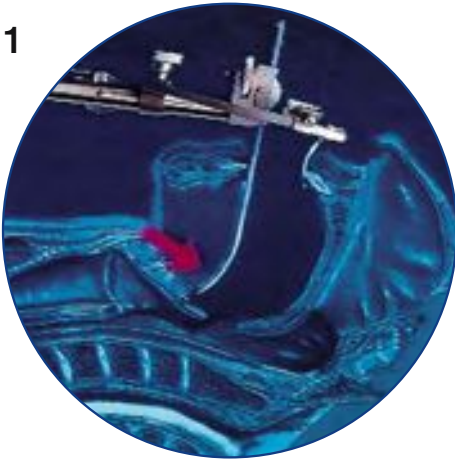
The development of the FK Laryngo- Pharyngoscope offers a considerable relief in the day-to-day practice of lasersurgery and conventional micro surgery of the upper aerodigestive tract.

- ✓ Excellent view of the anatomy as the situs is largely exposed.
- ✓ The working area is not restricted anymore through the abandonment of the tube system.
- ✓ Gentle teeth protection with wider distribution of pressure over the upper jaw.

- ✓ Excellent illumination of the operational area due to the fact that the illumination fibre runs along the blade down to the situs.
- ✓ Increased freedom of hands due to the presence of additional instruments which can be fixed to the outer frame.
- ✓ With the choice of different blades and the same basic framework, different anatomical regions can be focused upon.
- ✓ By means of adjustable angles of the device, it is possible to use the system without strong reclination of the head.

Illustrations:

- (1) Exposure of oropharynx
- (2) Exposure of larynx
- (3) Exposure of hypopharynx



Developed by Ludwig-Maximilians-University Munich
 Prof. Barbara Wollenberg, MD
 Prof. Ernst Kastenbauer, MD

FK Laryngo- Pharyngoscope

(cont.)



640100

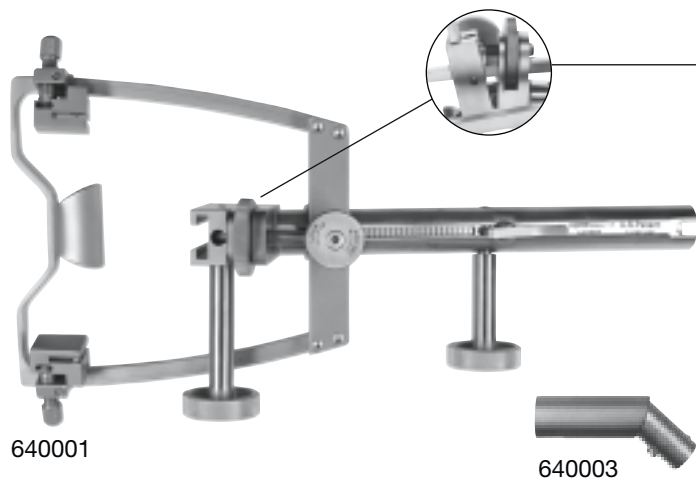
FK LARYNGO-PHARYNGOSCOPE

Complete Set for Epi-, Oro-, Hypopharynx and Laryngoscopy, consisting of:

- 1 Basic frame with elongation (640001 + 640003)
- 1 Fiber-Optic Light carrier with connection (640004 + 640008)
- 1 Tongue Blade, curved, for all application (640013)
- 1 Tongue Blade, curved, for access to the right side of tongue base (640016)
- 1 Tongue Blade, curved, for access to the left side of tongue base (640017)
- 1 WOLLENBERG Laryngeal Blade, concave, curved (640019)
- 1 SIMON Mandible Blade (640020)
- 2 Cheek Retractors, flexible, short (640111)
- 1 Adjustable holder for smoke suction tube, tumour grasping forceps and telescopes 4 mm Ø (640021)
- 1 Smoke Evacuation Tube, (640025)

FK CD-ROM

640035 FK CD-ROM (introduction of device and operation sequences)



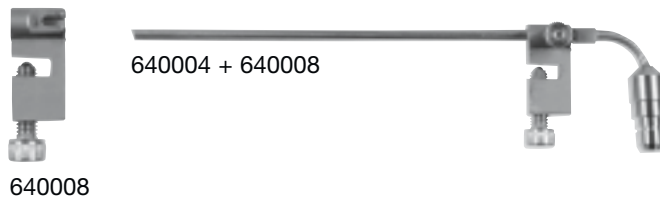
- Better overview in the larynx through vertical turning of the tongue blade

640001 FK Basic Frame, improved model, with elongation 640003 for chest support

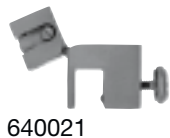
640003 Attachment only, for connection of frame to chest support and for use of chest support on a table



640004 Fiber Optic Light Carrier only, fitting to FK Laryngo-Pharyngoscope, connection to Explorent/Storz/Wolf



640008 Support only, for Fiber Optic Light Carrier 640004



640021 Movable Holding Device, fitting to smoke suction tube, tumour grasping forceps and telescopes 4 mm Ø



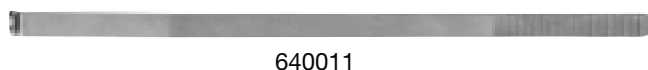
640025 Smoke Evacuation Tube only, 4 mm Ø, stainless steel



640045 FK Self Retaining Tumour Grasping Forceps, flexible, with 3 grasping teeth, working length 23 cm, shaft 4 mm Ø

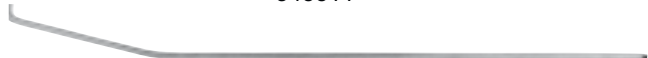
FK Laryngo- Pharyngoscope

(cont.)



640011

640011 Cheek Retractor, flexible,
length 22.5 cm



640111

640111 same, length 13.5 cm



640111



640013

640013 Tongue Blade, curved,
length 22 cm



640013



640016 - 640017

640016 Tongue Blade, curved,
length 22 cm, for access to the
right side of tongue base
(for tumours of the base of tongue, etc.)



640016 right



640017 left

640017 same, for access to the left side



640019

640019 WOLLENBERG Laryngeal Blade,
concave, working length 17 cm



640020

640020 SIMON Mandible Blade,
total length 14 cm, for surgery of tumours
of the apex and the surface of the tongue



640050

640050 WOLLENBERG Diverticuloscope Blade,
concave, working length 22 cm

- 630400 LaryngoscopeHolder and Chest Support with rod
for adults, for use with the FK-Laryngo-Pharyngoscope
and standard laryngoscopes.
Ring-Ø: 9.5 cm, rod length 34 cm
- 630500 Rod for children, ring Ø: 9.5 cm,
length 24 cm



630400

FK-WO TORS

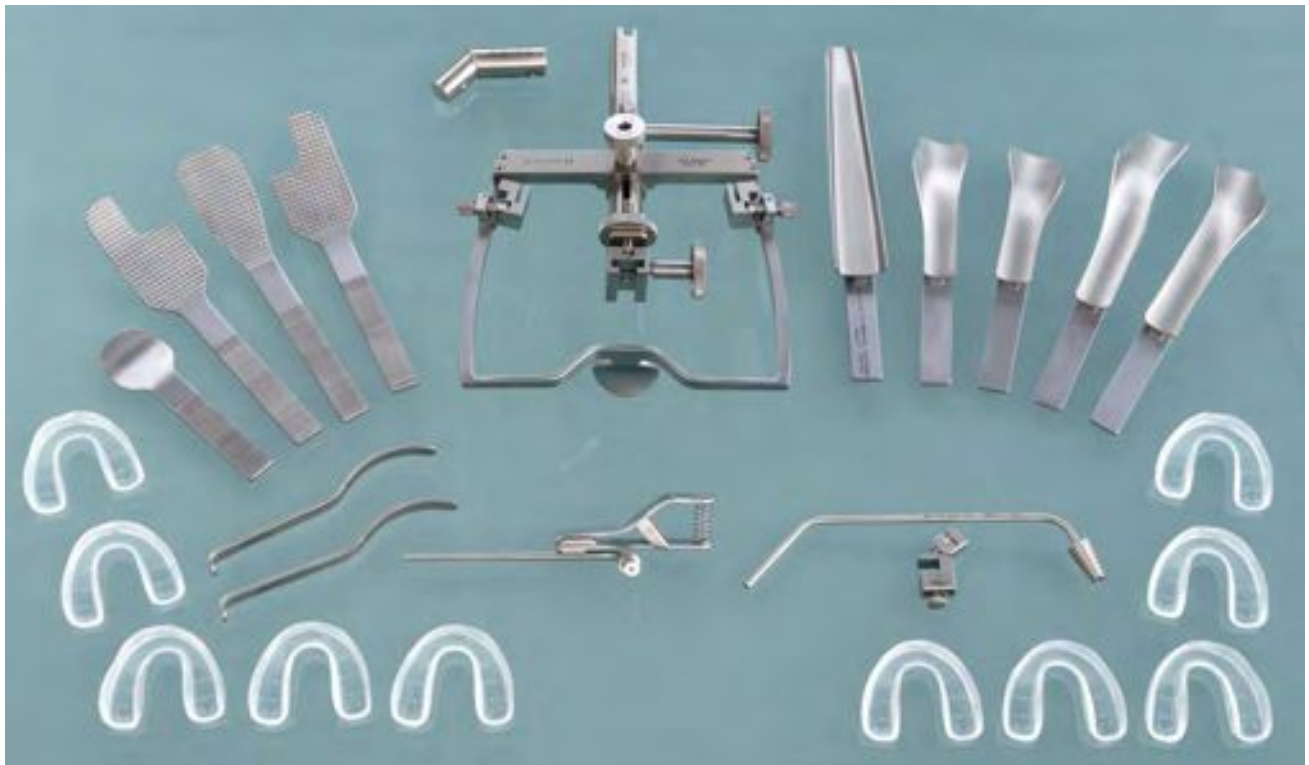
Laryngo Pharyngoscope Retractor



Applications:

- ✓ Transoral robotic surgery
- ✓ Laser surgery
- ✓ Micro-laryngeal surgery

645000 FK-WO TORS laryngo pharyngoscope retractor,
complete set



Delivery of 645000 includes:

- 645001 FK-WO TORS basic frame, 1 pc., with adapter 640003
- 640003 Adapter, for FK-WO TORS basic frame
- 645030 Weinstein-O'Malley TORS blade, small, left, 1 pc.
- 645031 Weinstein-O'Malley TORS blade, small, right, 1 pc.
- 645032 Weinstein-O'Malley TORS blade, large, left, 1 pc.
- 645033 Weinstein-O'Malley TORS blade, large, right, 1 pc.
- 645013 Tongue blade, curved, 1 pc.
- 645016 Tongue blade, curved, right side open, 1 pc.
- 645017 Tongue blade, curved, left side open, 1 pc.
- 645019 Wollenberg laryngeal blade, 17 cm, concave, 1 pc.
- 645020 Simon mandible blade, 11 cm, 1 pc.
- 645006 Wollenberg light clip, with lateral cable connection, 1 pc.
- 645011 Cheek retractor, curved, 2 pcs.
- 640021 Adapter, for tumor grasping forceps or suction tube, 1 pc.
- 645025 Suction tube, 4 x 170 mm, for smoke
- 996050 Teeth protector, latex free, not autoclavable, 10 pcs.
- 806450 Container, for FK-WO TORS retractor, 1 pc.

Operating Laryngoscopes, Teeth Protectors



630001



630002



630003



630004
630005



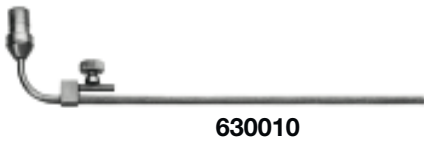
630006



630007

- 630001 Operating Laryngoscope, 18 cm, large, for adults
- 630002 same, medium, 18 cm (most commonly used Laryngoscope)
- 630003 same, small, 18 cm (for difficult anatomical circumstances)
- 630004 same, anterior commissure, 18 cm
- 630005 same, 22 cm (esp. for long neck)
- 630006 same, 15 cm, for children
- 630007 same, 13 cm, for small children

- 630400 Laryngoscope Holder and Chest Support for adults, ring 9.5 cm Ø, rod 34 cm, for use with Laryngoscopes 630001-630007
- 630500 Rod for children, for use with 630400, rod 24 cm (ring 9.5 cm Ø)
- 630401 Rubber Ring only for 630400 and 630500



630010

630010 Fibre Optic Light Carrier,
for use with Laryngoscopes 630001 - 630005



630011

630011 same, for use with Laryngoscopes 630006-630007



996000

996000 Camo Dental Protector, each packed



996050

996050 Teeth Protector Plastic. Can also be used as inlet
for Metal Teeth Protector (non autoclavable).



996060

996060 ENDORAGARD Teeth Protector, sterile,
package of 1 pair



996100-
996103

996100 Teeth Protector, metal, size 0, for children

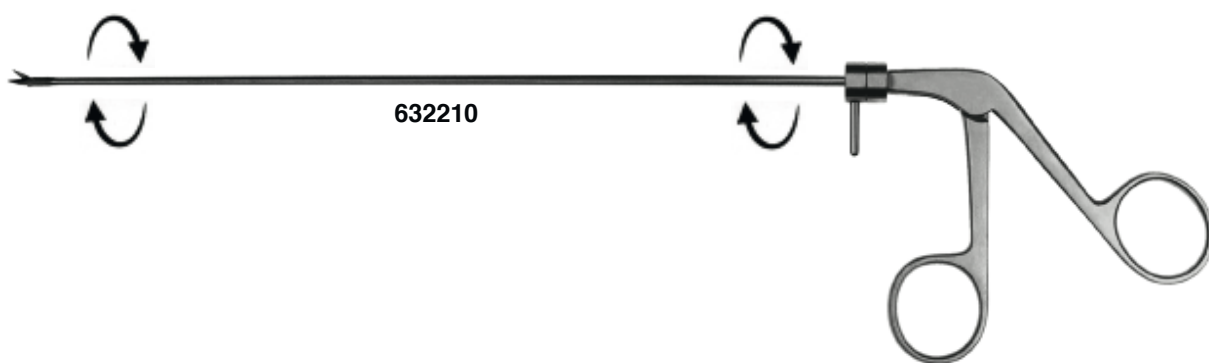
996101 same, size 1

996102 same, size 2

996103 same, size 3

Laryngeal Instruments

for Endolaryngeal Microsurgery



✓ Full 360° rotation through finger post facilitates

✓ Double action jaws

632203 - 632210
Rotating Laryngeal Instruments,
finger post facilitates, 360° rotating,
working length 22 cm



632203 Cutting Forceps with round cupped jaws,
 2 mm Ø, double action jaws, curved



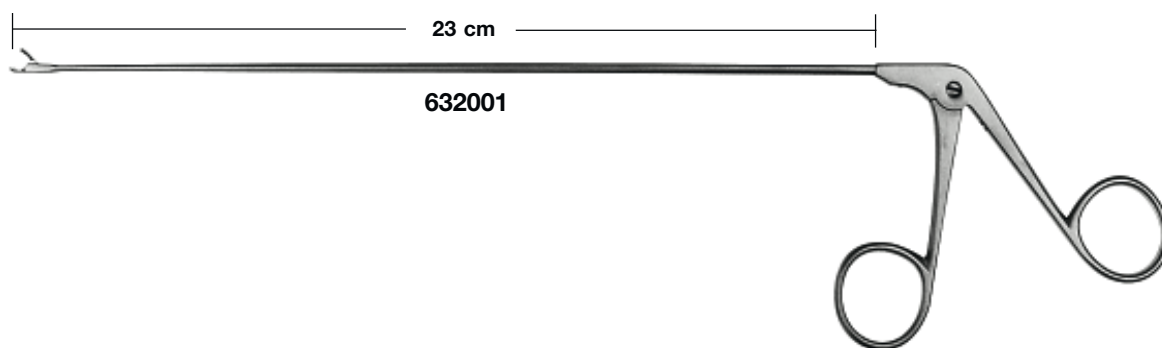
632206 Alligator Forceps, serrated jaws,
 double action jaws, curved



632207 same, straight with triangular jaws,
 double action, curved upwards



632210 Scissors, curved



✓ Conical sheath for high stability and optimal view

632001 - 632152

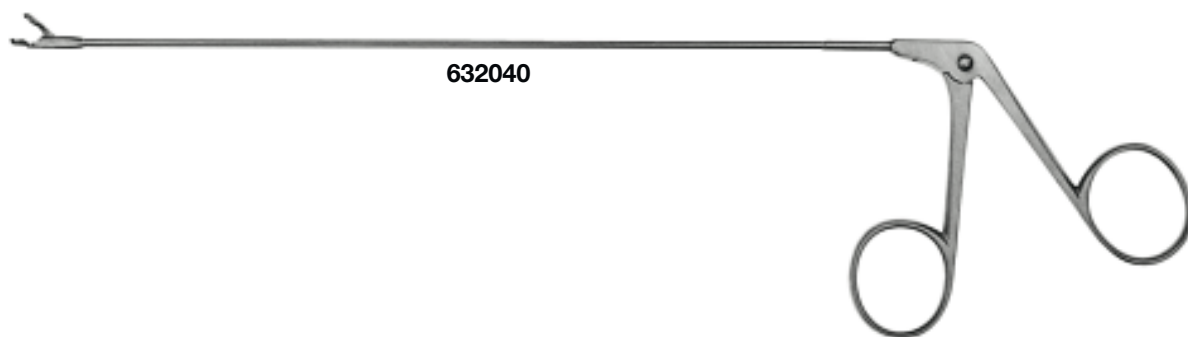
Cutting Forceps with 2 mm cupped jaws, standard pattern, conical sheath, working length 23 cm



632001	Cutting Forceps with round cupped jaws, 2 mm Ø, straight
632002	same, curved upwards
632003	same, curved right
632004	same, curved left
632050	same, curved upwards right
632051	same, curved upwards left
632052	same, straight, horizontal opening, curved right
632053	same, straight, horizontal opening, curved left
632150	Cutting Forceps with long oval cupped jaws, curved upwards
632151	same, upcurved, opening right
632152	same, upcurved, opening left

Laryngeal Instruments

for Endolaryngeal Microsurgery (cont.)



632040



Conical sheath for high stability and optimal view

632040 - 632046

Cutting Forceps with cupped jaws, heavy pattern, conical sheath, working length 23 cm



632040 Forceps with oval cupped jaws 3 x 5 mm, straight



632041 same, with round cupped jaws 4 mm Ø, straight



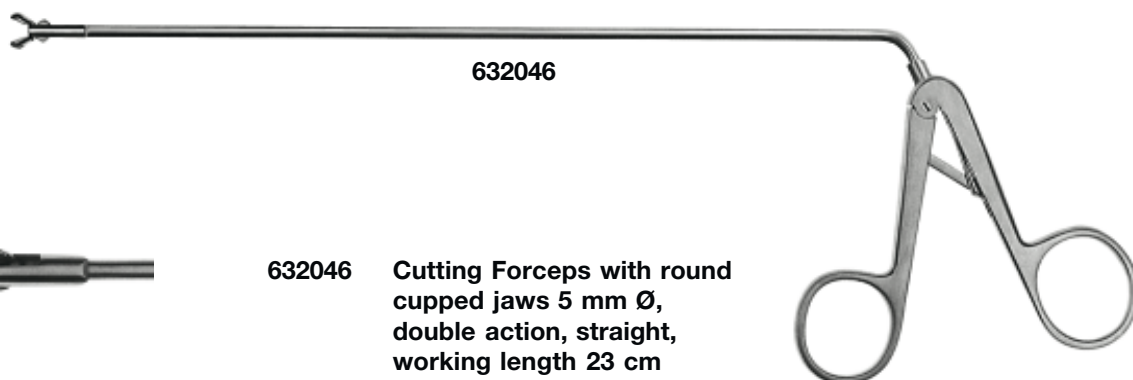
632042 same, curved upwards



632043 same, curved right



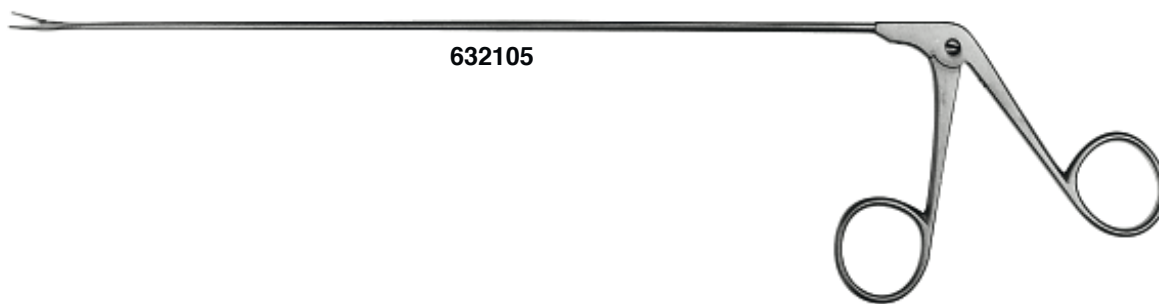
632044 same, curved left



632046



632046 Cutting Forceps with round cupped jaws 5 mm Ø, double action, straight, working length 23 cm



✓ Conical sheath for high stability and optimal view

632005 - 632154
Grasping Forceps, standard model,
conical sheath, working length 23 cm

	632105	Artery Forceps with ratchet, serrated, straight
	632005	Alligator Forceps, serrated, straight
	632006	same, curved right
	632007	same, curved left
	632215	same, straight, horizontal opening
	632054	same, curved up
	632154	same, curved up, horizontal opening
	632055	Forceps with triangular jaws, curved up, opening right
	632056	same, curved up, opening left
	632058	same, straight
	632059	same, curved up
	632068	ARNOLD Vocal Cord Holding Forceps, triangular jaws, for right side
	632069	same, for left side

Laryngeal Instruments

for Endolaryngeal Microsurgery (cont.)



Conical sheath for high stability and optimal view

632008 - 632057

**Laryngeal Scissors, standard model,
conical sheath, working length 23 cm**



632008	Scissors, straight
632009	same, curved up 45°
632115	same, curved up 15°
632010	same, curved right
632011	same, curved left
632057	same, straight, horizontal cutting

632080 - 632083

**Miniature Scissors, very delicate, conical sheath,
working length 23 cm**



632080	Miniature Scissors, straight
632081	same, curved up 45°
632082	same, curved right
632083	same, curved left



✓ Conical sheath for high stability and optimal view

632060 - 632065

Miniature Cutting Forceps, with cupped jaws 1 mm Ø, very delicate, conical sheath, working length 23 cm



632060 Miniature Forceps with round cupped jaws, 1 mm Ø, straight



632061 same, curved upwards



632062 same, curved right



632063 same, curved left



632064 same, curved upwards right



632065 same, curved upwards left

632070 - 632077

Miniature Forceps, very delicate, conical sheath, working length 23 cm



632070 Miniature Grasping Forceps, serrated, straight



632071 same, curved upwards



632072 same, curved right



632073 same, curved left



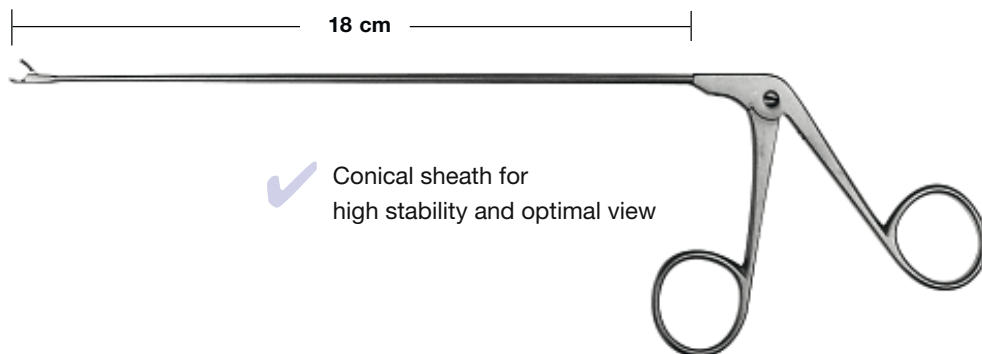
632076 same, with triangular jaws, curved right



632077 same, curved left

Laryngeal Instruments

for Endolaryngeal Microsurgery (cont.)



631902 - 631933
Pediatric Laryngeal Forceps,
conical sheath, working length 18 cm



631902 Cutting Forceps, cupped jaws 2 mm Ø, straight



631903 same, curved up



631904 same, 3 mm Ø, straight



631905 same, curved up



631906 same, 1 mm Ø, straight



631907 same, curved up



631910 Alligator Forceps, serrated, straight



631920 Scissors, straight



631921 same, upcurved 45°



631922 same, curved right



631923 same, curved left



631930 Cutting Forceps, cupped jaws 4mm Ø, horizontal opening, distal end malleable



631932 Suction Tube, ball end, outer-Ø: 2 mm working length 20 cm



631933 same, outer-Ø: 3 mm



Conical sheath for high stability and optimal view



Optimum entrance in the anterior commissure through 10° upcurved distal end



632101 - 632111

Laryngeal Instruments, distal end angular for anterior commissure, with conical sheath, working length 23 cm



632101 Cutting Forceps with round cupped jaws, 2 mm Ø, straight



632102 same, curved upwards



632103 same, curved right



632104 same, curved left



632108 Scissors, straight



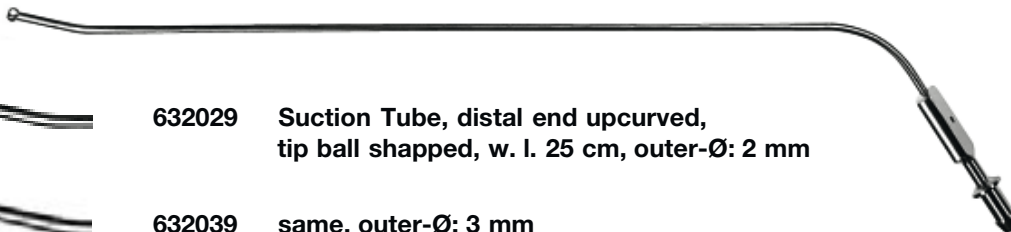
632109 same, upcurved 45°



632110 same, curved right



632111 same, curved left



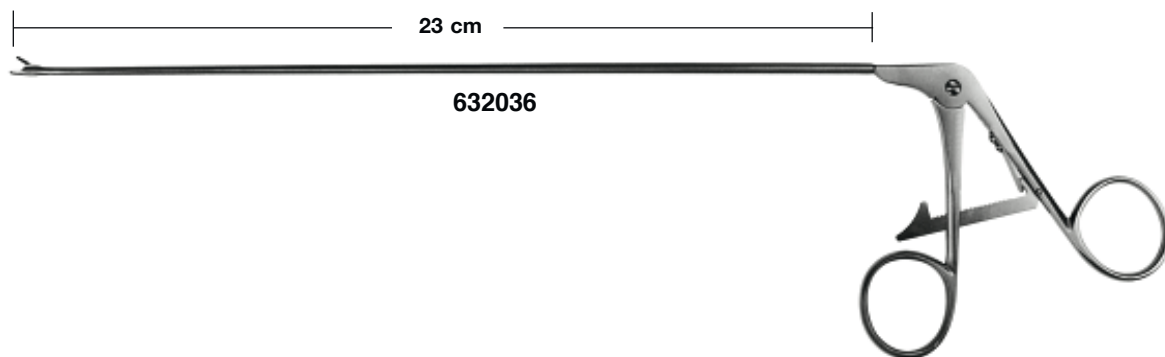
632029 Suction Tube, distal end upcurved, tip ball shaped, w. l. 25 cm, outer-Ø: 2 mm



632039 same, outer-Ø: 3 mm

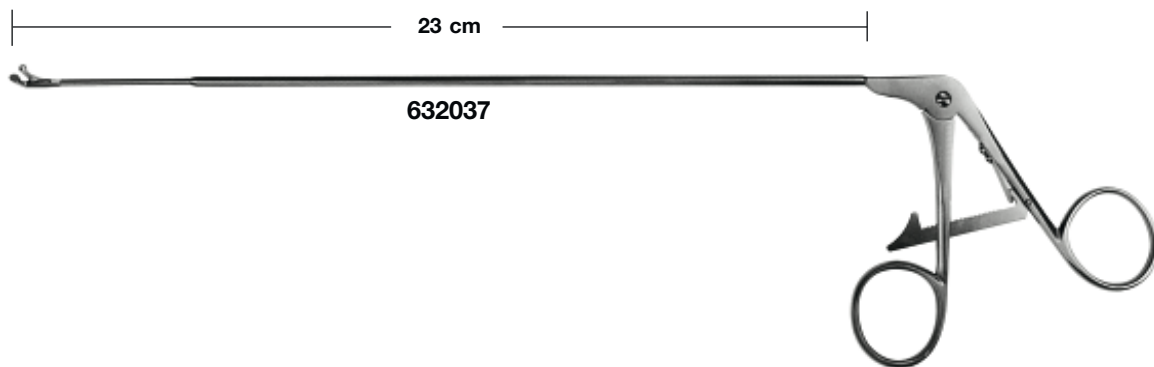
Laryngeal Instruments

for Endolaryngeal Microsurgery (cont.)



Conical sheath for high stability and optimal view

632036 Needle Holder with ratchet, conical sheath, working length 23 cm



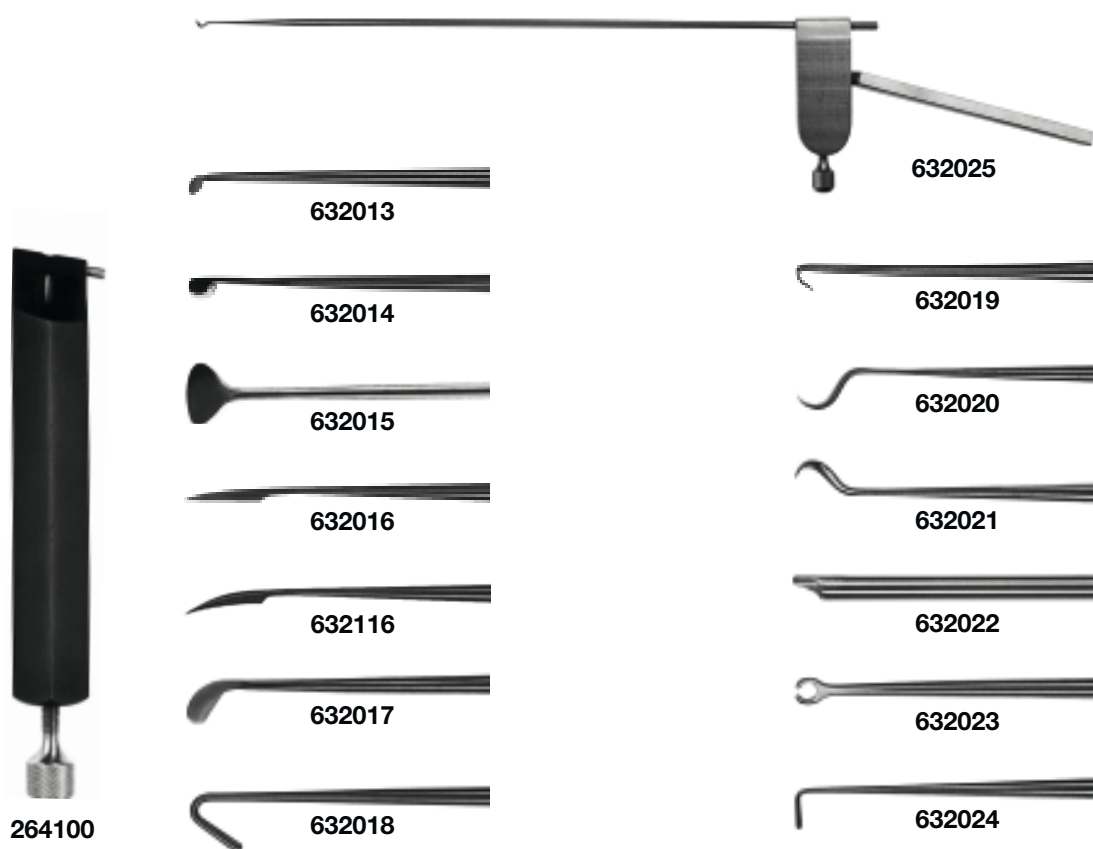
632037 Needle Holder for Endo-Laryngoscopy, delicate, with teathed rounded jaws, 1.6 mm Ø, upcurved, self retaining, with ratchet, working length 23 cm



632038 Atraumatic Vocal Cord Retractor, self retaining, with ratchet, working length 23 cm

Laryngeal Instruments

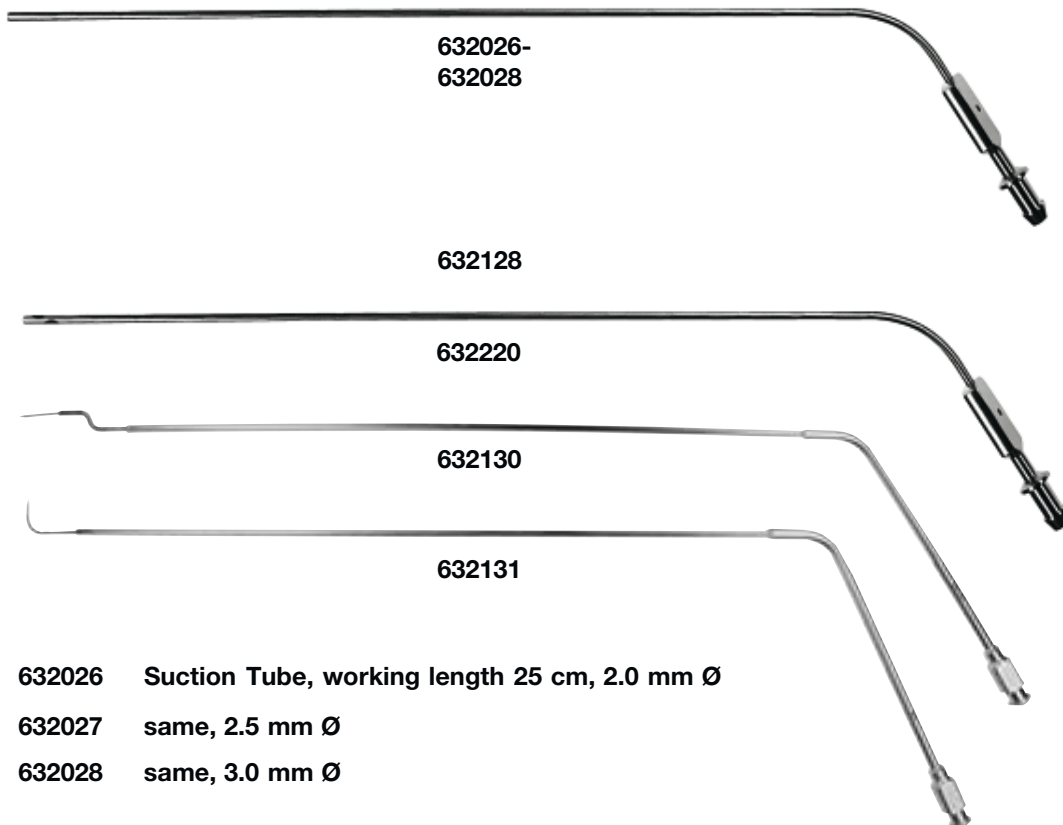
for Endolaryngeal Microsurgery (cont.)



632013 - 632022

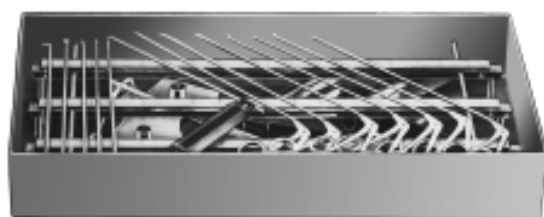
Laryngeal Instruments for Microsurgery, working length 23 cm

632013	Knife, round, 2.5 mm Ø, angled 45 °	632020	Needle, curved to right
632014	Knife, round, vertical cutting	632021	Needle, curved to left
632015	Knife, oval, straight	632022	Elevator with suction channel
632016	Knife, straight cutting	632023	Knot Tier
632116	same, sickle shaped, curved	632024	Hook with probe end, angled 90°
632017	Knife, golfstick shaped	632025	Handle for use with 632013 - 632116
632018	Hook, blunt	264100	HEERMANN Handle, black finish, for use with 632013 - 632116
632019	Hook, sharp		



- 632026** Suction Tube, working length 25 cm, 2.0 mm Ø
- 632027** same, 2.5 mm Ø
- 632028** same, 3.0 mm Ø
- 632128** Cotton Carrier, twist end serrated, 2.5 mm Ø, 28 cm length
- 632220** Aspiration Tube, 3 mm Ø, smooth oval shaped opening on each side of distal tip with a closed, blunt end, working length 22 cm
- 632221** same, 4 mm Ø
- 632130** Injection Needle, Luer-Lock, bayonet shaped, working length 23 cm
- 632131** same, curved

Storing and Sterilization



286200



287303



808130

808130 Valve Container, pure aluminium,
600 x 270 x 130 mm (inner dimensions 554 x 254 x 105 mm)
especially recommended for Magnetic Racks
286200 or 286202

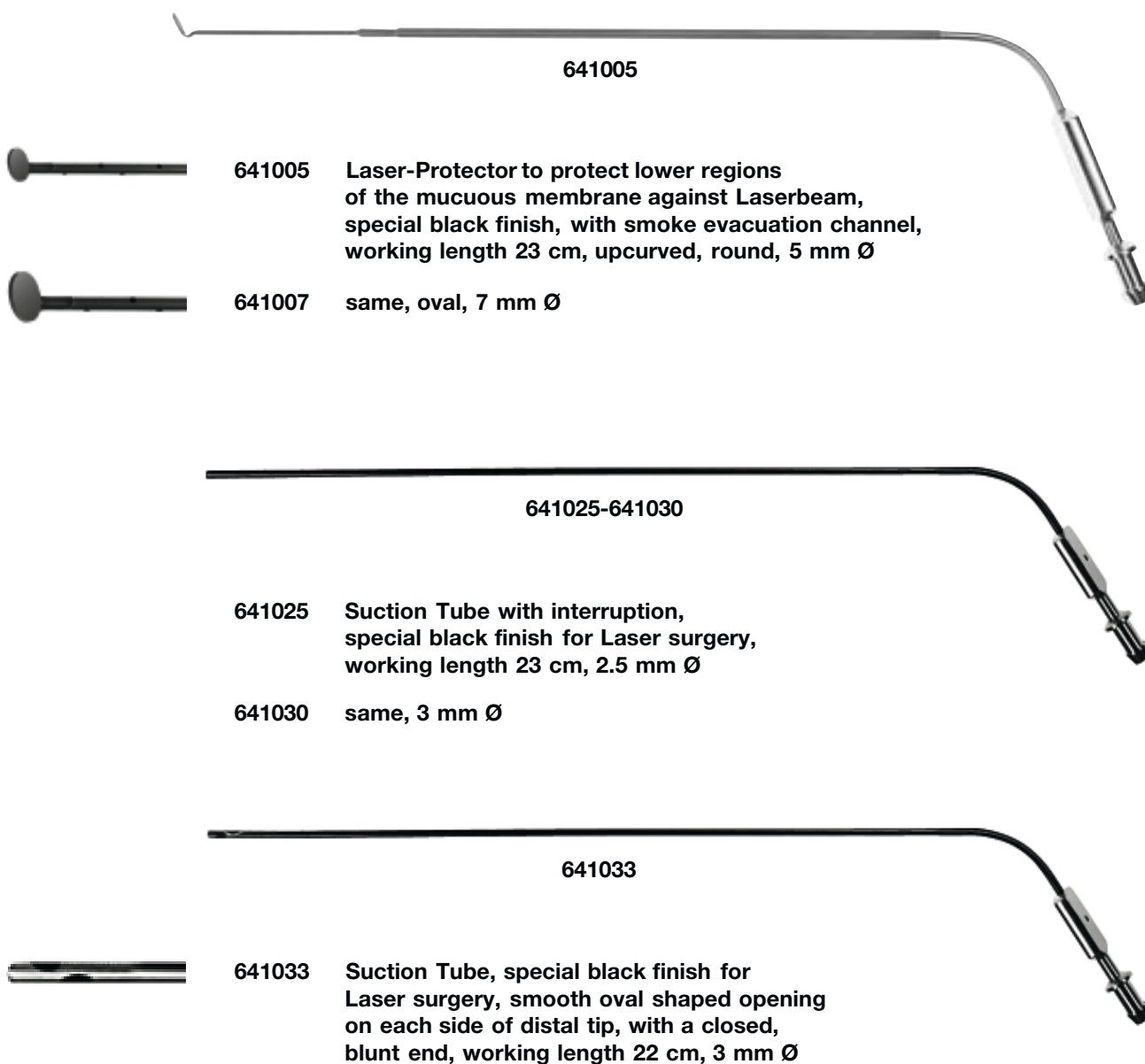
286200 Large Magnetic Rack 480 x 240 x 40 mm,
with 3 magnetic stripes

286202 same, with 2 magnetic stripes, 480 x 185 x 40 mm (w/o illustr.)

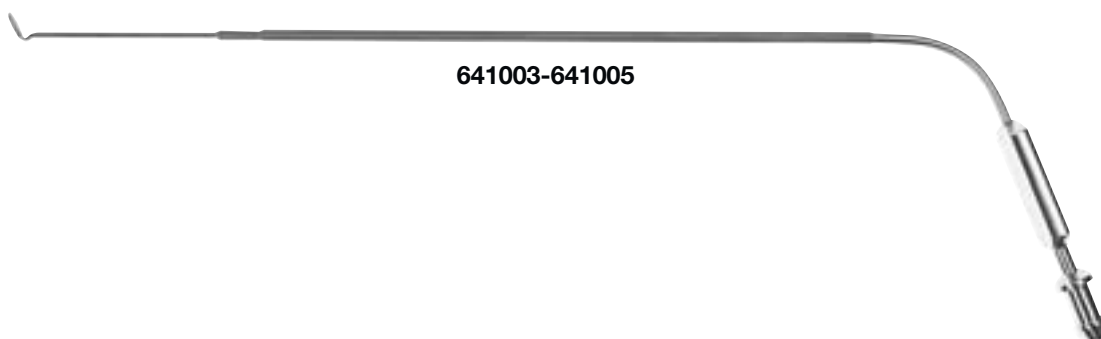
287303 Metal Tray with lid, for Magnetic Racks 286200 and 286202
500 x 300 x 50 mm, stainless steel

Transoral CO₂-Laser Micro Surgery

in the Upper Aerodigestive Tract



CO₂-Laser Micro Laryngoscopy



641003 Laser Protector with smoke evacuation channel, special black finish, working length 23 cm, round, curved up, 3 mm Ø



641004 same, 4 mm Ø



641005 same, 5 mm Ø



641009 same, oval, straight, distal suction hole left side



641010 same, distal suction hole right side



641011 same, corner shaped, distal suction hole left side



641012 same, distal suction hole right side



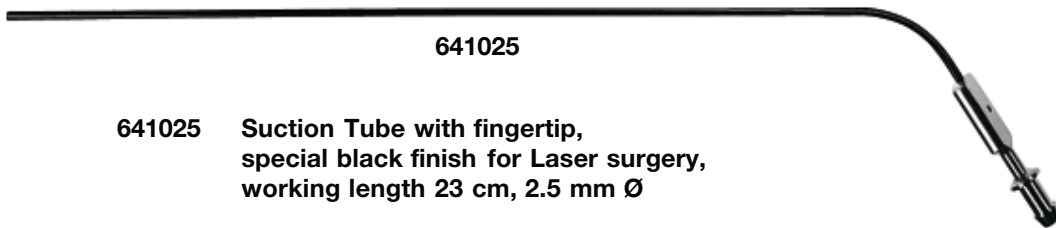
641013 same, bayonet shaped, distal suction hole left side

641014 same, distal suction hole right side

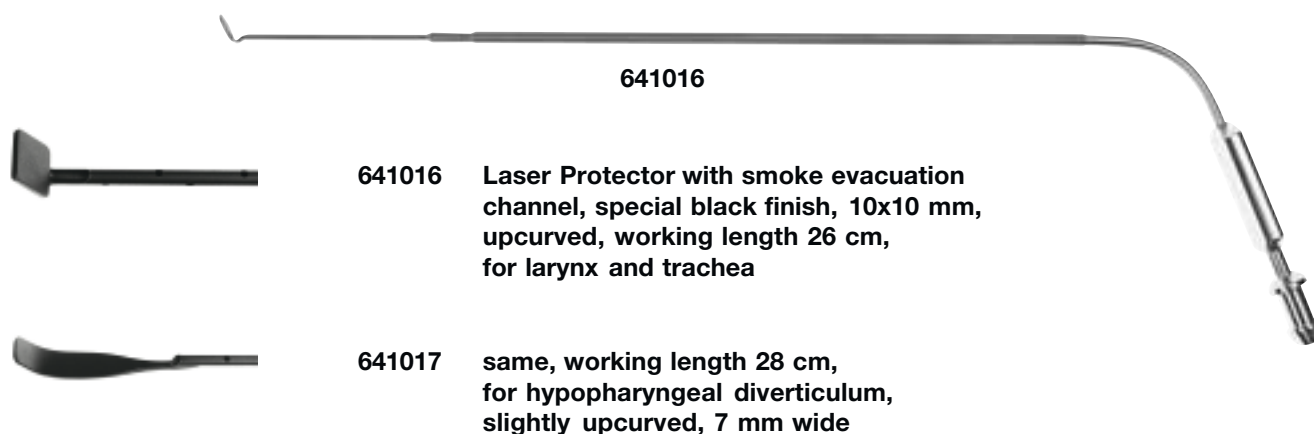
641025

641025 Suction Tube with fingertip,
special black finish for Laser surgery,
working length 23 cm, 2.5 mm Ø

641030 same, 3 mm Ø



CO₂-Laser Diverticuloscopy and Tracheoscopy



Laryngo-Broncho-Esophagoscopic Forceps



631304 - 631635
JACKSON Broncho-Esophagoscopic Forceps
 and Biopsy-Forceps with standard-shaft,
 upper jaws moveable

632304 - 632635
 same, double action jaws

shaft-length					
30 cm	631304	631305	631306	632304	632306
40 cm	631404	631405	631406	632404	632406
50 cm	631504	631505	631506	632504	632506
60 cm	631604	631605	631606	632604	632606

shaft-length						
	Ø 2 mm	Ø 4 mm	Ø 2 mm	Ø 4 mm	Ø 4 mm	
30 cm	631312	631313	631317	631319	632314	632320
40 cm	631412	631413	631417	631419	632414	632420
50 cm	631512	631513	631517	631519	632514	632520
60 cm	631612	631613	631617	631619	632614	632620

shaft-length					
30 cm	631320	631331	631335	632331	632335
40 cm	631420	631431	631435	632431	632435
50 cm	631520	631531	631535	632531	632535
60 cm	631620	631631	631635	632631	632635



640850-660896

Broncho-Esophagoscopic Forceps, shaft diameter 2.5 mm, tube shaft

635710-635816

Laryngoscopy and Children Bronchoscopy Forceps,
shaft-Ø: 1.5 mm, tube shaft

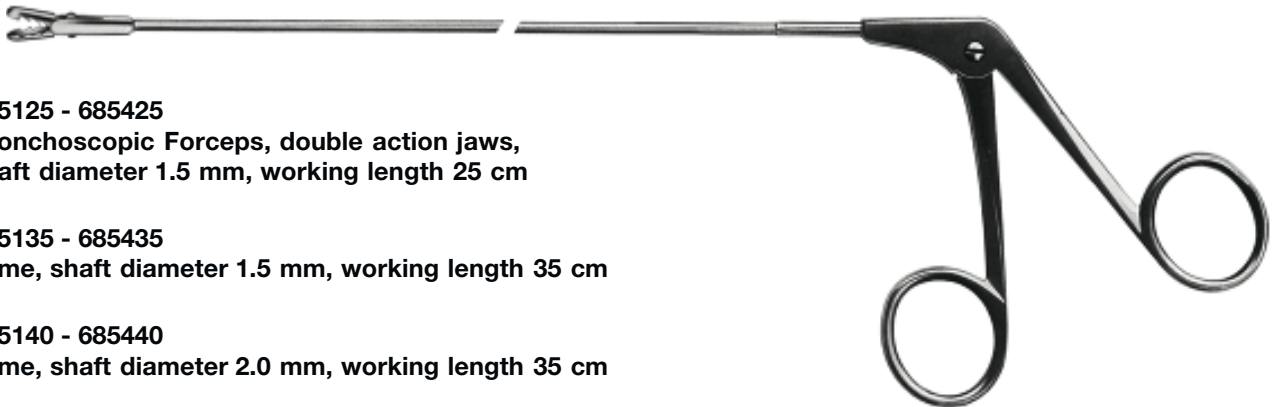
Shaft diameter

Length	40 cm	50 cm	60 cm
	640850	650850	660850
	640862	650862	660862
	640864	650864	660864
	640866	650866	660866
	640876	650876	660876
	640878	650878	660878
	640879	650879	660879
	640882	650882	660882
	640884	650884	660884
	640890	650890	660890
	640892	650892	660892
	640894	650894	660894
	640896	650896	660896

Shaft diameter: 1.5 mm

Length	35 cm
	635710
	635730
	635732
	635790
	635792
	635793
	635794
	635796
	635812
	635814
	635816

Broncho- Esophagoscopic Forceps



685125 - 685425

**Bronchoscopic Forceps, double action jaws,
shaft diameter 1.5 mm, working length 25 cm**

685135 - 685435

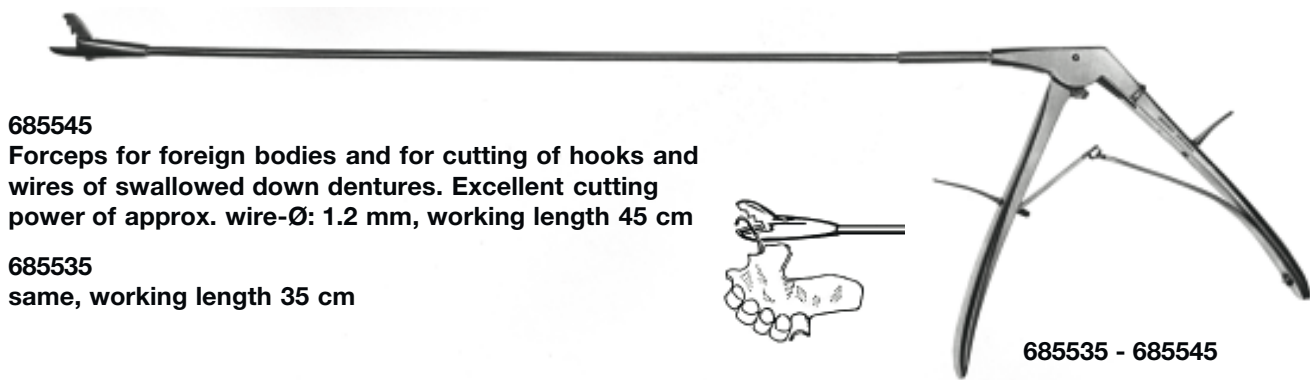
same, shaft diameter 1.5 mm, working length 35 cm

685140 - 685440

same, shaft diameter 2.0 mm, working length 35 cm

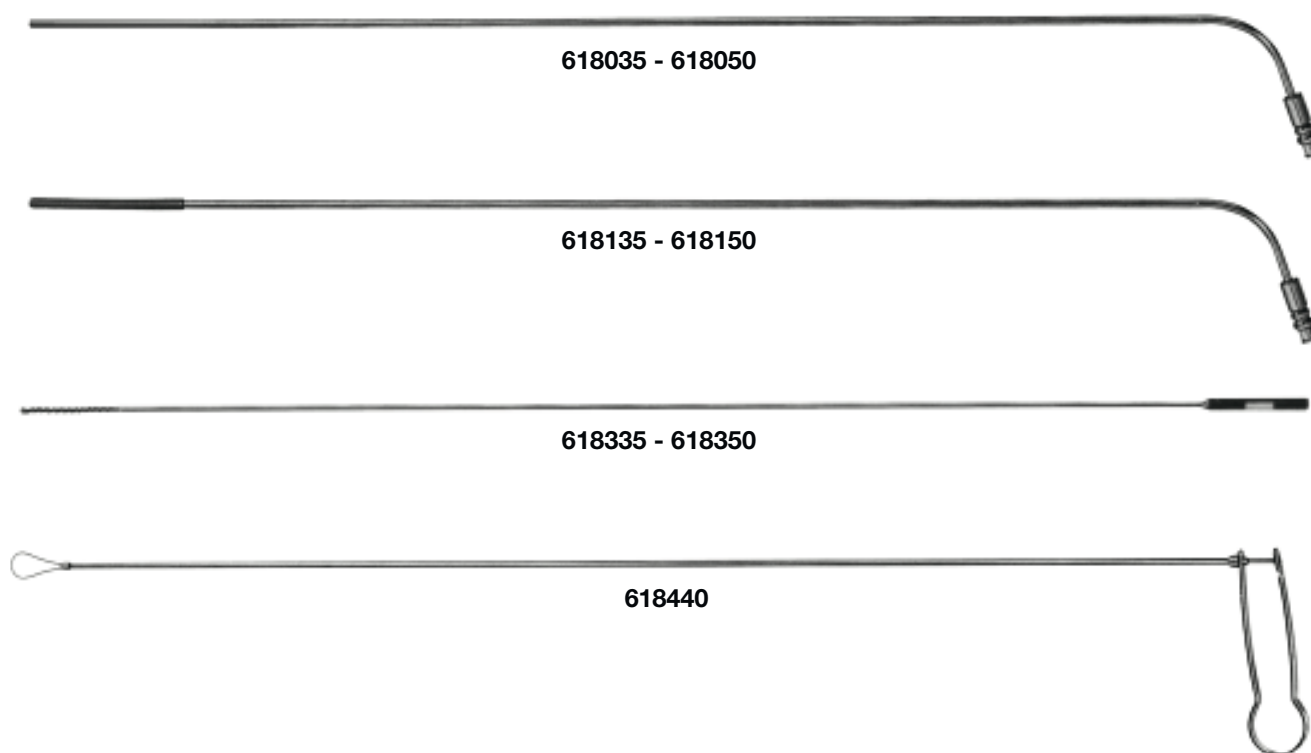
685150 - 685450

same, shaft diameter 2.5 mm, working length 55 cm



w. length- shaft Ø	25 cm 1.5 mm	35 cm 1.5 mm	35 cm 2.0 mm		55 cm 2.5 mm	
	685125	685135	685140		685150	Foreign Body Forceps, alligator jaws
	685225	685235	685240		685250	Universal Biopsy and Grasping Forceps
	685325	685335	685340		685350	Cup Biopsy Forceps, straight
	685425	685435	685440		685450	Grasping Forceps for peanuts

Accessories for Bronchoscopy



618035	Rigid Suction Tube, working length 35 cm, 2.5 mm Ø
618050	same, working length 50 cm, 4.0 mm Ø
618135	same, with flexible rubber tip, working length 35 cm
618150	same, working length 50 cm
618335	Cotton Carrier, working length 35 cm
618350	same, working length 50 cm
618440	Sponge Holder, 1 x 2 teeth, working length 38 cm

Contents

Illumination.....GHI-110

Scalpels GHI-220

Scissors GHI-225
GHI-226

Scissors
with Tungsten Carbide Inserts GHI-230

Tissue Forceps,
Dressing Forceps.....GHI-235

Needle Holders
with Tungsten Carbide Inserts GHI-240

Artery Forceps,
Clamp Forceps GHI-245

Retractors GHI-250

Syringes,
Cannulas GHI-255

Container System GHI-260

Basic Accessories.....GHI-265



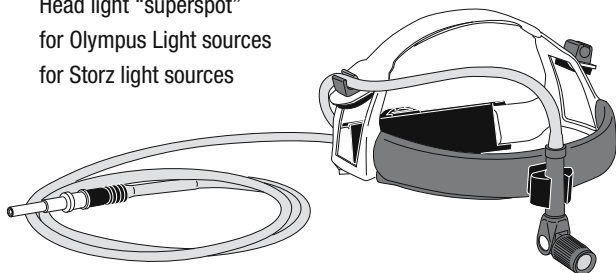
superspot Head Light

- ✓ Increased light transmission through latest fiber optic technology
- ✓ Adjustable cable guide left, right, centre
- ✓ Extremely light-weight
- ✓ “Easy Click” by adjustable headband
- ✓ Stepless focusable lense for homogeneous light



superspot Head Light

- 952305 Head light "superspot"
for Olympus Light sources
- 952300 Head light "superspot"
for Storz light sources



Technical Data

Dimensions

Cable, length 2300 mm

Cable, diameter 35 mm

Weight, headband with optic.....170 g

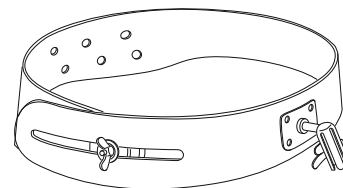
Optic

Spot diameter.....10–80 mm

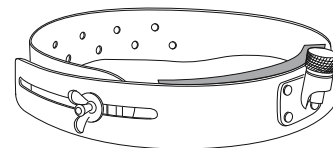
Working distance.....250–300 mm

Head Mirrors

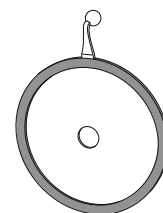
- 950200 Head band,
celluloid
- 950201 Head band,
plastic, white, soft



- 950203 Head band,
plastic, white,
with ball- and socket joint

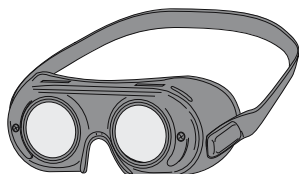


- Head mirror,
with ball joint,
interchangeable,
- 950600 90 mm
- 950700 100 mm

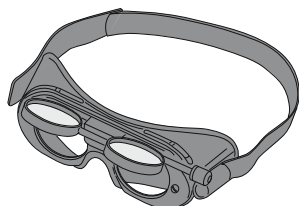


Nystagmus Spectacles

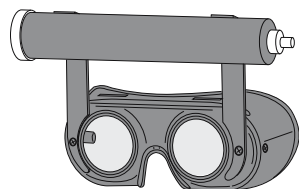
- 651000 Nystagmus spectacles,
acc. to Frenzel



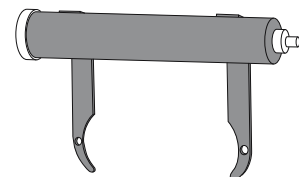
- 651100 Nystagmus spectacles,
acc. to Frenzel,
with hinged lenses



- 651200 Nystagmus spectacles,
acc. to Frenzel,
with battery handle



- 651201 Battery handle,
for EG651200

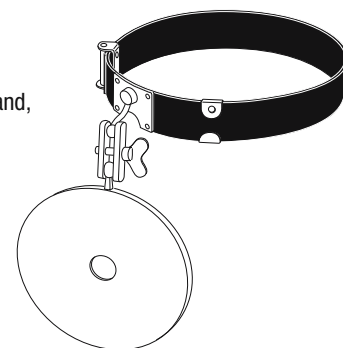


- 651300 Spare lamp,
4 V, for EG651201

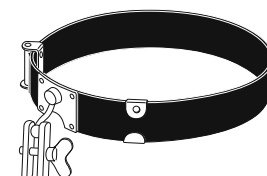


Ziegler Head Mirrors

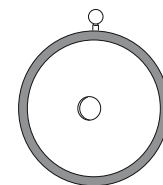
- Head mirror,
acc. to Ziegler,
with black plastic head band,
with 90 mm head mirror
- 950000
- 950001 with 100 mm head mirror



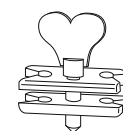
- Head band,
plastic,
black
- 950100
- 950101 white



- Head mirror,
with rubber frame,
- 950300 90 mm
- 950400 100 mm



- 950500 Double joint,
metal



Scalpels

429003 - 429104 Scalpel Handles



429003
Fig. 3



429004
Fig. 4



429007
Fig. 7



429103
Fig. 3L



429104
Fig. 4L

429010 - 429015

Scalpel Blades, sterile, Fig. 10 - 15, pack of 100 pieces, fitting for handles No. 3, 3L and 7

429020 - 429023

same, fitting for handles No. 4 and 4L



429010



429011



429015



429020



429021



429023

Scissors



Scissors,
STANDARD,
straight



Fig. 1



Fig. 2



Fig. 3

13,0 cm = 183001
14,5 cm = 183101

183002
183102

183003
183103



Scissors,
STANDARD,
curved



14,5 cm = 183302



Scissors,
GRAZIL,
straight



Fig. 1



Fig. 2



Fig. 3

13,0 cm = 183401
14,5 cm = 183501

183402
183502

183403
183503

Scissors



UNIVERSAL
277901
12 cm
saw edge



UNIVERSAL
277903
12 cm
saw edge



LISTER
212614 = 14 cm
212618 = 18 cm



SCHUHKNECHT
269500
10 cm
saw edge



SPENCER
277809 = 9 cm
277900 = 12 cm



KILNER (SHEA)
438712 = 12 cm
438714 = 14 cm



KILNER
438813
13 cm

Scissors

(cont.)

Scissors



MAYO
straight

212014 = 14 cm = 212114
212015 = 15 cm = 212115
212017 = 17 cm = 212117



MAYO
curved

212114
212115
212117



LEXER
straight

212216 = 16 cm = 212316



LEXER
curved

212316



METZENBAUM
straight

541814 = 14 cm = 542014
541818 = 18 cm = 542018
541820 = 20 cm = 542020



METZENBAUM
curved

542014
542018
542020



METZENBAUM-FINO
straight

541914 = 14 cm = 542114
541918 = 18 cm = 542118
541920 = 20 cm = 542120



METZENBAUM-FINO
curved

542114
542118
542120

Scissors

with Tungsten Carbide Inserts

Scissors,
with tungsten carbide inserts



GOLDMAN-FOX
13 cm
268413
straight



268613
curved



FOMON
13 cm
439002



STRABISMUS
11,5 cm
277012
straight



STRABISMUS
11,5 cm
277112
curved



IRIS
11,5 cm
277512
straight



IRIS
11,5 cm
277612
curved

Scissors,
with tungsten carbide inserts



METZENBAUM-FINO
curved

542414 = 14,5 cm

542418 = 18,0 cm

542420 = 20,5 cm



METZENBAUM
curved

542214 = 14,5 cm

542218 = 18,0 cm

Tissue Forceps, Dressing Forceps

Forceps



Standard			narrow
209013	=	13,0 cm	= 209000
209014	=	14,5 cm	= 209001
209016	=	16,0 cm	= 209002
209020	=	20,0 cm	= 209003



Standard			narrow
209113	=	13,0 cm	= 209100
209114	=	14,5 cm	= 209101
209116	=	16,0 cm	= 209102
209120	=	20,0 cm	= 209103



SEMKEN
12,5 cm
208612



SEMKEN
12,5 cm
208712



McINDOE
15 cm
208915



GRAEFE
10 cm
209210

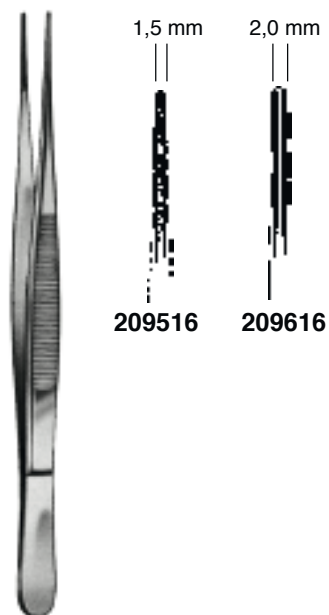


GRAEFE
10 cm
209310



GILLIES
15 cm
209415

Forceps



ADSON
12 cm
425112



ADSON
12 cm
425212

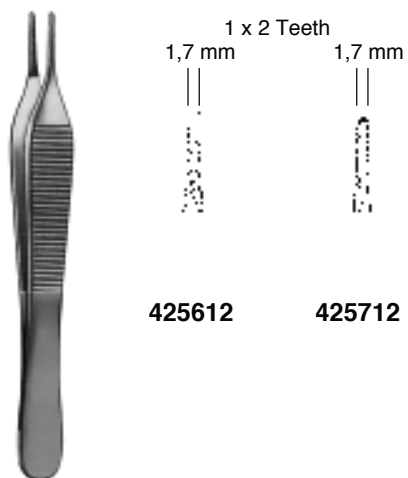


ADSON-BROWN
12 cm
425012

DeBAKEY
15 cm



ADSON-BROWN
12 cm



ADSON
12 cm

Needle Holders

with Tungsten Carbide Inserts

Needle holders,
with tungsten carbide inserts



MAYO-HEGAR

214016 16 cm
214018 18 cm
214020 20 cm



SENNING

467015 15 cm
467017 17 cm



CRILE-WOOD
15 cm
213015

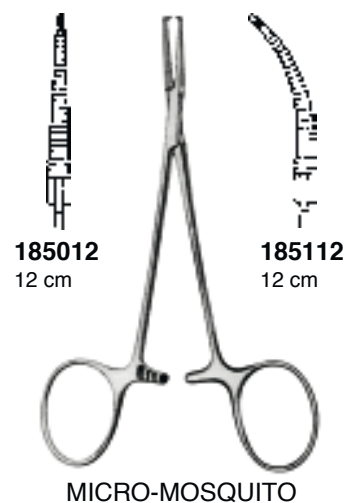
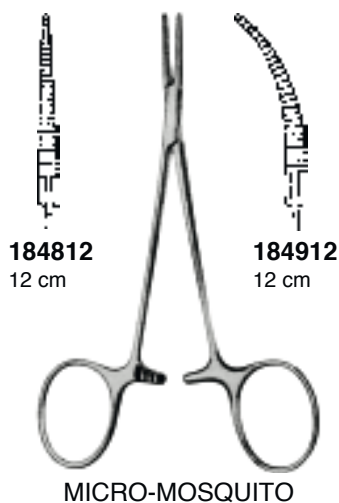
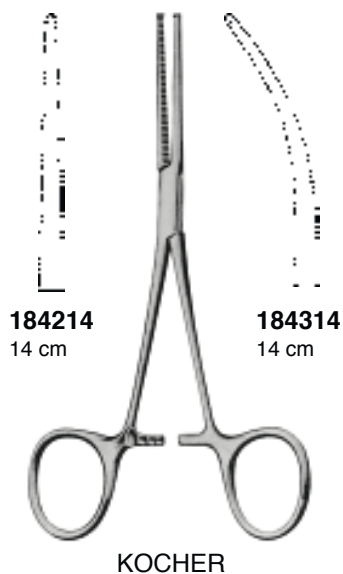
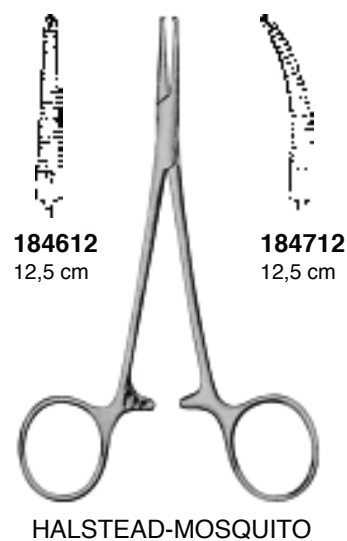
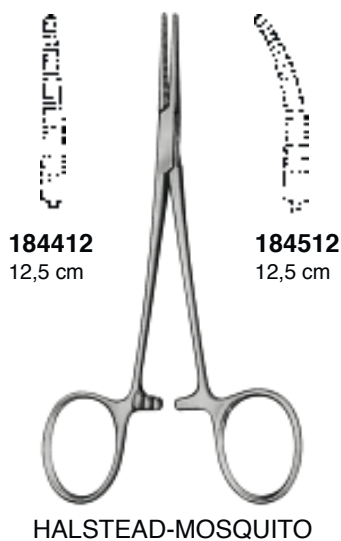
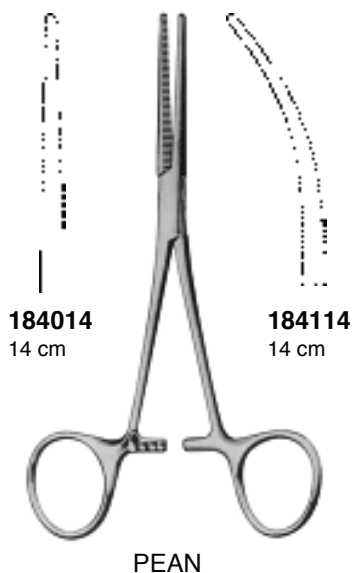


HALSEY
13 cm
213113



Artery Forceps, Clamp Forceps

Artery forceps

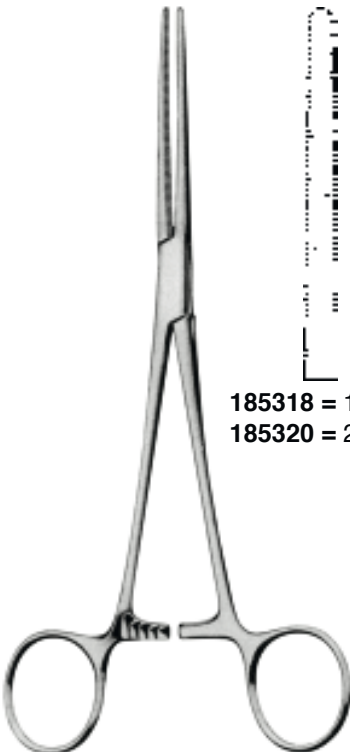


Clamp forceps



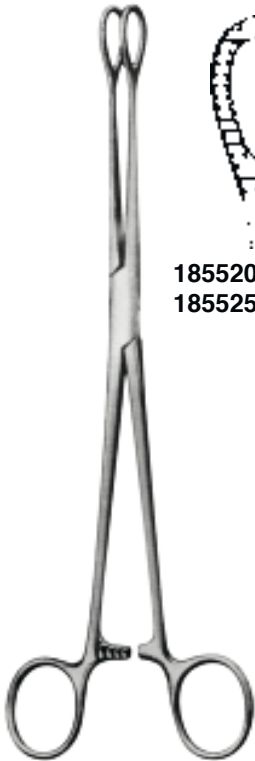
185214
14 cm

DANDY



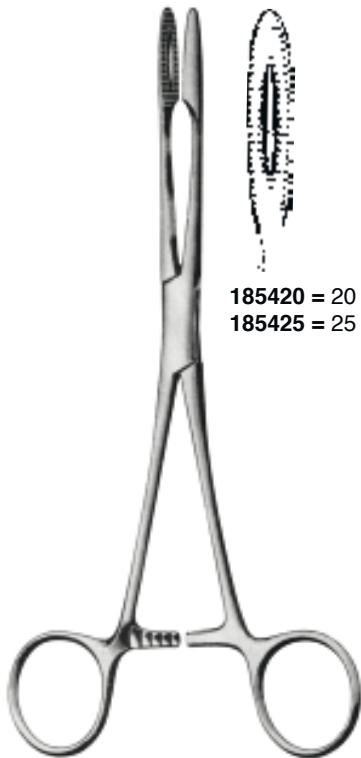
185318 = 18 cm
185320 = 20 cm

PÉAN (ROCHESTER)



185520 = 20 cm
185525 = 25 cm

FOERSTER



185420 = 20 cm
185425 = 25 cm

GROSS-MAIER



DUPLAY
549500



186008 = 8 cm
186011 = 11 cm
186013 = 13 cm

BACKHAUS



SCHAEFFEL
186109 = 9 cm

Retractors

Fig. 2 = 30 x 10 mm
Fig. 1 = 26 x 10 mm

Fig. 1 = 30 x 13 mm
Fig. 2 = 34 x 13 mm



FARABEUF
564500, set
12 cm



502501 = 35 x 7 mm

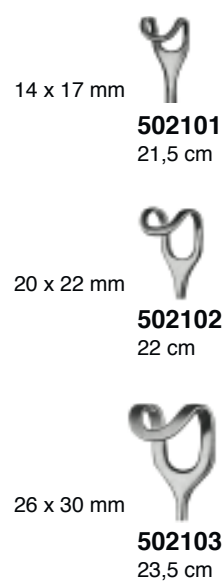
502502 = 35 x 10 mm

502503 = 35 x 15 mm

502504 = 60 x 20 mm



LANGENBECK
21 cm



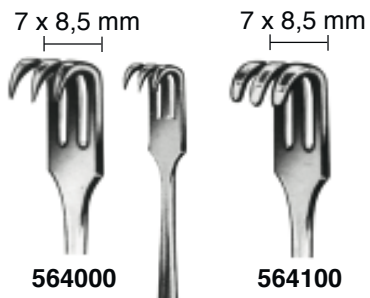
14 x 17 mm
502101
21,5 cm

20 x 22 mm
502102
22 cm

26 x 30 mm
502103
23,5 cm



MIDDLEDORPF



SENN-MILLER
16 cm

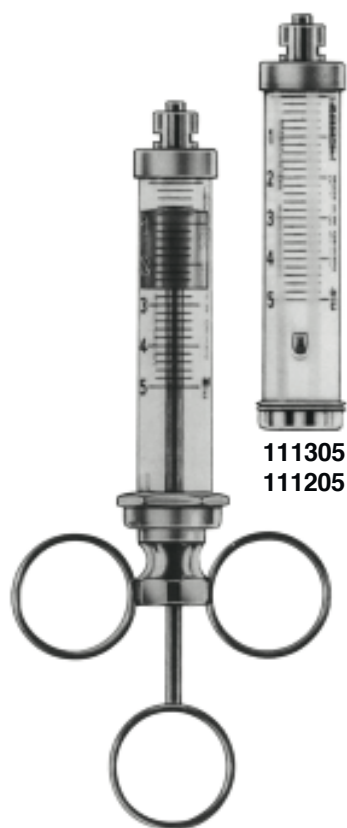


Trachea Hook
16 cm
sharp



Trachea Hook
16 cm
blunt

Syringes, Cannulas



111305
111205



111400 111500 111600 111700 111800

- 111205** 3-Ring Syringe, LUER-Lock, 5 cc
same, 5 cc
- 111302** Spare Cylinder, LUER-Lock, 5 cc
- 111305** same, 5 cc

- 111400** Laryngeal Cannula, LUER-Lock
- 111500** Tonsil Needle, LUER-Lock,
straight, 0.8 mm Ø
- 111600** Tonsil Needle, LUER-Lock,
tip 90 ° angled, 0.8 mm Ø
- 111700** Septum Needle, LUER-Lock,
bayonet shaped, 0.8 mm Ø
- 111800** Septum Needle, LUER-Lock,
angled, 0.8 mm Ø

Container System



Valve Container

Pure aluminium, seamless drawn, hard-anodized; intermediate cover with maintenance-free valves (DBP) and silicone gasket; lockable, sealable closure systems; heat-insulated handles; inserts for coding and control labels.

Cover colours available in silver, gold, red, blue, green. Handles available in grey (standard), red, blue, yellow, green, brown, black or white

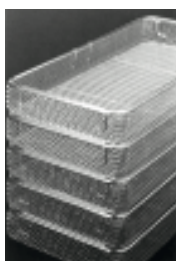


Instrument Trays

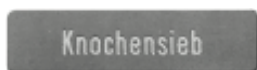
High-grade steel wire mesh with standing and reinforcement edges, stackable (with anti-slide protection), optional insert for coding label.



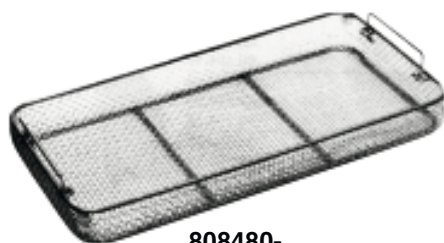
807110 - 808260



808401 - 808408



808450
808451



808480-
808990



809240-
809990

Cat. No.	Dimensions approx. mm (l x w x h)	Pack- sheet	size	Corresponding tenting frame
808260	600 x 270 x 260	808301	170 x 55	808310
808200	600 x 270 x 200	808301	170 x 55	808310
808150	600 x 270 x 150	808302	120 x 90	808310
808130	600 x 270 x 130	808302	120 x 90	808310
808110	600 x 270 x 110	808302	120 x 90	808310
807260	300 x 270 x 260	808303	110 x 55	808311
807200	300 x 270 x 200	808303	110 x 55	808311
807150	300 x 270 x 150	808304	90 x 90	808311
807130	300 x 270 x 130	808304	90 x 90	808311
807110	300 x 270 x 110	808304	90 x 90	808311

808401	515 x 250 x 30
808402	515 x 250 x 60
808403	515 x 250 x 100
808404	485 x 250 x 60
808405	485 x 250 x 100
808406	240 x 250 x 30
808407	240 x 250 x 60
808408	240 x 250 x 100

808450 Identification Tag, text and colour at option
(colours: silver, gold, red, blue, green)

808451 same, blank

808480 Sterilizing Tray of wire mesh,
sizes: 480 x 250 x 50 mm

808750 same, 520 x 250 x 75 mm

808990 same, 520 x 250 x 100 mm

809240 Sterilizing tray of perforated steel sheet,
stainless steel, sizes: 240 x 240 x 50 mm

809260 same, 240 x 240 x 80 mm

809270 same, 240 x 240 x 100 mm

809480 same, 480 x 260 x 50 mm

809750 same, 520 x 260 x 80 mm

809990 same, 520 x 260 x 100 mm

Basic Accessories



813017 - 813027

- 813017** Glass Box with Lid of stainless steel, 170 x 90 mm
813020 same, 200 x 100 mm
813022 same, 220 x 150 mm
813027 same, 275 x 150 mm



813130 - 813150

- 813130** Instrument Tray of stainless steel, 300 x 175 x 30 mm
813140 same, 300 x 175 x 40 mm
813150 same, 350 x 240 x 36 mm



813510

- 813505** Glass Medicine Cups, coloured set of 5 pieces
813510 same, only 1 cup



990000



990100

- 990000** Spirit Lamp from metal, 100 cc, for flat wick
990100 same, 120 cc, for round wick



997001 - 997003

- 997001** Solution Bowl, 165 mm Ø, 60 mm high, 0.75 l, stainless steel
- 997002** same, 175 x 70 mm, 1.00 l
- 997003** same, 220 x 80 mm, 2.00 l



**997008
997010**

- 997008** Kidney Bowl, 170 x 100 x 35 mm, stainless steel
- 997010** Kidney Bowl, 250 x 140 x 40 mm, stainless steel
- 997020** same, 275 x 150 x 45 mm
- 997011** Lid for 907010, stainless steel



**997030-
997150**

- 997030** Solution Bowl, stainless steel, 30 cc
- 997050** same, 50 cc
- 997100** same, 100 cc
- 997150** same, 150 cc



997206

- 997206** China Bowl, 6 cm Ø
- 997210** same, 11 cm Ø

- 819323** ROGGE Sterilizing Forceps, 23 cm



819323

Contents

Protheses OSS-105

OSS-110

OSS-115

OSS-120

OSS-125

OSS-130

OSS-135

OSS-140

OSS-145

OSS-150

OSS-155

OSS-160

OSS-165

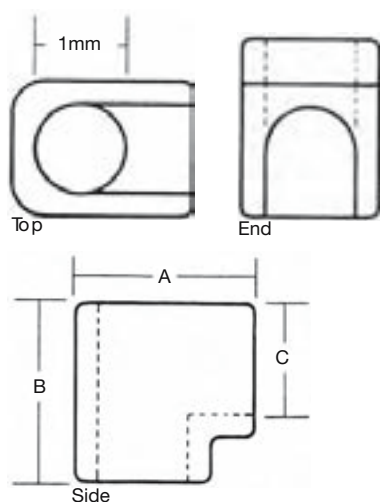
OSS-170

OSS-175

Mastoidectomy

Hydroxylapatite Accessories OSS-205

Accessories OSS-210



14-0956

Applebaum Incudostapedial Joint Prostheses

Dense Hydroxylapatite

Reestablishes the ossicular chain when the incudostapedial joint is missing. Eliminates the need for a bone chip interposition or removal of the incus.

Catalog Number	Description	Cannulated	Dimensions		
			A	B	C
14-0956	Small	1mm	2mm	2mm	1.2mm
14-0957	Large	1mm	2.5mm	2mm	1.2mm

*As developed by Edward L. Applebaum, M.D., Chicago, IL.



14-0970

Applebaum Incus Replacement System (I.R.S.)

Dense Hydroxylapatite

The Applebaum Incus Replacement System has been designed to closely resemble a carved homograft/autograft incus interposition implant. The Applebaum I.R.S. is made of dense hydroxylapatite and is offered in 5 sizes, eliminating any need to trim. The implants are 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 (#13-0976).

Catalog Number	Length	Width
14-0970	2mm	2.5mm
14-0971	2.25mm	2.5mm
14-0972	2.5mm	2.5mm
14-0973	3mm	2.5mm
14-0974	3.5mm	2.5mm

As developed by Edward L. Applebaum, M.D., Chicago, IL.

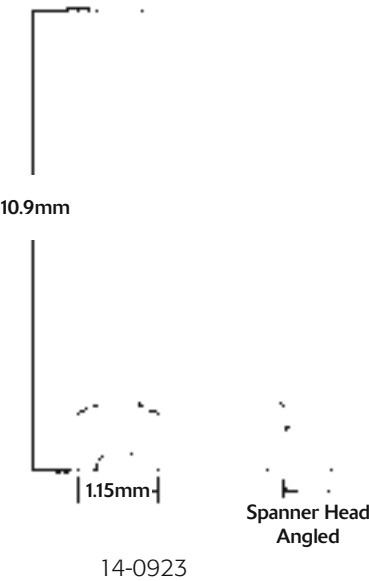
Black Spanner Strut

Hydroxylapatite/Fluoroplastic

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.

Catalog Number	Cup I.D.	Shaft Diameter	Overall Length
14-0923	1.15mm	0.8mm	10.9mm

As developed by Bruce Black, M.D., Brisbane, Australia.



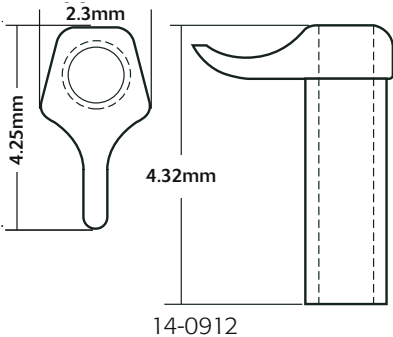
Goldenberg Incus Prosthesis

Hydroxylapatite/Plasti-Pore™

Hydroxylapatite head designed with a “hook” to be rotated inferiorly or superiorly along the length of the malleus handle, and includes a centering hole to view the stapes capitulum. Plasti-Pore™ shaft may be trimmed to exact length and notched for the stapedius tendon.

Catalog Number	Cannulated	Head Dimensions
14-0912	Fully	4.25mmx 2.3mm

Developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.

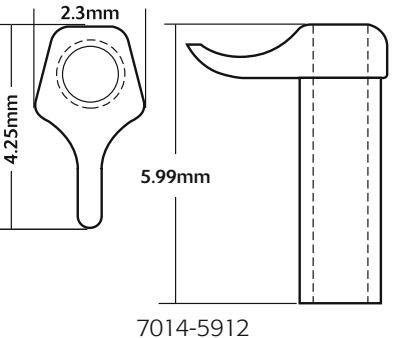


Goldenberg Incus Prosthesis

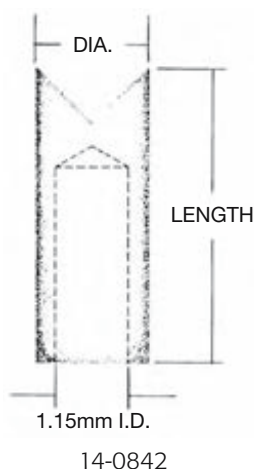
Hydroxylapatite/HAPEX™

Catalog Number	Cannulated	Head Dimensions
7014-5912	Fully Cannulated, 1.12mm; Functional Length 5.9mm	Head 4.25 x 2.3 Thickness

Developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



14-0842
14-0865
7014-0990



Grate Malleus-to-Stapes Strut

Plasti-Pore™

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.

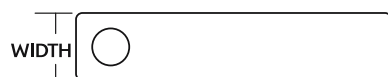
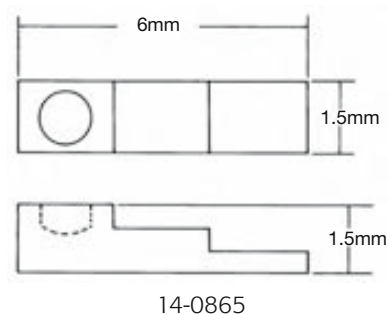
Catalog Number	I.D.	O.D.	Overall Length
14-0842	1.15mm	1.78mm	4.7mm

Designed for M.R. Grate, M.D., Tallahassee, FL.

Grote Incus Prostheses

Hydroxylapatite

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.



Catalog Number	Description	Height	Width	Overall Length
14-0865	Partially Cannulated, 0.83mm	1.5mm	1.5mm	6mm
7014-0990	Partially Cannulated, 0.83mm	1.5mm	1.5mm	7mm

Designed by Jan J. Grote, M.D., Leiden, The Netherlands.

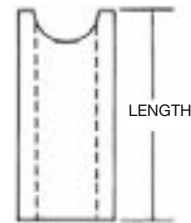
Kartush Incus Strut Prostheses

Hydroxylapatite

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.

Catalog Number	Cannulated	Shaft	Overall Length
14-0853	1.17mm, Fully	Short	2.75mm
14-0854	1.17mm, Fully	Medium	3.9mm
14-0855	1.17mm, Fully	Long	4.9mm

As designed by Jack M. Kartush, M.D., EAR Institute, Michigan Ear Institute.



14-0853

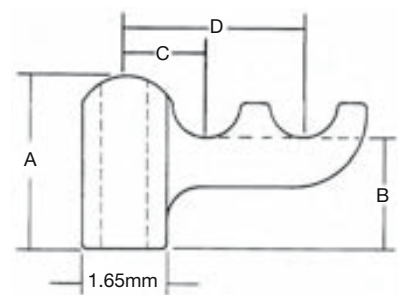
Wehrs Incus Prostheses, Double Notch

Hydroxylapatite/HAPEX™

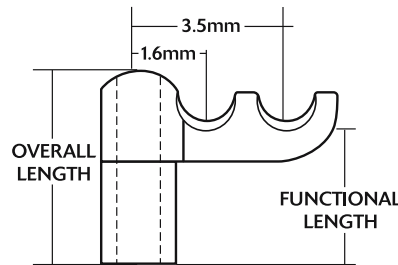
The Double Notch Incus Prosthesis is designed for use when the anatomic position of the stapedial head in relation to the malleus handle is between 1.2 and 2 millimeters, or between 3 and 4 millimeters. For the smaller dimension, the second notch may be removed with a diamond burr using irrigation.

Catalog Number	Description	Dimensions			
		A	B	C	D
14-0877	Short, Hydroxylapatite	2.1mm	0.9mm	1.6mm	3.5mm
14-0941	Average, Hydroxylapatite	2.7mm	1.5mm	1.6mm	3.5mm
14-0878	Medium, Hydroxylapatite	3.3mm	2.1mm	1.6mm	3.5mm
14-0879	Long, Hydroxylapatite	4.5mm	3.3mm	1.6mm	3.5mm
7014-5895	Fully Cannulated, 1mm HAPEX™ Shaft	4.5mm	3.3mm	1.6mm	3.5mm

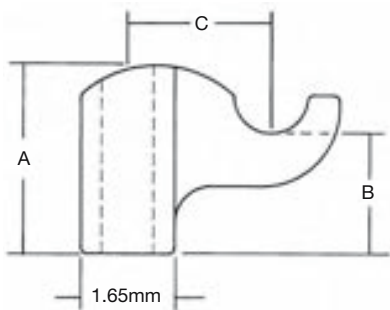
As designed by Roger E. Wehrs, M.D., Tulsa, OK.



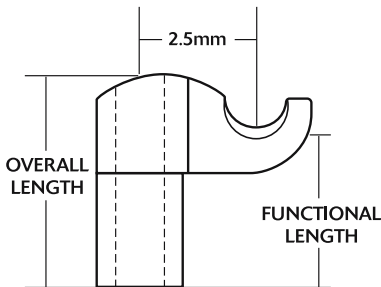
14-0877



7014-5895



14-0874



7014-5894

Wehrs Incus Prostheses, Single Notch

Hydroxylapatite/HAPEX™

The Single Notch Prosthesis is applicable when the “offset” from the head of the stapes to the malleus handle is estimated to be from 2.0 to 3.0 millimeters. Lesser or greater distances require the use of a Double Notch Prosthesis.

Catalog Number	Description	Dimensions		
		A	B	C
14-0874	Short, Hydroxylapatite	2.1mm	0.9mm	2.5mm
14-0940	Average, Hydroxylapatite	2.7mm	1.5mm	2.5mm
14-0875	Medium, Hydroxylapatite	3.3mm	2.1mm	2.5mm
14-0876	Long, Hydroxylapatite	4.5mm	3.3mm	2.5mm
7014-5894	HAPEX™ Shaft, Fully Cannulated, 1mm	4.5mm	3.3mm	2.5mm

Designed by Roger E. Wehrs, M.D., Tulsa, OK.

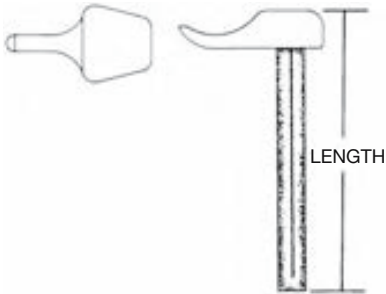
Goldenberg Incus-Stapes Prosthesis

Hydroxylapatite/Plasti-Pore™

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.

Catalog Number	Shaft Diameter	Overall Length
14-0913	0.8mm	8.13 mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



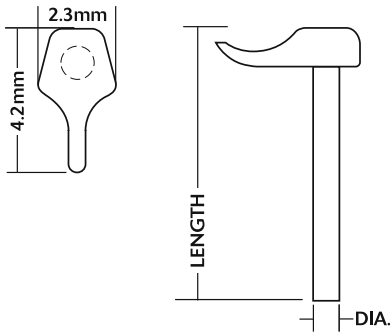
14-0913

Goldenberg Incus-Stapes Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Dimensions	Functional Length
7014-5913	Head 4.2 x 2.3 mm	8.2mm

Designed for Robert Goldenberg, M.D., Dayton, OH.



7014-5913

Grote Incus-Stapes Prostheses

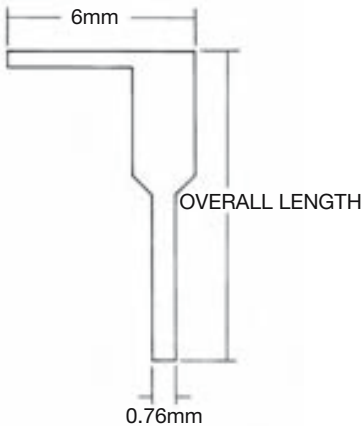
Hydroxylapatite

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.

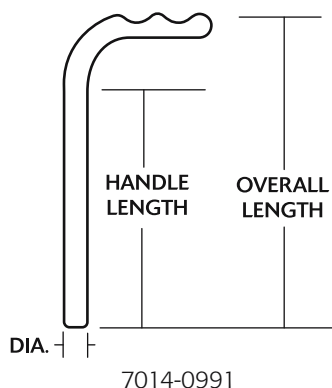
To Use: Measure the distance from the footplate to the undersurface of the tympanic membrane and the offset between the centerline of the footplate and the handle of the malleus. Use these measurements to trim the prosthesis to the proper dimensions using a diamond burr and irrigation. Form a pocket 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.

Catalog Number	Shaft	Handle Length	Overall Length
14-0869	0.76 mm	6 mm	10 mm
14-0870	0.76 mm	6 mm	7 mm

As designed by Jan J. Grote, M.D., Leiden, The Netherlands.



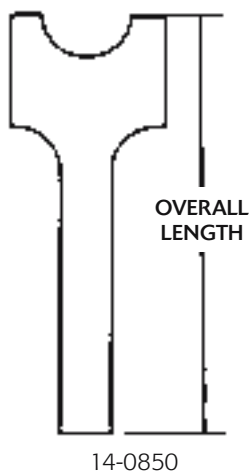
14-0869



Grote Incus-Stapes Prosthesis Dense Hydroxylapatite

Catalog Number	Description	Dimensions
7014-0991	0.91mm Thick, Handle: 5mm, Shaft Diameter: 0.76mm	10mm x 5mm x 9mm

As designed by Jan J. Grote, M.D., Leiden, The Netherlands.



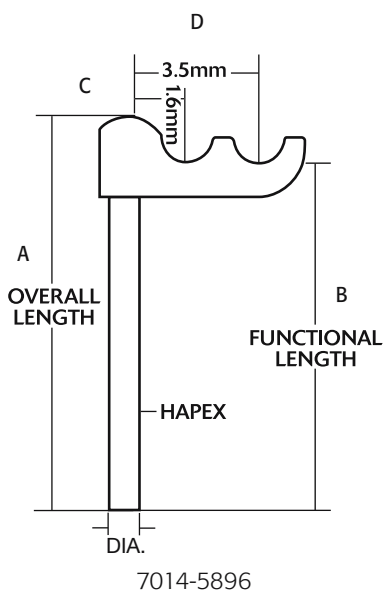
Kartush Incus-Stapes Strut Prostheses

Hydroxylapatite

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.

Catalog Number	Description	Shaft	Overall Length
14-0850	Short	0.76mm	5.3mm
14-0851	Medium	0.76mm	7.3mm
14-0852	Long	0.76mm	10.3mm

As designed by Jack M. Kartush, M.D., Michigan Ear Institute.



Wehrs Incus-Stapes Prostheses, Double Notch

Hydroxylapatite/HAPEX™

The Double Notch Prosthesis is applicable when the required offset from the stapes footplate to the malleus handle is estimated to be between 1.2 and 2.0 millimeters, or 3.0 and 4.0 millimeters. The second notch may be removed with a diamond burr and irrigation if not selected for use.

Catalog Number	Description	Dimensions			
		A	B	C	D
7014-5896	0.8mm Hapex™ Long Shaft	10.2mm	9mm	1.6mm	3.5mm

As designed by Roger E. Wehrs, M.D., Tulsa, OK.

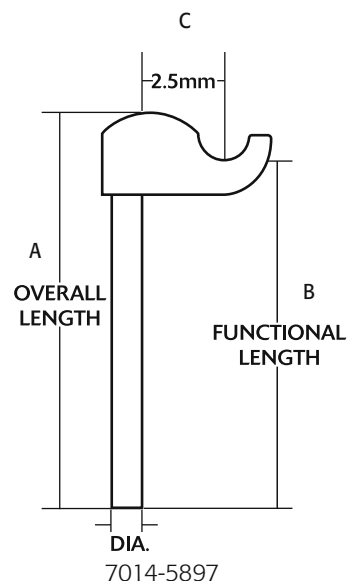
Wehrs Incus-Stapes Prostheses, Single Notch

Hydroxylapatite/HAPEX™

The Single Notch Prosthesis is designed for use when the required offset from the stapes footplate to the malleus handle is estimated to be from 2 to 3 millimeters. Other distances require the use of the Double Notch Prosthesis.

Catalog Number	Description	Dimensions		
		A	B	C
7014-5897	0.8mm Hapex™ Shaft, Long	10.2mm	9mm	2.5mm

As designed by Roger E. Wehrs, M.D., Tulsa, OK.

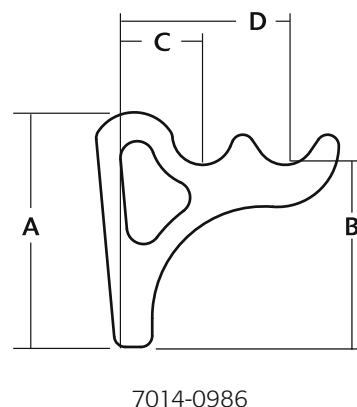


Wehrs II Incus-Stapes Prostheses, Double Notch

Hydroxylapatite

The Wehrs II features a cut-out in the head of the prosthesis which adds increased strength and handling characteristics.

Catalog Number	Description	Dimensions			
		A	B	C	D
7014-0986	0.9mm, Short	5.3mm	4.1mm	1.6mm	3.5mm
7014-0987	0.9mm, Average	6.3mm	5.2mm	1.6mm	3.5mm
7014-0988	0.9mm, Medium	7.3mm	6.1mm	1.6mm	3.5mm
7014-0989	0.9mm, Long	10.2mm	9.0mm	1.6mm	3.5mm

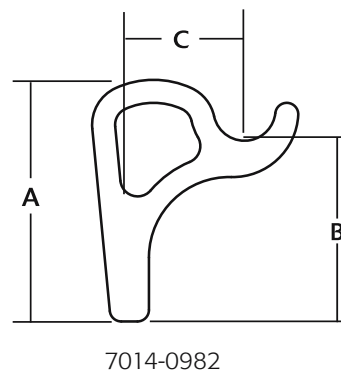


Wehrs II Incus-Stapes Prostheses, Single Notch

Hydroxylapatite

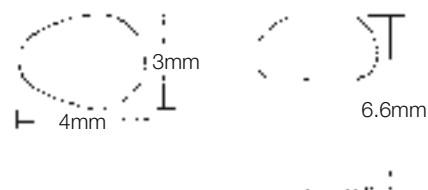
The Wehrs II features a cut-out in the head of the prosthesis which adds increased strength and handling characteristics.

Catalog Number	Description	Dimensions		
		A	B	C
7014-0982	0.9mm, Short	5.3mm	4.1mm	2.5mm
7014-0983	0.9mm, Average	6.3mm	5.2mm	2.5mm
7014-0984	0.9mm, Medium	7.3mm	6.1mm	2.5mm
7014-0985	0.9mm, Long	10.2mm	9.0mm	2.5mm



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.



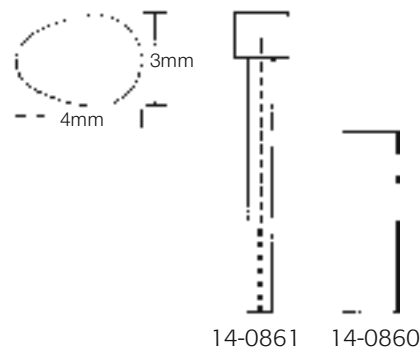
14-0859

Catalog Number	Material	Cannulated	Head Diameter	Overall Length
14-0859	Hydroxylapatite/Plasti-Pore™	Partially, 1.15mm	4 x 3mm	6.6mm
14-0857	Hydroxylapatite/Fluoroplastic	Partially, 1.15mm	4 x 3mm	6.6mm

As developed in conjunction 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.



14-0861 14-0860

Catalog Number	Description	Material	PORP Type Shaft Diameter	TORP Type Shaft Diameter	Total Length (PORP/ TORP)
14-0861	4 x 3mm Head	Hydroxylapatite/Fluoroplastic	1.15mm	0.8mm (wire)	6mm / 9.5mm
14-0860	4 x 3mm Head	Hydroxylapatite/Fluoroplastic	1.15mm	0.8mm	6mm / 9.5mm

Requires O.R. assembly, only one shaft is actually used.

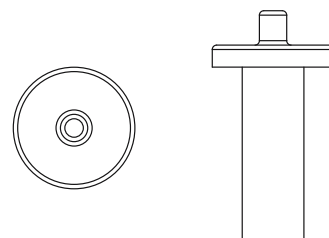
U.S. Patent Nos. 4,597,764; D286,909; D286,910.

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.

CAP PORP™ Prosthesis

Cartilage attached prosthesis.

Catalog Number	Material	Cannulated	Dimensions	Functional Length
7014-5899	Hydroxylapatite Head/ Hapex™ Shaft	Partially, 1.17mm	3.5mm	9mm



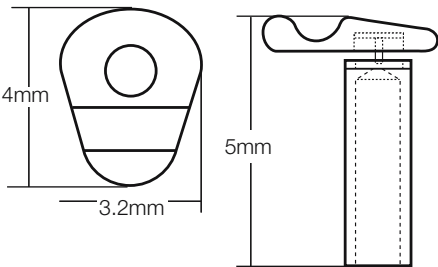
7014-5899

Developed in conjunction with David C. Kelsall, M.D., Denver, CO.

Dornhoffer Malleable PORP™ Prosthesis

Catalog Number	Material	Cannulated	Dimensions	Overall Length
7014-5842	Hydroxylapatite Head/Hapex Shaft	Partially, 1mm	4 x 3.2mm	5mm

Designed for John Dornhoffer, M.D., Little Rock, AR.



7014-5842

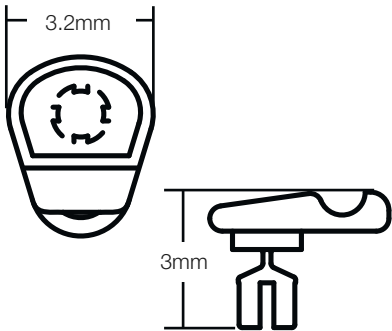
Dornhoffer Interpositional PORP™ Prosthesis

Hydroxylapatite/Titanium

The titanium cradle provides added stability as it locks onto the stapes superstructure. The notch in the hydroxylapatite head accommodates the malleus.

Catalog Number	Material	Head Diameter	Functional Length with Cradle	Overall Length
7014-1014	Hydroxylapatite Head/Titanium Shaft	3.2mm	2.0mm	3mm

Designed for John Dornhoffer, M.D., Little Rock, AR.





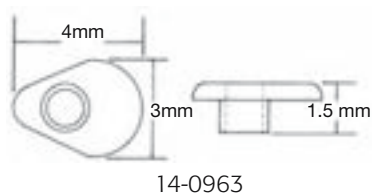
Drum-to-Stapes Prosthesis PORP™

Plasti-Pore™

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.

Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0059	Partially, 1.17mm	4mm	4.75mm

Designed for Ralph J. Caparosa, M.D., Pittsburgh, PA.



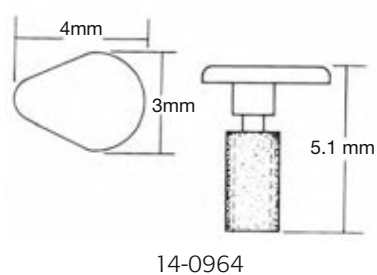
Goldenberg Cap Prosthesis

Hydroxylapatite

Dense hydroxylapatite cap sold separately, to be used in shallow middle ear spaces.

Catalog Number	Cannulated	Overall Length
14-0963	Fully	1.5mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



Goldenberg Malleable PORP™ Prosthesis

Hydroxylapatite/Plasti-Pore™

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.

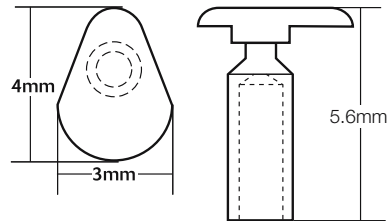
Catalog Number	Cannulated	Overall Length
14-0964	Partially	5.1mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.

Goldenberg Malleable PORP™ Prosthesis
 Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Dimensions	Overall Length
7014-5964	Fully, 1.17mm	4x3mm	5.6mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



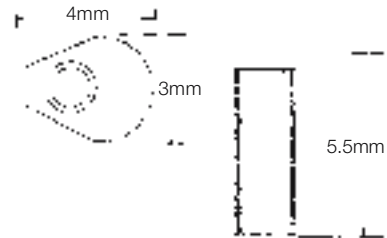
7014-5964

Goldenberg PORP™ Prosthesis
 Hydroxylapatite/Plasti-Pore™

Wedge-shaped hydroxylapatite head conforms to tympanic membrane and is cannulated to visualize the stapes capitulum. Plasti-Pore shaft is trimmable and can be notched for stapedius tendon.

Catalog Number	Cannulated	Head Dimensions	Overall Length
14-0916	Fully, 1.14mm	4x3mm	5.5mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.

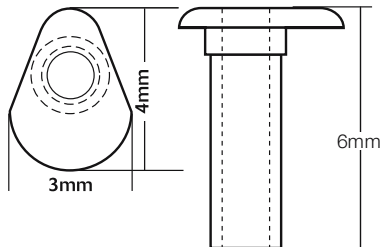


14-0916

Goldenberg PORP™ Prosthesis
 Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Dimensions	Functional Length
7014-5916	Fully, 1.17mm	4x3mm	6mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



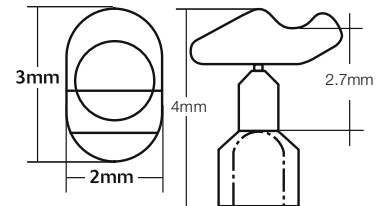
7014-5916

Haberman PORP™ Prosthesis
 Hydroxylapatite Head/HAPEX™ Shaft

Slim design enhances visualization. Notched shaft accommodates stapes crura. Head designed with groove to accommodate malleus.

Catalog Number	Description	Cannulated	Functional Length
7014-5871	Notched for Stapes Crura	Partially, 1mm	2.7mm

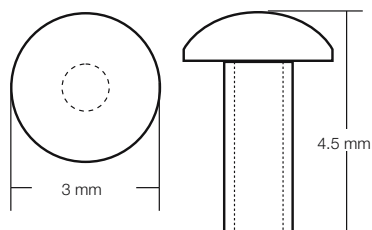
As developed in conjunction with Rex Haberman, M.D., St. Paul, MN.



7014-5871

Kartush PORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft



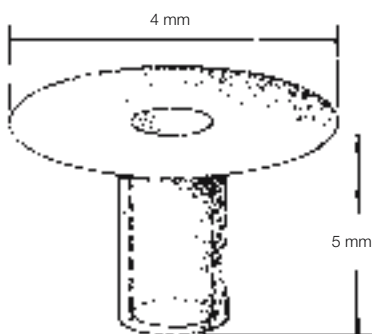
7014-5840

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-5840	Partially, 1.17mm	3mm	4.5mm

Designed for Jack Kartush, M.D., Michigan Ear Institute

Modified PORP™ Prosthesis

Plasti-Pore™



14-0084

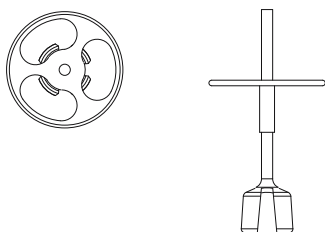
The modified partial ossicular replacement prosthesis (PORP™) features a cannulation of the prosthesis stem which offers the surgeon visibility of the superstructure of the stapes during the entire surgical procedure. Made of Plasti-Pore™ material, a porous high-density polyethylene which is well-tolerated 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.

Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0084	Fully, 1.17mm	4mm	5mm

Designed for Leslie J. Block, M.D., Chicago, IL

Micron™ Adjustable Titanium PORP™ Prosthesis

Titanium



7014-1046

The Micron™ Adjustable Titanium PORP™ features a large open-head design for good visualization. Its adjustable nature allows for minimal stocking levels.

Catalog Number	Description	Dimensions
7014-1046	Centered	2-5mm
7014-1047	Off-Centered	2-5mm

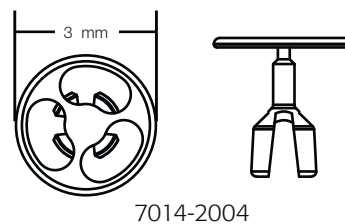
Catalog Number	Description (May Be Used with Above Products)
7013-5802	Micron Titanium Adjustable Sizing Block
55-0108	Ryder Needle Holder (Implant Crimper)
7013-2120	Complete PORP/TORP Trial Set including Sterilization Case

Micron™ All Titanium Monolithic PORP™

Titanium

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.

Catalog Number	Description	Functional Length	Cradle Functional Diameter	Head Diameter
7014-2036	Centered, Tilttable Head	1.5mm	1mm	3mm
7014-2004	Centered, Tilttable Head	2mm	1mm	3mm
7014-2028	Centered, Tilttable Head	2.5mm	1mm	3mm
7014-2005	Centered, Tilttable Head	3mm	1mm	3mm
7014-2029	Centered, Tilttable Head	3.5mm	1mm	3mm
7014-2006	Centered, Tilttable Head	4mm	1mm	3mm
7014-2007	Off-Centered, Tilttable Head	2mm	1mm	3mm
7014-2030	Off-Centered, Tilttable Head	2.5mm	1mm	3mm
7014-2008	Off-Centered, Tilttable Head	3mm	1mm	3mm
7014-2031	Off-Centered, Tilttable Head	3.5mm	1mm	3mm
7014-2009	Off-Centered, Tilttable Head	4mm	1mm	3mm

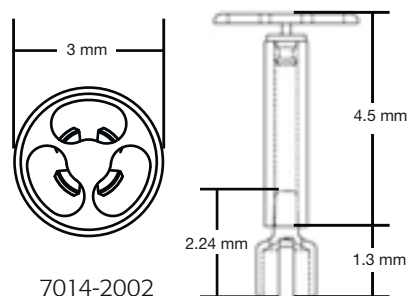


Micron™ Titanium PORP™ With Cradle

Titanium/Hapex

Tilttable titanium head and cradle with trimmable Hapex™ shaft.

Catalog Number	Description	Functional Length	Overall Length	Head Diameter
7014-2002	Centered, Tilttable Head	4.8mm	5.8mm	3mm
7014-2003	Off-Centered, Tilttable Head	4.8mm	5.8mm	3mm



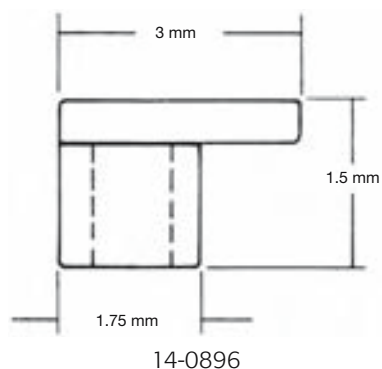
Off-Centered Cap Prosthesis

Hydroxylapatite

An off-centered version of the Shea Cap Prosthesis, used when anatomy does not permit a direct reconstruction.

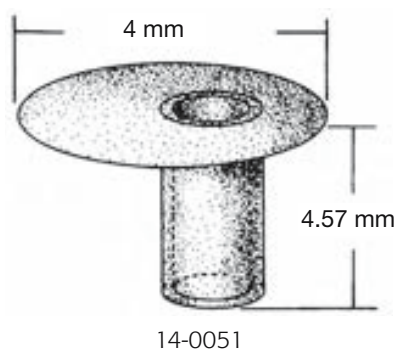
Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0896	Partially, 1mm	3mm	1.5mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.



Prostheses

(cont.)

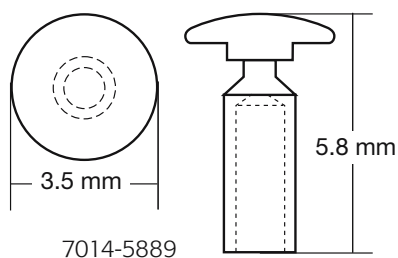


Off-Centered PORP™ Prosthesis

Plasti-Pore

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. The implant is made of Plasti-Pore™ material, a porous, high-density polyethylene which is well-tolerated in the body. The implant may be trimmed as desired.

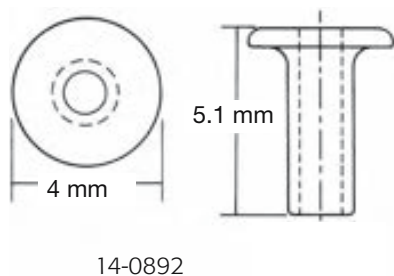
Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0051	Fully, 1.17mm	4mm	4.57mm



Richards Centered Malleable PORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-5889	Partially, 1.17mm	3.5mm	5.8mm

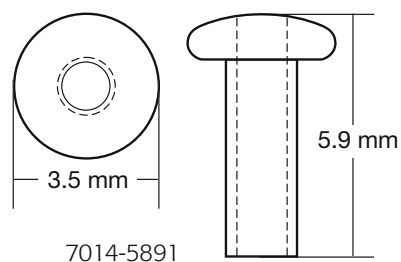


Richards Centered PORP™ Prosthesis

Hydroxylapatite

Fully cannulated hydroxylapatite partial ossicular replacement prosthesis.

Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0892	Fully, 1.17mm	4mm	5.1mm



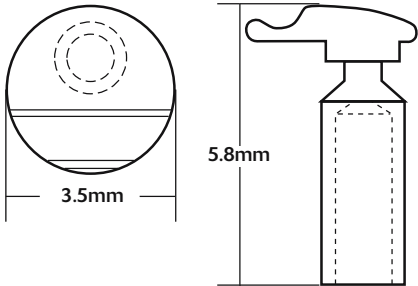
Richards Centered PORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-5891	Fully, 1.17mm	3.5mm	5.9mm

Richards Off-Centered Malleable PORP™ Prosthesis
 Hydroxylapatite Head/HAPEX™ Shaft

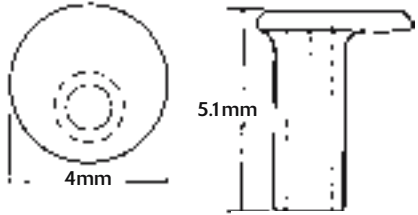
Catalog Number	Cannulated	Head Diameter	Functional Length
7014-5892	Partially, 1.17mm	3.5mm	5.8mm



7014-5892

Richards Off-Centered PORP™ Prosthesis
 Hydroxylapatite

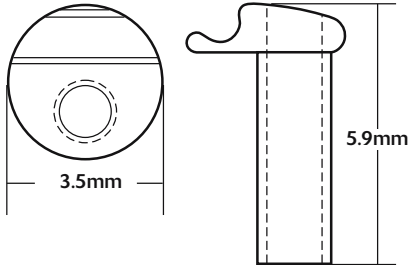
Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0893	Fully, 1.17mm	4mm	5.1mm



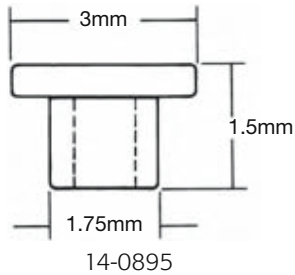
14-0893

Richards Off-Centered PORP™ Prosthesis
 Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-5893	Fully, 1.17mm	3.5mm	5.9mm



7014-5893



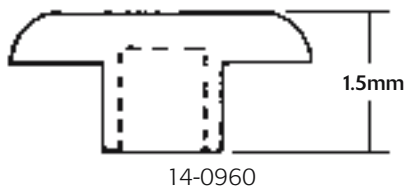
Shea Cap Prosthesis

Hydroxylapatite

This versatile prosthesis functions as a short PORP™-type prosthesis, or can be used in conjunction with other available implants or materials to bridge ossicular defects.

Catalog Number	Cannulated	Base Diameter	Flange Diameter	Overall Length
14-0895	Partially, 1mm	1.75mm	3mm	1.5mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.



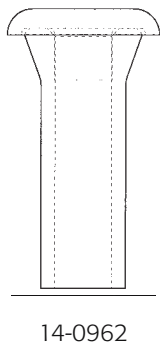
Shea Cap Prosthesis

Hydroxylapatite

Dense hydroxylapatite cap sold separately to be used in shallow middle ear spaces. Cannulated to accommodate stapes capitulum.

Catalog Number	Cannulated	Head Diameter	Overall Length
14-0960	Partially, 1mm	3mm	1.5mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.



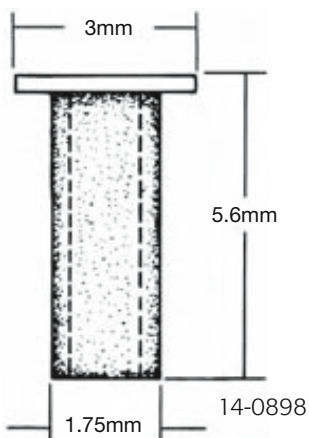
Shea HA/FP Prosthesis

Hydroxylapatite/Fluoroplastic

Designed to minimize extrusion by rounding edges of hydroxylapatite head. Fluoroplastic cannulated shafts can be trimmed to size, reducing inventory needs.

Catalog Number	Cannulated	Head Diameter	Overall Length
14-0962	Partially, 1.14mm	3mm	5.4mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.



Shea PORP™ Prosthesis

Hydroxylapatite/Plasti-Pore™

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.

Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0898	Partially, 1.17mm	3mm	5.6mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.

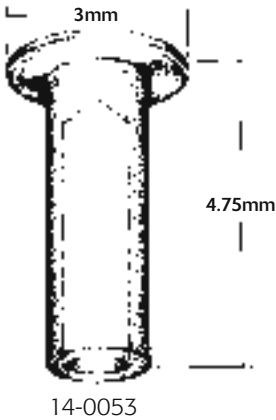
Sheehy Modified PORP™ Prosthesis

Plasti-Pore™

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.

Catalog Number	Cannulated	Flange Diameter	Overall Length
14-0053	Partially, 1.17mm	3mm	4.75mm

Designed for James Sheehy, M.D., Los Angeles, CA.

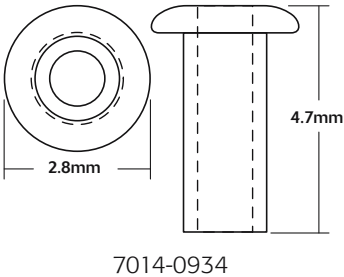


Sheehy PORP™ Prosthesis

Plasti-Pore™

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-0934	Fully, 1.12mm	2.8mm	4.7mm

Designed for James Sheehy, M.D., Los Angeles, CA.

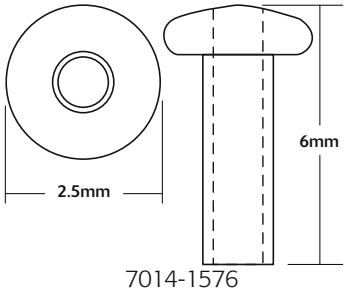


Strasnick PORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Cannulated	Head Diameter	Functional Length
7014-1576	Fully, 1.17mm	2.5mm	6mm, Trimmable

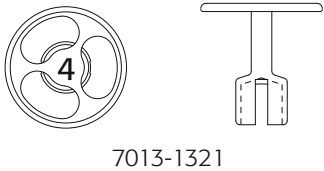
Designed for Barry Strasnick, M.D., Norfolk, VA.

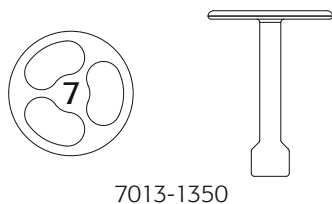


PORP™ Trials

The intraoperative measuring devices assist the surgeon in determining the appropriate implant

Catalog Number	Functional Length
7013-1321	2mm
7013-1322	3mm
7013-1323	4mm



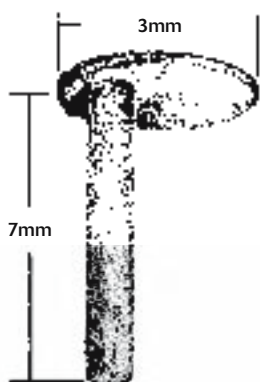


7013-1350

Ossicular Replacement Prosthesis Measuring TORP™ Trials

Catalog Number	Overall Length
7013-1350	4mm
7013-1352	5mm
7013-1354	6mm
7013-1356	7mm

Catalog Number	Description (May Be Used with Above Products)
7013-2120	Complete PORP/TORP Trial set including Sterilization Case
7013-5060	Sterilization Case



14-0063

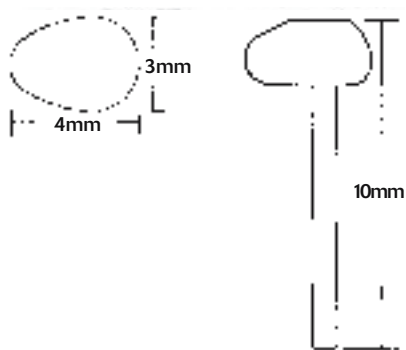
Austin Modified Off-Centered TORP™ Prosthesis

Plasti-Pore™

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.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0063	3mm	1mm	7mm

Designed for David F. Austin, M.D., Iowa City, Iowa.



14-0858

Black Oval-Top TORP™ Prostheses

Hydroxylapatite/Plasti-Pore™ or Hydroxylapatite/Fluoroplastic

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.

Catalog Number	Material	Flange Diameter	Shaft Diameter	Overall Length
14-0858	Hydroxylapatite Head/Plasti-Pore™ Shaft	4mm	0.8mm	10mm
14-0856	Hydroxylapatite Head/Fluoroplastic Shaft	4mm	0.8mm	10mm

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.

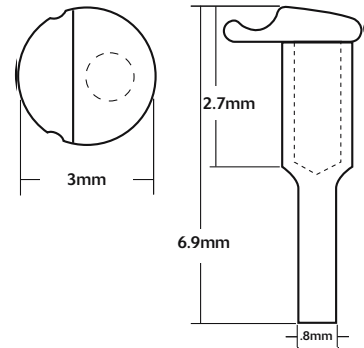
Bojrab Universal Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Partially cannulated shaft allows usage as TORP™ or PORP™. Notch in head accommodates mal-

Catalog Number	Description	Head Diameter	Functional Length	Overall Length
7014-5844	Combination Interpositional TORP™, PORP™, Partially Cannulated 1mm, Diameter of Base of Shaft: 0.8mm	3mm	TORP 6.9mm, PORP 2.7mm	6.9mm

Designed for Dennis Bojrab, M.D., Michigan Ear Institute.



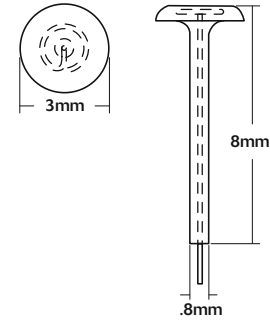
7014-5844

Brackman Modified TORP™ Prosthesis

Plasti-Pore™/Wire

Catalog Number	Head Diameter	Shaft Diameter	Functional Length
7014-0563	3mm	0.8mm	8mm Trimmable

Designed for Daryl Brackman, M.D., Los Angeles, CA.



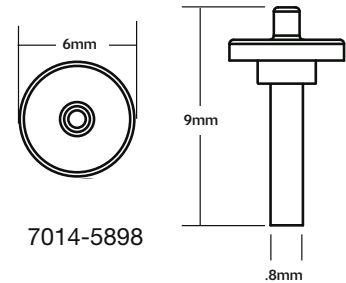
7014-0563

CAP TORP™

Hydroxylapatite/HAPEX™

Catalog Number	Overall Length	Head Diameter	Shaft Diameter
7014-5898	9mm	3.5mm	0.8mm

Designed in conjunction with David Kelsall, M.D., Denver, CO.



7014-5898

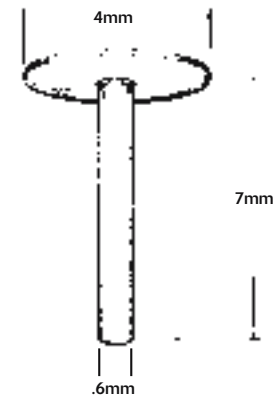
Causse Modified TORP™ Prosthesis

Plasti-Pore™

Same unique features as the standard Plasti-Pore™ TORP™ but with a smaller diameter (0.6mm) shaft. The smaller shaft makes positioning of the implant easier when obstructions are present.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0057	4mm	0.6mm	7mm

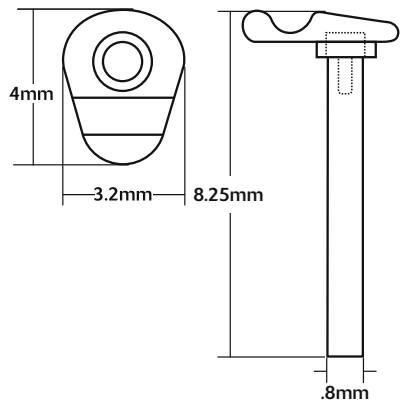
Designed for Jean-Bernard Causse, M.D., Béziers, France.



14-0057

Prostheses

(cont.)

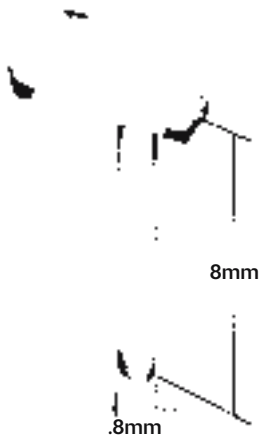


7014-5843

Dornhoffer Malleable TORP™ Prosthesis
Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Head Diameter	Shaft Diameter	Functional Length
7014-5843	4mm x 3.2mm	0.8mm	8.25mm Trimmable

Designed for John Dornhoffer, M.D., Little Rock, AR.



14-0087

Fisch-Type TORP™ Prosthesis
Plasti-Pore™

This L-shaped modification of the TORP™ implant offers 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.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0087	4mm	0.8mm	8mm

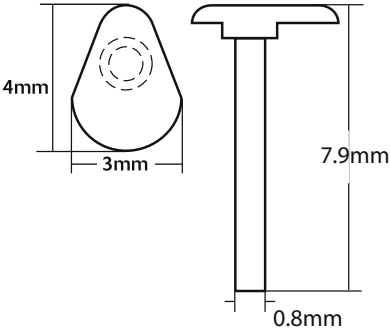
Designed for Ugo Fisch, M.D., Zurich, Switzerland.

Goldenberg Malleable TORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Head Diameter	Shaft Diameter	Overall Length
7014-5917	3mm x 4mm	0.8mm	7.9mm

Designed for Robert Goldenberg, M.D., Dayton, OH.



7014-5917

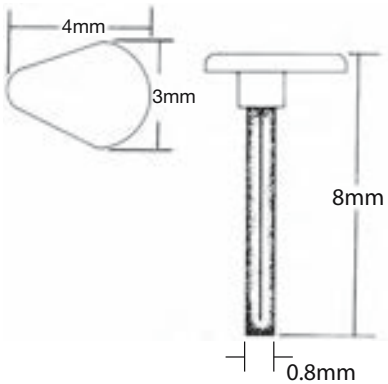
Goldenberg TORP™ Prosthesis

Hydroxylapatite/Plasti-Pore™

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.

Catalog Number	Shaft Diameter	Overall Length
14-0917	0.8mm	8mm

As developed in conjunction with Robert Goldenberg, M.D., Dayton, OH.



14-0917

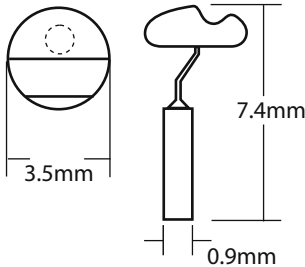
Haberman TORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

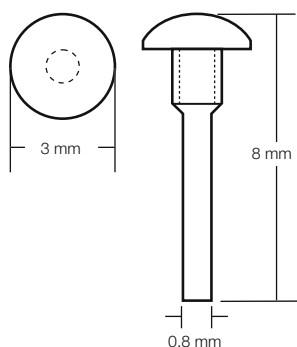
Slim, wire portion of the shaft enhances visualization. HAPEX™ portion can be trimmed to the desired length.

Catalog Number	Head Diameter	Shaft Diameter	Functional Length
7014-5870	3.5mm	0.9mm	7.4mm

Designed for Rex Haberman, M.D., St. Paul, MN.



7014-5870



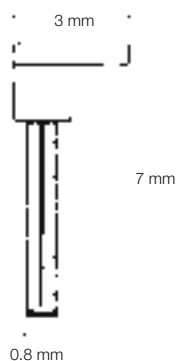
7014-5841

Kartush TORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Head Diameter	Shaft Diameter	Functional Length
7014-5841	3mm	0.8mm	8mm Trimable

Designed for Jack Kartush, M.D., Michigan Ear Institute.



14-0897

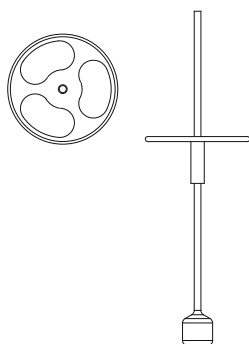
McGee Malleable TORP™ Prosthesis

Hydroxylapatite/Plasti-Pore™

This updated off-centered variety of TORP™ prostheses 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.

Catalog Number	Flange Diameter	Shaft Diameter	Trimable Length	Overall Length
14-0897	3mm	0.8mm	2mm	7mm

Developed in conjunction with T. Manford McGee, M.D., Michigan Ear Institute, Detroit, MI.



7014-1044

Micron™ Adjustable Titanium TORP™ Prosthesis

Titanium

The Micron™ Adjustable Titanium TORP™ features an open-head design for optimal visualization. Its adjustable nature allows for minimal stocking levels.

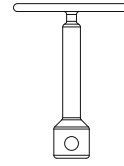
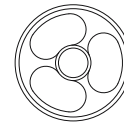
Catalog Number	Description	Dimensions
7014-1044	Centered	2-10mm
7014-1045	Off-Centered	2-10mm

Catalog Number	Description (May Be Used with Above Products)
7013-5802	Sizing Block
55-0108	Ryder Needle Holder (Implant Crimper)
7013-2120	Complete PORP / TORP Trial Set including Sterilization Case

Micron™ All Titanium Monolithic TORP™

Titanium

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.



7014-2010

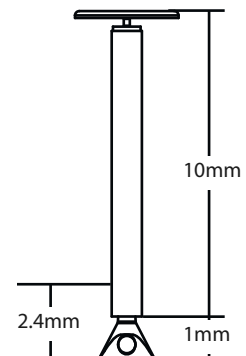
Catalog Number	Description	Overall Length	Round Footplate Shoe Diameter	Head Diameter
7014-2032	Centered, Tilttable Head	2mm	0.9mm	3mm
7014-2033	Centered, Tilttable Head	2.5mm	0.9mm	3mm
7014-2034	Centered, Tilttable Head	3mm	0.9mm	3mm
7014-2035	Centered, Tilttable Head	3.5mm	0.9mm	3mm
7014-2010	Centered, Tilttable Head	4mm	0.9mm	3mm
7014-2011	Centered, Tilttable Head	4.5mm	0.9mm	3mm
7014-2012	Centered, Tilttable Head	5mm	0.9mm	3mm
7014-2013	Centered, Tilttable Head	5.5mm	0.9mm	3mm
7014-2014	Centered, Tilttable Head	6mm	0.9mm	3mm
7014-2015	Centered, Tilttable Head	6.5mm	0.9mm	3mm
7014-2016	Centered, Tilttable Head	7mm	0.9mm	3mm
7014-2017	Centered, Tilttable Head	7.5mm	0.9mm	3mm
7014-2018	Centered, Tilttable Head	8mm	0.9mm	3mm
7014-2019	Off-Centered, Tilttable Head	4mm	0.9mm	3mm
7014-2020	Off-Centered, Tilttable Head	4.5mm	0.9mm	3mm
7014-2021	Off-Centered, Tilttable Head	5mm	0.9mm	3mm
7014-2022	Off-Centered, Tilttable Head	5.5mm	0.9mm	3mm
7014-2023	Off-Centered, Tilttable Head	6mm	0.9mm	3mm
7014-2024	Off-Centered, Tilttable Head	6.5mm	0.9mm	3mm
7014-2025	Off-Centered, Tilttable Head	7mm	0.9mm	3mm
7014-2026	Off-Centered, Tilttable Head	7.5mm	0.9mm	3mm
7014-2027	Off-Centered, Tilttable Head	8mm	0.9mm	3mm

Micron™ Titanium TORP™ With Shoe

Titanium/Hapex™

Tilttable titanium head and shoe with trimmable HAPEX™ shaft.

Catalog Number	Description	Overall Length	Head Diameter	Shaft Diameter	Shoe Diameter
7014-2000	Centered, Tilttable Head	10mm + 1mm when shoe is attached	3mm	0.9mm	0.9x1.16mm
7014-2001	Off-Centered, Tilttable Head	10mm + 1mm when shoe is attached	3mm	0.9mm	0.9x1.16mm



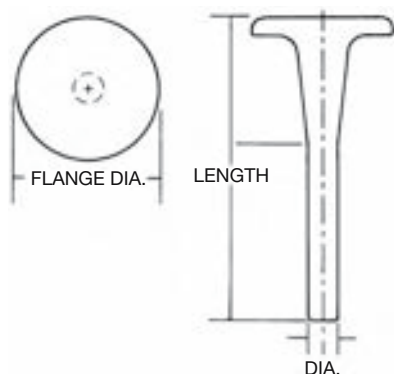
7014-2000

Prostheses

(cont.)

Richards Centered TORP™ Prostheses

Hydroxylapatite

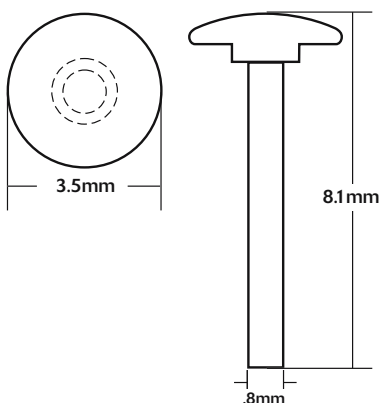


14-0886

Catalog Number	Flange Diameter	Shaft Diameter	Head Width	Trimmable Length	Overall Length
14-0886	4mm	0.84mm	4mm	1.65mm	4mm
14-0887	4mm	0.84mm	4mm	3.67mm	6mm
14-0888	4mm	0.84mm	4mm	5.7mm	8mm

Richards Centered TORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

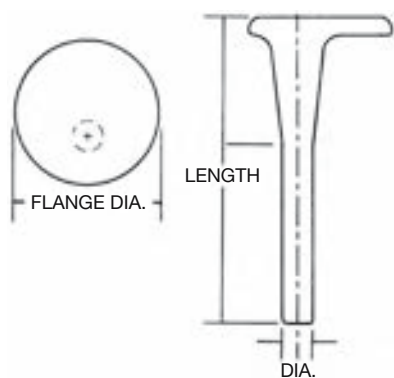


7014-5888

Catalog Number	Shaft Diameter	Head Diameter	Functional Length
7014-5888	0.8mm	3.5mm	8.1mm Trimmable

Richards Off-Centered TORP™ Prostheses

Hydroxylapatite



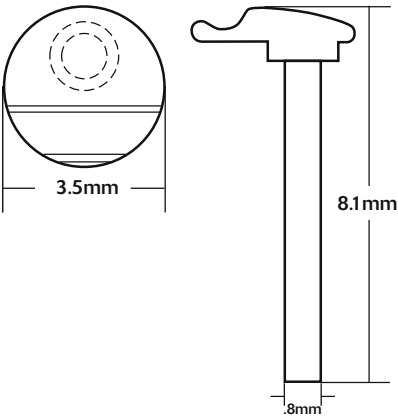
14-0889

Catalog Number	Flange Diameter	Shaft Diameter	Head Width	Trimmable Length	Overall Length
14-0889	4mm	0.84mm	4mm	1.65mm	4mm
14-0890	4mm	0.84mm	4mm	3.67mm	6mm
14-0891	4mm	0.84mm	4mm	5.7mm	8mm

Richards Off-Centered TORP™ Prosthesis

Hydroxylapatite Head/HAPEX™ Shaft

Catalog Number	Head Diameter	Shaft Diameter	Functional Length
7014-5890	3.5 mm,Notched	0.8mm	8.1 mm Trimmable



7014-5890

Shea HA/FP TORP™ Prosthesis

Hydroxylapatite/Fluoroplastic

Designed to minimize extrusion by rounding edges of hydroxylapatite head. Easily trimmable fluoroplastic shaft reduces O.R. inventory needs.

Catalog Number	Head Diameter	Overall Length
14-0961	3 mm	10 mm Trimmable



10mm

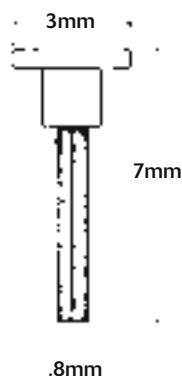


14-0961

Developed in conjunction with John J. Shea, M.D., Memphis, TN.

Prostheses

(cont.)



14-0894

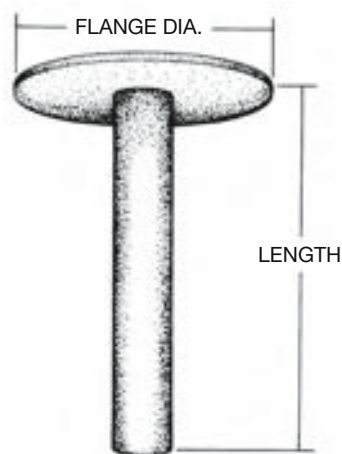
Shea Malleable TORP™ Prosthesis

Hydroxylapatite/Plasti-Pore™

This updated version of the popular 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.

Catalog Number	Flange Diameter	Shaft Diameter	Trimable Length	Overall Length
14-0894	3mm	0.8mm	2mm	7mm

As developed in conjunction with John J. Shea, M.D., Memphis, TN.



14-0901

Shea TORP™ Prostheses

Plasti-Pore™

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.

0.25mm (0.010") Flange Thickness

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0901	4mm	0.85mm	4mm
14-0902	4mm	0.85mm	5mm
14-0903	4mm	0.85mm	6mm
14-0904	4mm	0.85mm	7mm
14-0905	4mm	0.85mm	8mm
14-0907	4mm	1mm	4mm
14-0908	4mm	1mm	5mm
14-0909	4mm	1mm	6mm
14-0058	4mm	1mm	7mm
14-0911	4mm	1mm	8mm

Designed for John J. Shea, M.D., Memphis, TN.

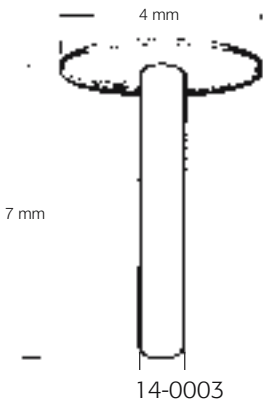
Shea TORP™ Prosthesis

Plasti-Pore™/Fluoroplastic

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.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0003	4mm	1mm	7mm

Designed for John J. Shea, M.D., Memphis, TN.



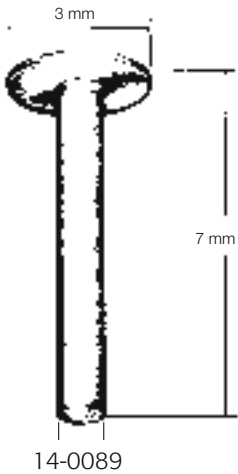
Sheehy Modified TORP™ Prosthesis

Plasti-Pore™

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.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0089	3mm	1mm	7mm

Designed for James Sheehy, M.D., Los Angeles, CA.

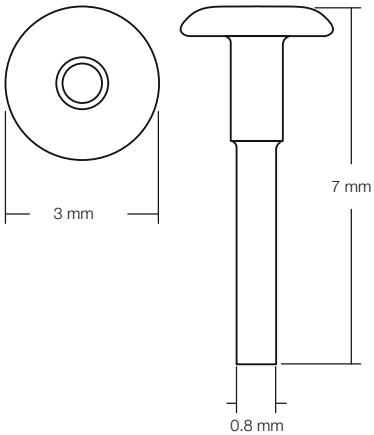


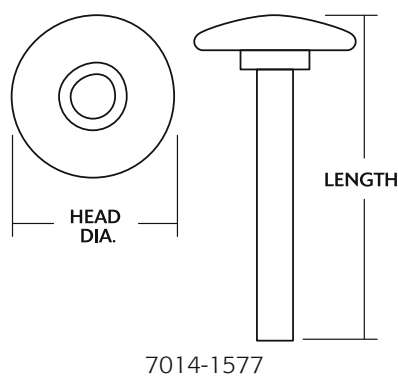
Sheehy TORP™ (Improved) Prosthesis

Plasti-Pore™

Catalog Number	Head Diameter	Shaft Diameter	Overall Length
7014-0933	3mm	0.8mm	7mm

Designed for James Sheehy, M.D., Los Angeles, CA.

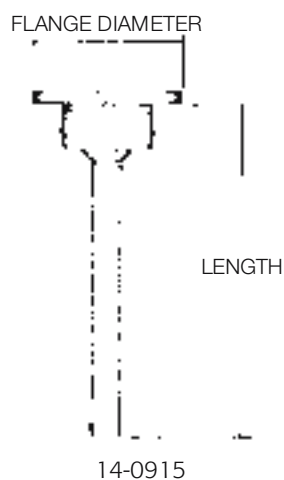




Strasnick TORP™ Prosthesis

Hydroxylapatite/HAPEX™

Catalog Number	Description	Head Diameter	Functional Length
7014-1577	Malleable Head	2.5mm	8mm, Trimmable



Tilt-Top TORP™ Prosthesis

Plasti-Pore™

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. Thus, 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 then inserted in the manner used with a regular TORP™ prosthesis.

Catalog Number	Flange Diameter	Shaft Diameter	Overall Length
14-0915	4mm	0.8mm	9mm

Mastoidectomy

Hydroxylapatite Accessories

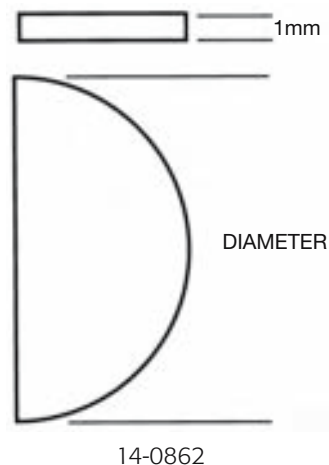
Attic Defect Plates

Porous Hydroxylapatite

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. They are offered in 3 sizes, to accommodate individual patient needs.

Catalog Number	Description	Diameter	Thickness
14-0862	Small	7mm	1mm
14-0863	Medium	10mm	1mm
14-0864	Large	14mm	1mm

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.



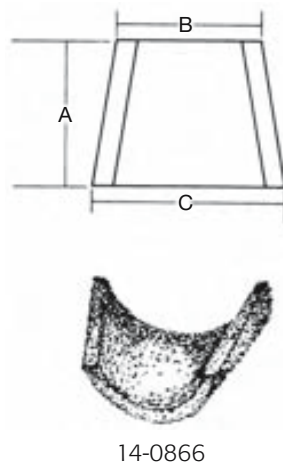
Grote Canal Wall Prostheses

Porous Hydroxylapatite

The Grote Canal Wall Prosthesis is designed for the reconstruction of the posterior bony ear canal wall. The prosthesis is available in three sizes to better fit individual patient needs. It can also be shaped using an appropriate diamond burr and irrigation.

Catalog Number	Description	Dimensions		
		A	B	C
14-0866	Small	13mm	12mm	16mm
14-0867	Medium	14mm	13mm	18mm
14-0868	Large	16mm	15mm	20mm

Designed by Jan J. Grote, M.D., Leiden, The Netherlands.



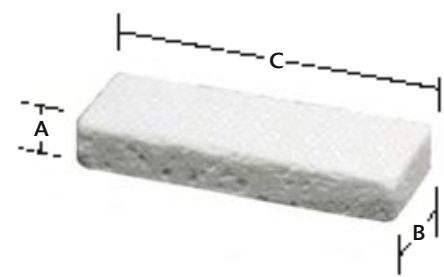
Porous Hydroxylapatite Reconstruction Blocks

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.

Pore Size Range: 150 to 350 microns.

Porosity Range: 15 to 30%

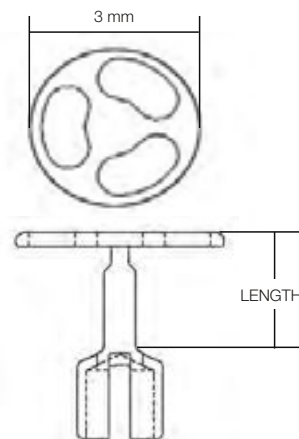
Catalog Number	Description	Dimensions		
		A	B	C
14-0871	Small Porous Block	5mm	10mm	30mm
14-0872	Medium Porous Block	10mm	10mm	30mm
14-0873	Large Porous Block	20mm	20mm	30mm



Ossicular Replacement Prosthesis Measuring PORP Trials

Stainless Steel. Not for Implantation. Used for Customized Sizing.

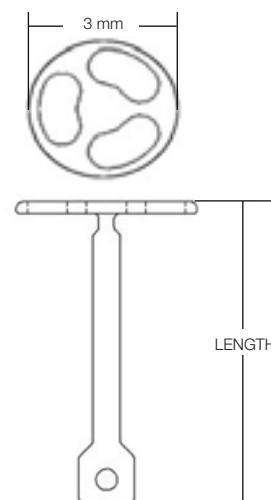
Catalog Number	Functional Length
7013-1321	2mm
7013-1322	3mm
7013-1323	4mm



Ossicular Replacement Prosthesis Measuring TORP Trials

Stainless Steel. Not for Implantation. Used for Customized Sizing.

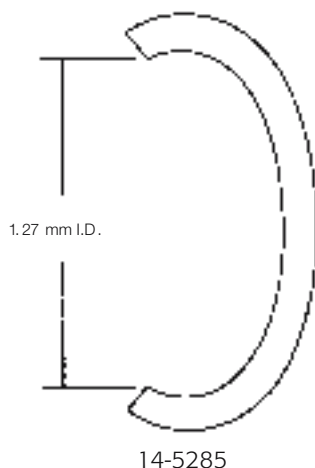
Catalog Number	Functional Length
7013-1350	4mm
7013-1352	5mm
7013-1354	6mm
7013-1356	7mm



Ossicular Replacement Prosthesis Measuring Trials Accessories

Stainless Steel. Not for Implantation. Used for Customized Sizing.

Catalog Number	Description
7013-2120	Complete PORP/TORP Trial Set including Sterilization Case
7013-5060	Sterilization Case
7013-5801	Universal Cutting Block designed for use with Hapex shafts
7013-5802	Micron Titanium Adjustable Sizing Block
550108	Ryder Needle Holder



Williams Microclips

Stainless Steel

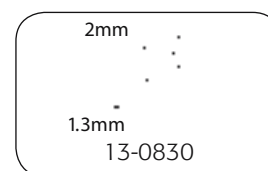
The Williams Microclip offers another method for holding the tympanic graft securely in position. The microclip offers the following advantages:

1. Reduces the possibility of dislodging the positioned anterior graft segment.
2. Allows the surgeon to fasten down the graft in stages, one area at a time.
3. Assures the surgeon that the graft remains securely in position even when visibility is obscured during placement of packing material.

Sold three per sterile pack.

Catalog Number	Name	Description	I.D.	Wire Diameter	Units per Package
14-5285	Microclip		1.27mm	0.13mm	3
13-0830	Microclip Inserter	Forceps, 1.27mm Serrated Jaw			

Designed for J. David Williams, M.D., Anchorage, Alaska.



7014-3266

13-0725



OtoMimix®

The 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 tetra-calcium phosphate and the liquid component is a dilute citric acid.

Indications for use of OtoMimix include the following:

- 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.

Catalog Number	Description	Units per Package
7014-3266	OtoMimix - 2 gram	1
13-0725	Rosen Needle, Sharp	6
13-0726	Rosen Needle, Dull	6

Gyrus ACMI Otologic implants are MR conditional to 3T*
Data on file*

14-5285
13-0830
7014-3266
13-0725
13-0726

Contents

Pistons.....STP-105
STP-110
STP-115
STP-120
STP-125

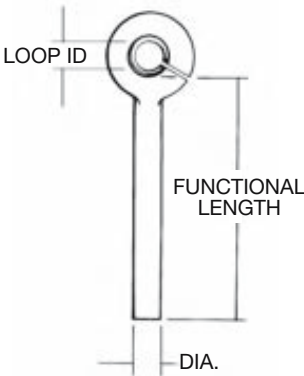
SMart Pistons STP-130

Loops STP-135

Malleus Attached Pistons.....STP-140

Cupped Pistons.....STP-205
STP-210
STP-215

Pistons



14-0457

Causse Piston

Fluoroplastic

Loop is expanded with a pick to slip over the incus with smooth jaw alligator forceps. "Plastic memory" provides secure closure.

Catalog Number	Piston Diameter	Loop I.D.	Functional Length
14-0457	0.4mm	0.6mm	6mm

As developed in conjunction with Jean-Bernard Causse, M.D., Béziers, France.

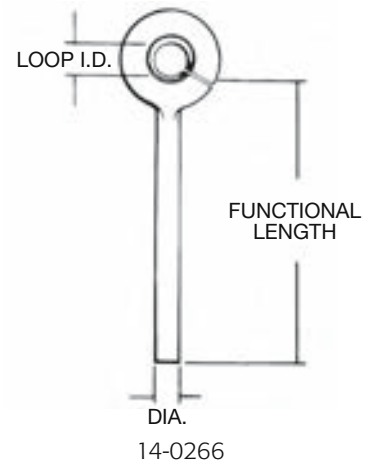
Cawthorne Pistons

Fluoroplastic

Incus attachment with a very slim 0.30mm (0.012") diameter shaft.

Catalog Number	Piston Diameter	Loop I.D.	Functional Length
14-0266	0.3mm	0.8mm	4.5mm
14-0268	0.3mm	0.8mm	5mm

Designed for Sir Terrence Cawthorne, London, England.



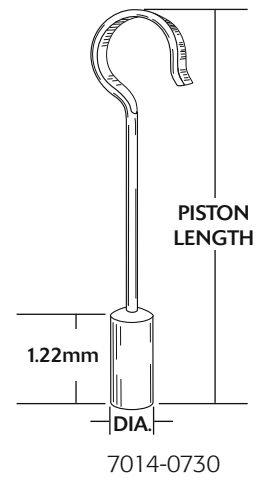
De La Cruz Pistons

Platinum Ribbon/Fluoroplastic Shaft

Shortened Fluoroplastic Shaft offers improved visibility during placement.

Catalog Number	Piston Diameter	Piston Length
7014-0730	0.6mm	3.5mm
7014-0731	0.6mm	3.75mm
7014-0732	0.6mm	4mm
7014-0733	0.6mm	4.25mm
7014-0734	0.6mm	4.5mm
7014-0735	0.6mm	4.75mm
7014-0736	0.6mm	5mm

Designed for Antonio De La Cruz, M.D., Los Angeles, CA.



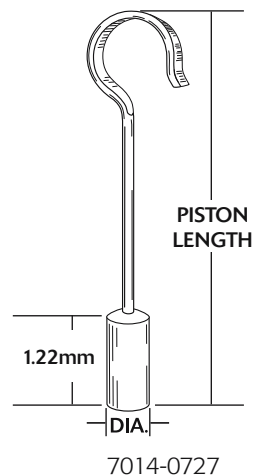
De La Cruz Pistons

Stainless Steel/Fluoroplastic Shaft

Shortened Fluoroplastic Shaft offers improved visibility during placement.

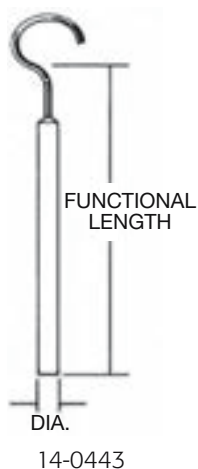
Catalog Number	Piston Diameter	Piston Length
7014-0727	0.6mm	4mm
7014-0728	0.6mm	4.25mm
7014-0729	0.6mm	4.5mm

Designed for Antonio De La Cruz, M.D., Los Angeles, CA.



Pistons

(cont.)



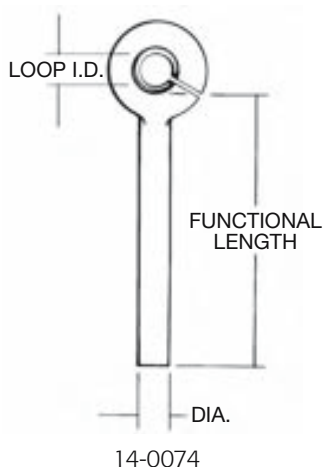
Fisch-Type Piston

Platinum/Fluoroplastic & Stainless Steel/Fluoroplastic

This adaptation of the piston prosthesis is designed for small fenestra techniques. The piston is available in a 6mm length which can be conveniently trimmed to 3.5mm using a sharp knife.

Catalog Number	Material	Piston Diameter	Functional Length
14-0443	Platinum/Fluoroplastic	0.4mm	6mm
14-0444	Stainless Steel/Fluoroplastic	0.4mm	6mm

Designed for Ugo Fisch, M.D., Zurich, Switzerland.



Fluoroplastic Pistons

Fluoroplastic

Loop is expanded with a pick to slip over the incus with smooth jaw alligator forceps. "Plastic memory" provides secure closure.

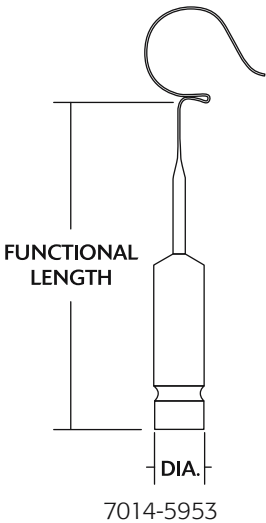
Catalog Number	Piston Diameter	Loop I.D.	Functional Length
14-0074	0.6mm	0.6mm	3.5mm
14-0076	0.6mm	0.6mm	4mm
14-0078	0.6mm	0.6mm	4.5mm
14-0080	0.6mm	0.6mm	5mm
14-0082	0.6mm	0.6mm	6mm
14-0066	0.8mm	0.6mm	4mm
14-0068	0.8mm	0.6mm	4.5mm
14-0070	0.8mm	0.6mm	5mm
14-0072	0.8mm	0.6mm	6mm
14-0456	0.6mm	0.8mm	6mm

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. 0.50mm hash mark assists in proper seating into stapedotomy.

Catalog Number	Description	Piston Diameter	Functional Length
7014-5953	Fluoroplastic/Platinum	0.6mm	5mm
7014-5950	Fluoroplastic/Platinum	0.6mm	4mm
7014-5951	Fluoroplastic/Platinum	0.6mm	4.25mm
7014-5952	Fluoroplastic/Platinum	0.6mm	4.5mm

Designed by Charles Mangham, M.D., Seattle, WA.

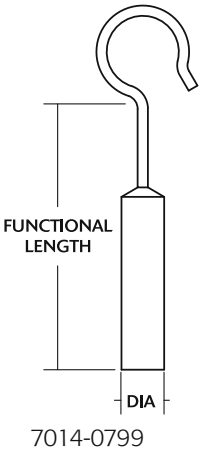


Mass Eye & Ear Piston

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.

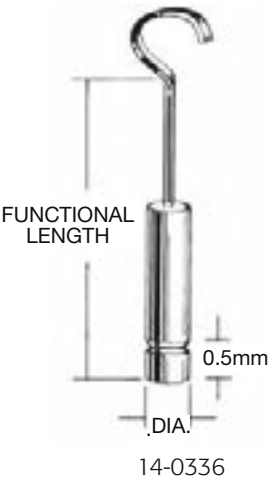
Catalog Number	Description	Piston Diameter	Functional Length
7014-0799	Fluoroplastic/Platinum	0.6mm	4mm
7014-0801	Fluoroplastic/Platinum	0.6mm	4.25mm
7014-0798	Fluoroplastic/Platinum	0.6mm	4.5mm

Designed by Michael J. McKenna, M.D., & Joseph B. Nadol, Jr., M.D., Boston, MA.



Pistons

(cont.)



McGee Pistons

Platinum/Stainless Steel

This improved version of the popular 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 0.5mm 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.

Catalog Number	Piston Diameter	Functional Length
14-0336	0.5mm	3.75mm
14-0337	0.5mm	4mm
14-0338	0.5mm	4.25mm
14-0339	0.5mm	4.5mm
14-0340	0.5mm	4.75mm
14-0341	0.5mm	5mm
14-0330	0.6mm	3.75mm
14-0331	0.6mm	4mm
14-0332	0.6mm	4.25mm
14-0333	0.6mm	4.5mm
14-0334	0.6mm	4.75mm
14-0335	0.6mm	5mm

Designed for T. Manford McGee, M.D., Detroit, MI.

McGee Pistons

Stainless Steel

Use for obliterative otosclerosis and in cases where the prognosis is poor if the classical fat-wire technique is used. One-piece construction.

Catalog Number	Piston Diameter	Functional Length
14-0161	0.6mm	3.25mm
14-0162	0.6mm	3.5mm
14-0163	0.6mm	3.75mm
14-0164	0.6mm	4mm
14-0165	0.6mm	4.25mm
14-0166	0.6mm	4.5mm
14-0167	0.6mm	4.75mm
14-0168	0.6mm	5mm
14-0143	0.8mm	3.75mm
14-0144	0.8mm	4mm
14-0145	0.8mm	4.25mm
14-0146	0.8mm	4.5mm
14-0147	0.8mm	4.75mm
14-0148	0.8mm	5mm
14-0149	0.8mm	5.25mm
14-0150	0.8mm	5.5mm

Designed for T. Manford McGee, M.D., Detroit, MI.



McGee Shepherd's Crook Pistons

Stainless Steel

Unique hook shape is easier to install over the incus by offering clearer visualization of closure.

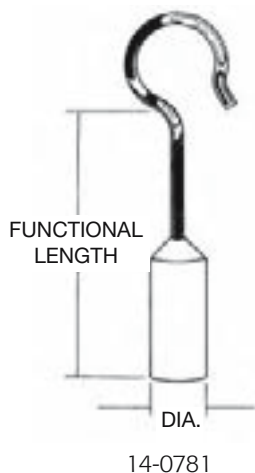
Catalog Number	Piston Diameter	Functional Length
14-0473	0.6mm	3.5mm
14-0475	0.6mm	4mm
14-0477	0.6mm	4.5mm
14-0479	0.6mm	5mm

Designed for T. Manford McGee, M.D., Detroit, MI.



Pistons

(cont.)



Richards Platinum Fluoroplastic Pistons

Platinum/Fluoroplastic

This design incorporates the popular fluoroplastic piston shaft with the Gyrus ENT 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.

Catalog Number	Piston Diameter	Functional Length
14-1812	0.4mm	3.5mm
14-1813	0.4mm	3.75mm
14-1814	0.4mm	4mm
14-1815	0.4mm	4.25mm
14-1816	0.4mm	4.5mm
14-1817	0.4mm	4.75mm
14-1818	0.4mm	5mm
14-0813	0.5mm	3.75mm
14-0814	0.5mm	4mm
14-0815	0.5mm	4.25mm
14-0816	0.5mm	4.5mm
14-0817	0.5mm	4.75mm
14-0818	0.5mm	5mm
14-0781	0.6mm	3.5mm
14-0782	0.6mm	3.75mm
14-0783	0.6mm	4mm
14-0784	0.6mm	4.25mm
14-0785	0.6mm	4.5mm
14-0786	0.6mm	4.75mm
14-0787	0.6mm	5mm
14-0790	0.8mm	3.5mm
14-0791	0.8mm	3.75mm
14-0792	0.8mm	4mm
14-0793	0.8mm	4.25mm
14-0794	0.8mm	4.5mm
14-0795	0.8mm	4.75mm
14-0796	0.8mm	5mm

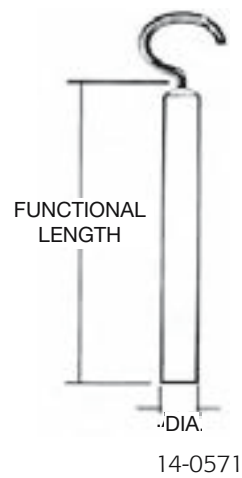
Ronis Pistons

Stainless Steel/Fluoroplastic

For use in incus attachment. Wire loop locks on long process of the incus.

Catalog Number	Piston Diameter	Functional Length
14-0571	0.6mm	4.5mm

Designed for Bernard J. Ronis, M.D., Philadelphia, PA.



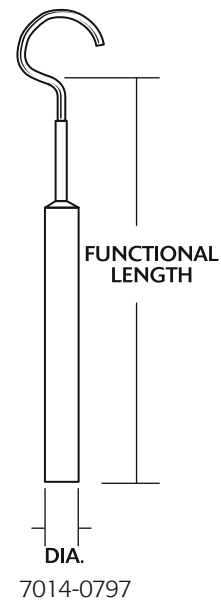
Sanna Piston

Fluoroplastic/Platinum

Trimnable to length.

Catalog Number	Piston Diameter	Functional Length
7014-0797	0.5mm	6.00mm

Designed for Professor Sanna, Piacenza, Italy.



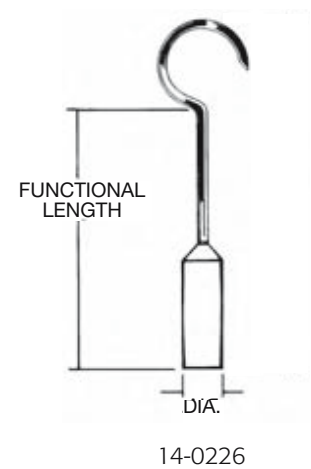
Scheer Pistons

Stainless Steel/Fluoroplastic

Features short, slim diameter piston.

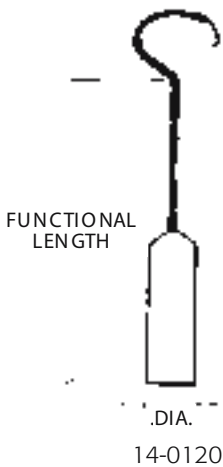
Catalog Number	Piston Diameter	Functional Length
14-0226	0.6mm	3.33mm
14-0227	0.6mm	3.58mm
14-0228	0.6mm	3.83mm
14-0229	0.6mm	4.08mm
14-0230	0.6mm	4.33mm
14-0231	0.6mm	4.58mm

Designed for Alan Scheer, M.D., New York, NY.



Pistons

(cont.)



Schuknecht Pistons

Stainless Steel/Fluoroplastic

For incus attachment. Wire loop locks on long process of the incus. A graft may be placed around piston to seal the oval window.

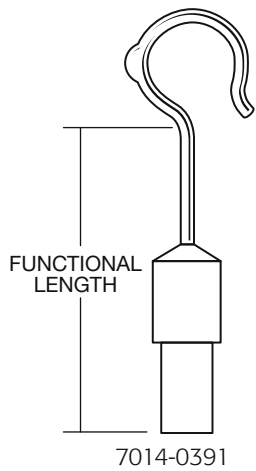
Catalog Number	Piston Diameter	Functional Length
14-0120	0.6mm	3mm
14-0121	0.6mm	3.25mm
14-0122	0.6mm	3.5mm
14-0123	0.6mm	3.75mm
14-0124	0.6mm	4mm
14-0125	0.6mm	4.25mm
14-0126	0.6mm	4.5mm
14-0127	0.6mm	4.75mm
14-0128	0.6mm	5mm
14-0129	0.6mm	5.25mm
14-0130	0.6mm	5.5mm
14-0131	0.6mm	5.75mm
14-0102	0.8mm	3.5mm
14-0103	0.8mm	3.75mm
14-0104	0.8mm	4mm
14-0105	0.8mm	4.25mm
14-0106	0.8mm	4.5mm
14-0107	0.8mm	4.75mm
14-0108	0.8mm	5mm
14-0110	0.8mm	5.5mm

Designed for Harold F. Schuknecht, M.D., Boston, MA.

Velegrakis Pistons

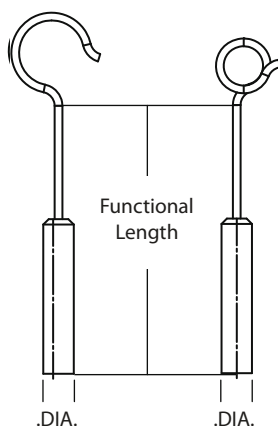
Platinum/Fluoroplastic

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.



Catalog Number	Description	Piston Diameter	Functional Length
7014-0392	Fluoroplastic/Platinum	Dual Diameter 0.8 to 0.6mm, Lower Portion Length	4.25mm
7014-0393	Fluoroplastic/Platinum	Dual Diameter 0.8 to 0.6mm, Lower Portion Length	4.5mm

Developed in conjunction with George Velegrakis, M.D., Heraklion Crete, Greece.



7014-3657

SMart® 360 Piston

Nitinol/Fluoroplastic

The SMart® 360 Piston is a completely encircling piston containing heat activated Nitinol.

Catalog Number	Description	Piston Diameter	Functional Length
7014-3645	Nitinol/Fluoroplastic	0.4mm	5.25mm
7014-3652	Nitinol/Fluoroplastic	0.5mm	4.25mm
7014-3655	Nitinol/Fluoroplastic	0.5mm	4.50mm
7014-3657	Nitinol/Fluoroplastic	0.5mm	4.75mm
7014-3662	Nitinol/Fluoroplastic	0.6mm	4.25mm
7014-3665	Nitinol/Fluoroplastic	0.6mm	4.50mm
7014-3667	Nitinol/Fluoroplastic	0.6mm	4.75mm

Gyrus ACMI Otologic implants are MR conditional to 3T*
Data on file*



7013-1012

SMart® Piston Heating Device

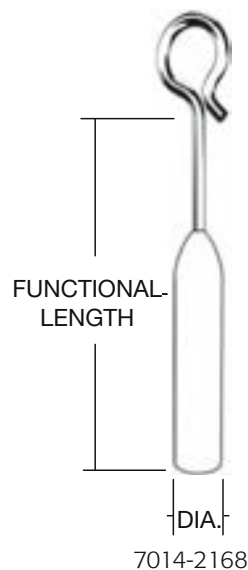
Catalog Number	Description	Units per Box
7013-1012	SMart Thermal Handle with AA Battery	1
7013-1013	SMart Thermal Tip & Drape	6

SMart® Piston

Nitinol/Fluoroplastic

For incus attachment. Piston wire safely & securely fashions itself around the long process when heat is applied, minimizing the potential for under-crimping or over-crimping.

Catalog Number	Description	Piston Diameter	Functional Length
7014-2168	Fluoroplastic/Nitinol	0.4mm	3.5-5.25mm Trimmable
7014-5920	Fluoroplastic/Nitinol	0.5mm	3.75mm
7014-5921	Fluoroplastic/Nitinol	0.5mm	4mm
7014-5922	Fluoroplastic/Nitinol	0.5mm	4.25mm
7014-5923	Fluoroplastic/Nitinol	0.5mm	4.5mm
7014-5924	Fluoroplastic/Nitinol	0.5mm	4.75mm
7014-5925	Fluoroplastic/Nitinol	0.6mm	3.75mm
7014-5926	Fluoroplastic/Nitinol	0.6mm	4mm
7014-5927	Fluoroplastic/Nitinol	0.6mm	4.25mm
7014-5928	Fluoroplastic/Nitinol	0.6mm	4.5mm
7014-5929	Fluoroplastic/Nitinol	0.6mm	4.75mm
7014-5930	Fluoroplastic/Nitinol	0.8mm	3.75mm
7014-5931	Fluoroplastic/Nitinol	0.8mm	4mm
7014-5932	Fluoroplastic/Nitinol	0.8mm	4.25mm
7014-5933	Fluoroplastic/Nitinol	0.8mm	4.5mm
7014-5934	Fluoroplastic/Nitinol	0.8mm	4.75mm



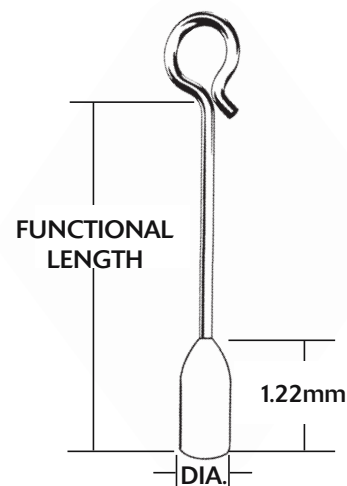
SMart® De La Cruz Piston

Nitinol/Fluoroplastic

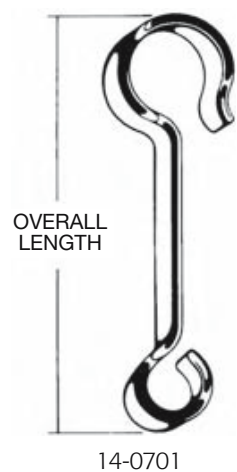
Shortened fluoroplastic shaft offers improved visibility during placement. Nitinol wire securely fashions around the incus when heat is applied.

Catalog Number	Description	Piston Diameter	Functional Length
7014-2056	Nitinol/Fluoroplastic	0.6mm	4mm
7014-2057	Nitinol/Fluoroplastic	0.6mm	4.25mm
7014-2058	Nitinol/Fluoroplastic	0.6mm	4.5mm
7014-2059	Nitinol/Fluoroplastic	0.6mm	4.75mm

Developed in conjunction with Antonio De La Cruz, Los Angeles, CA.



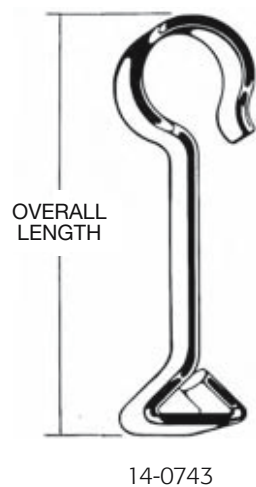
Loops



Platinum Ribbon Loops

Platinum
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.

Catalog Number	Overall Length
14-0701	3.5mm
14-0702	3.75mm
14-0703	4mm
14-0704	4.25mm
14-0705	4.5mm
14-0706	4.75mm
14-0707	5mm
14-0708	5.25mm
14-0709	5.5mm



Trapeze Ribbon Loops

Platinum
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.

Catalog Number	Overall Length
14-0743	4.5mm
14-0744	4.75mm
14-0745	5mm

Designed for David Austin, M.D., Twin Falls, ID.

Tantalum Wire Loops

Tantalum

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.

Catalog Number	Material	Wire Diameter	Overall Length
14-0721	Tantalum	0.13mm	4mm
14-0722	Tantalum	0.13mm	4.25mm
14-0723	Tantalum	0.13mm	4.5mm
14-0724	Tantalum	0.13mm	4.75mm
14-0725	Tantalum	0.13mm	5mm



14-0721

House-Type Wire Loops

Stainless Steel

For incus attachment. Length measured overall.

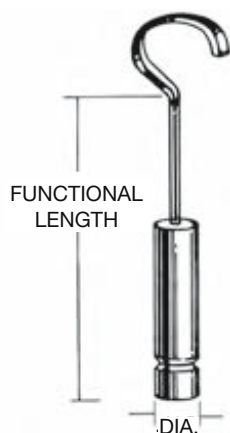
Catalog Number	Wire Diameter	Overall Length
14-0180	0.13mm	3mm
14-0181	0.13mm	3.25mm
14-0182	0.13mm	3.5mm
14-0183	0.13mm	3.75mm
14-0184	0.13mm	4mm
14-0185	0.13mm	4.25mm
14-0186	0.13mm	4.5mm
14-0187	0.13mm	4.75mm
14-0188	0.13mm	5mm
14-0189	0.13mm	5.25mm
14-0190	0.13mm	5.5mm
14-0191	0.13mm	5.75mm
14-0192	0.13mm	6mm
14-0193	0.13mm	6.25mm
14-0194	0.13mm	6.5mm



14-0180

Designed for Howard P. House, M.D., Los Angeles, CA.

Malleus Attached Pistons



14-0600

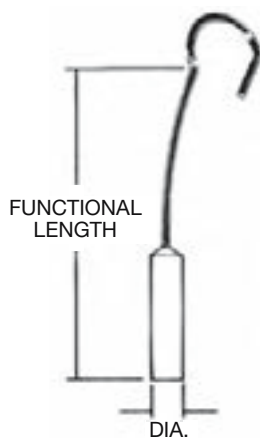
McGee Malleus Attached Pistons

Platinum/Stainless Steel

Designed to be used in revision cases, or when the long process of the incus is not suitable for prosthesis attachment. Longer lengths of this popular piston allow for malleus attachment.

Catalog Number	Piston Diameter	Diameter	Functional Length
14-0600	0.5mm	1.22mm	4.5mm
14-0601	0.5mm	1.22mm	4.75mm

Designed for T. Manford McGee, M.D., Detroit, MI.



14-0135

Schuknecht Malleus Attached Pistons

Stainless Steel/Fluoroplastic

Large, open hook for easy attachment, long curved wire for better angulation to oval window. Available in two piston diameters.

Catalog Number	Piston Diameter	Functional Length
14-0135	0.6mm	5.5mm
14-0136	0.6mm	5.75mm
14-0132	0.6mm	6mm
14-0115	0.8mm	5.5mm
14-0116	0.8mm	5.75mm
14-0112	0.8mm	6mm
14-0113	0.8mm	6.25mm
14-0114	0.8mm	6.5mm

Designed for Harold F. Schuknecht, M.D., Boston, MA.

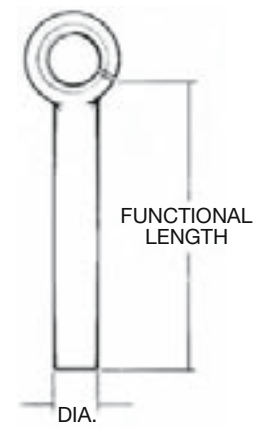
Shea Malleus Attachment Pistons

Fluoroplastic

This fluoroplastic piston has a large loop I.D. to fit the incus. Opens with a pick for attachment; “plastic memory” provides secure closure.

Catalog Number	Piston Diameter	Loop I.D.	Functional Length
14-0432	0.8mm	0.8mm	4.5mm
14-0434	0.8mm	0.8mm	5mm

Designed for John J. Shea, M.D., Memphis, TN.



14-0430

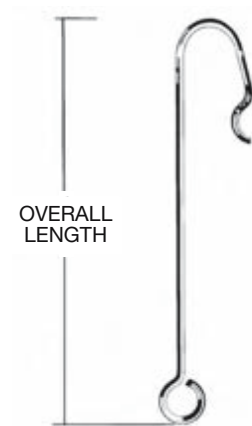
Sheehy-Type Incus Replacement Struts

Stainless Steel

For malleus attachment using standard graft procedure in oval window.

Catalog Number	Wire Diameter	Overall Length
14-0458	0.13mm	5mm
14-0460	0.13mm	5.5mm
14-0461	0.13mm	5.75mm
14-0462	0.13mm	6mm
14-0464	0.13mm	6.5mm
14-0465	0.13mm	6.75mm

Designed for James L. Sheehy, M.D., Los Angeles, CA and W. Hugh Powers, M.D., Los Angeles, CA.

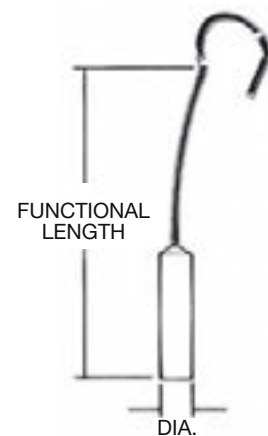


14-0458

SMart® Malleus

For Stapes revisions. Piston wire securely fashions itself around the malleus, minimizing the potential for over-crimping or under-crimping.

Catalog Number	Description	Piston Diameter	Functional Length
7014-2037	Fluoroplastic/Nitinol	0.6mm	5.5mm
7014-2038	Fluoroplastic/Nitinol	0.6mm	6mm
7014-2039	Fluoroplastic/Nitinol	0.6mm	6.5mm



7014-2037

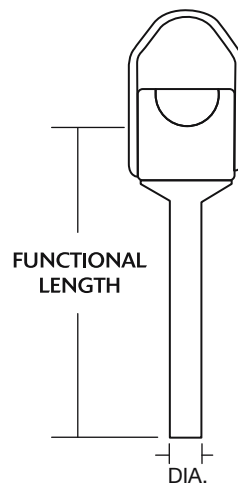
Cupped Pistons

Causse Bucket Handle Prosthesis

Fluoroplastic

Catalog Number	Piston Diameter	Well Diameter	Functional Length
7014-2140	0.4mm	1.32mm	5mm

As developed in conjunction with Jean-Bernard Causse, M.D., Béziers, France.



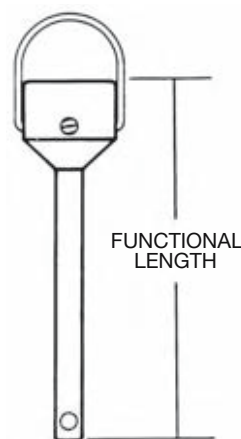
7014-2140

Classic Stapes Prostheses

Titanium

Equivalent to basic "Robinson"-type design.

Catalog Number	Piston Diameter	Well Diameter	Functional Length
7014-2141	Narrow, 0.4mm	Large, 1mm	4mm
7014-2142	Narrow, 0.4mm	Standard, 0.9mm	4mm
7014-2143	Standard, 0.6mm	Large, 1mm	4mm
7014-2144	Standard, 0.6mm	Standard, 0.9mm	4mm
7014-2145	Narrow, 0.4mm	Large, 1mm	4.5mm
7014-2146	Narrow, 0.4mm	Standard, 0.9mm	4.5mm
7014-2147	Standard, 0.6mm	Large, 1mm	4.5mm
7014-2148	Standard, 0.6mm	Standard, 0.9mm	4.25mm
7014-2149	Standard, 0.6mm	Standard, 0.9mm	4.5mm
7014-2150	Narrow, 0.4mm	Large, 1mm	5mm
7014-2151	Narrow, 0.4mm	Standard, 0.9mm	5mm
7014-2152	Standard, 0.6mm	Large, 1mm	5mm
7014-2153	Standard, 0.6mm	Standard, 0.9mm	5mm

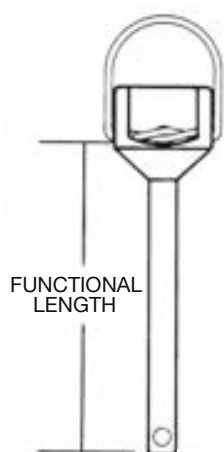


7014-2141

Lippy Modified Stapes Prostheses

Titanium

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.



7014-2154

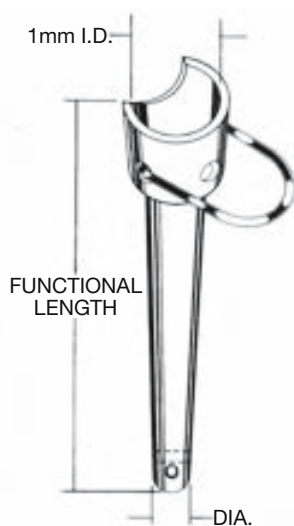
Catalog Number	Piston Diameter	Well Diameter	Functional Length
7014-2154	0.4mm	1mm	3.65mm
7014-2155	0.4mm	1mm	4.15mm
7014-2156	0.4mm	1mm	4.65mm
7014-2157	0.4mm	1mm	5.15mm

Designed by William N. Lippy, M.D., Warren, OH.

Richards Bucket Handle Prostheses

Titanium

A clinically proven piston design in a choice of well-tolerated material – titanium. 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.



7014-2158

Catalog Number	Piston Diameter	Well Diameter	Functional Length
7014-2158	0.4mm	1mm	3.5mm
7014-2159	0.4mm	1mm	4mm
7014-2160	0.4mm	1mm	4.25mm
7014-2161	0.4mm	1mm	4.5mm
7014-2162	0.4mm	1mm	5mm
7014-2163	0.6mm	1mm	3.5mm
7014-2164	0.6mm	1mm	4mm
7014-2165	0.6mm	1mm	4.25mm
7014-2166	0.6mm	1mm	4.5mm
7014-2167	0.6mm	1mm	5mm

Cupped Pistons

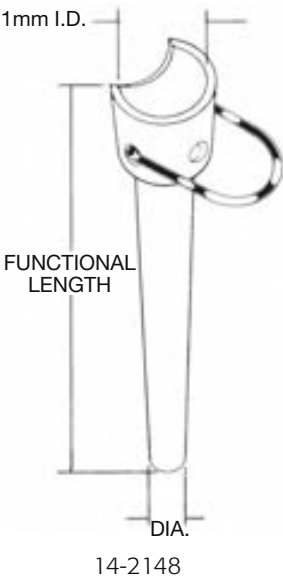
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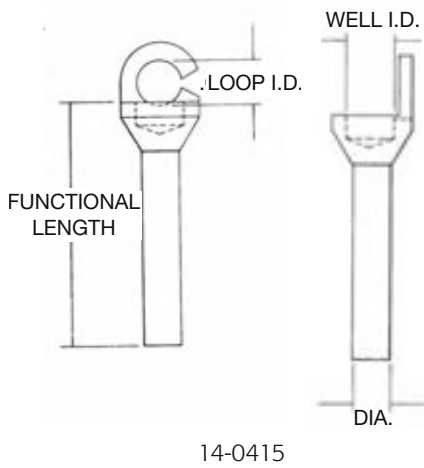
Richards Bucket Handle Prostheses

Fluoroplastic

A clinically proven piston design in a choice of well-tolerated material — fluoroplastic. 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.

Catalog Number	Piston Diameter	Well Diameter	Functional Length
14-2148	0.4mm	1mm	3.5mm
14-2150	0.4mm	1mm	4mm
14-2152	0.4mm	1mm	4.5mm
14-2154	0.4mm	1mm	5mm
14-2132	0.6mm	1mm	3.5mm
14-2134	0.6mm	1mm	4mm
14-2136	0.6mm	1mm	4.5mm
14-2138	0.6mm	1mm	5mm





Shea Cup Pistons

Fluoroplastic

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 of the Shea Fluoroplastic Cup Piston accepts the lenticular process of the incus, directing the piston shaft downward at the proper angle to the oval window. A special retaining loop behind the "cup" fits easily around the lower end of the incus to maintain the prosthesis securely in place.

Catalog Number	Version	Piston Diameter	Loop I.D.	Cup I.D.	Functional Length
14-0415	Left Ear	0.8mm	1.04mm	1.12mm	4mm
14-0416	Left Ear	0.8mm	1.04mm	1.12mm	4.5mm
14-0417	Left Ear	0.8mm	1.04mm	1.12mm	5mm
14-0418	Left Ear	0.8mm	1.04mm	1.12mm	6mm
14-0410	Left Ear	0.8mm	0.97mm	1.02mm	4mm
14-0411	Left Ear	0.8mm	0.97mm	1.02mm	4.5mm
14-0412	Left Ear	0.8mm	0.97mm	1.02mm	5mm
14-0413	Left Ear	0.8mm	0.97mm	1.02mm	6mm
14-0425	Right Ear	0.8mm	1.04mm	1.12mm	4mm
14-0426	Right Ear	0.8mm	1.04mm	1.12mm	4.5mm
14-0427	Right Ear	0.8mm	1.04mm	1.12mm	5mm
14-0428	Right Ear	0.8mm	1.04mm	1.12mm	6mm
14-0420	Right Ear	0.8mm	0.97mm	1.02mm	4mm
14-0421	Right Ear	0.8mm	0.97mm	1.02mm	4.5mm
14-0422	Right Ear	0.8mm	0.97mm	1.02mm	5mm
14-0423	Right Ear	0.8mm	0.97mm	1.02mm	6mm

Designed for John J. Shea, M.D., Memphis, TN.

Cupped Pistons

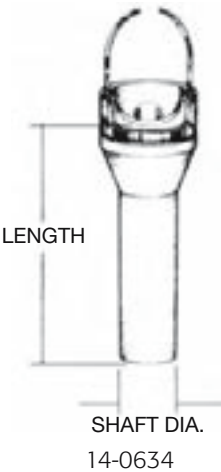
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Shea Platinum/Fluoroplastic Cup Pistons

Platinum/Fluoroplastic

Reconstructing the sound-conducting mechanism of the middle ear with this precisely-engineered piston closely approximates the natural configuration of the ossicular chain with stable implant attachment in both the vertical and the horizontal planes. The cut-out “cupped” head accepts the lenticular process of the incus, directing the piston shaft downward at the proper angle to the oval window. 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.

Catalog Number	Piston Diameter	Functional Length
14-0635	0.6mm	3.75mm
14-0636	0.6mm	4mm
14-0637	0.6mm	4.25mm
14-0638	0.6mm	4.5mm
14-0639	0.6mm	4.75mm
14-0640	0.6mm	5mm
14-0644	0.8mm	4mm
14-0648	0.8mm	5mm



Designed for John J. Shea, M.D., Memphis, TN.



Your Vision, Our Future

Contents

VoCoM™
Vocal Cord Medialization VCM-10

VoCoM™

The VoCoM™ Vocal Cord Medialization system is a prefabricated implant system for unilateral vocal cord paralysis. The VoCoM™ system consists of three elements:

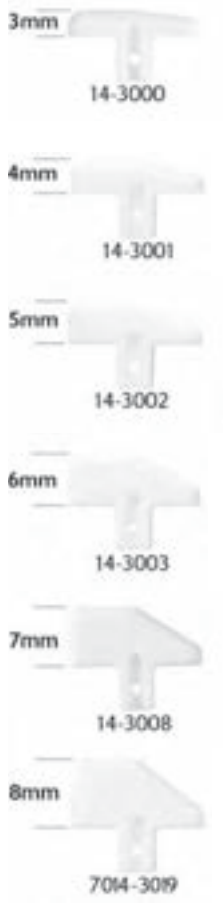
Implants: prefabricated hydroxylapatite (HA), offering 3, 4, 5, 6, 7 or 8mm displacement.

Shims: Also from dense HA, allowing flexibility of implant positioning within the window.

Instruments: Reusable patterns for window sizing, fenestra creation, implant selection and implant insertion.

VoCoM™ Implants

Sterile Package



Catalog Number	Name	Material	Height
14-3000	VoCoM™ Implant, 3mm	Dense Hydroxylapatite	3mm (Head)
14-3001	VoCoM™ Implant, 4mm	Dense Hydroxylapatite	4mm (Head)
14-3002	VoCoM™ Implant, 5mm	Dense Hydroxylapatite	5mm (Head)
14-3003	VoCoM™ Implant, 6mm	Dense Hydroxylapatite	6mm (Head)
14-3008	VoCoM™ Implant, 7mm	Dense Hydroxylapatite	7mm (Head)
7014-3019	VoCoM™ Implant, 8mm	Dense Hydroxylapatite	8mm (Head)

VoCoM™ Shims

Sterile Package

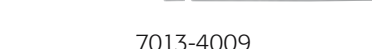
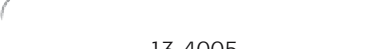
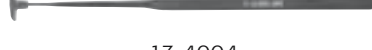
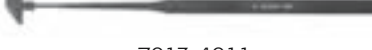
Catalog Number	Name	Material	Dimensions
14-3007	VoCoM™ Shim, 0mm Offset	Dense Hydroxylapatite	6 x 10 x 0mm
14-3004	VoCoM™ Shim, 1mm Offset	Dense Hydroxylapatite	6 x 10 x 1mm
14-3005	VoCoM™ Shim, 2mm Offset	Dense Hydroxylapatite	6 x 10 x 2mm
14-3006	VoCoM™ Shim, 3mm Offset	Dense Hydroxylapatite	6 x 10 x 3mm



VoCoM™ Instruments

Part of Set: Yes

Catalog Number	Name	Description	Height	Overall Length	Finish
13-4010	VoCoM™ Instrument Set	Sterilization Case & One of Each Instrument			
13-4004	VoCoM™ Fenestra Template				Ebony
13-4005	VoCoM™ Perichondrium Elevator			187.5mm	Glass Bead
7013-4009	VoCoM™ Implant Inserter	Grip Tip			Matte
13-4000	VoCoM™ Trial, 3mm	SS Trial Tip	3mm (Head)		Ebony
13-4001	VoCoM™ Trial, 4mm	SS Trial Tip	4mm (Head)		Ebony
13-4002	VoCoM™ Trial, 5mm	SS Trial Tip	5mm (Head)		Ebony
13-4003	VoCoM™ Trial, 6mm	SS Trial Tip	6mm (Head)		Ebony
13-4008	VoCoM™ Trial, 7mm	SS Trial Tip	7mm (Head)		Ebony
7013-4011	VoCoM™ Trial, 8mm	SS Trial Tip	8mm (Head)		Ebony
13-4007	VoCoM™ Instrument Sterilization Case				



Charles W. Cummings, M.D., Paul Flint, M.D., Andrew Blitzer, M.D., Charles Ford, M.D.

VENTILATION TUBES

Ventilation Tubes

A.....	VTM-110
B / C.....	VTM-115
D / F / J.....	VTM-120
L / M.....	VTM-125
P.....	VTM-130
P / R.....	VTM-135
R / S.....	VTM-140
S.....	VTM-145
S / T / V.....	VTM-150

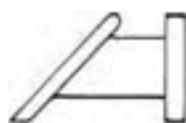
MYRINGOTOMY ACCESSORIES

Myringotomy Accessories

Tube Inserters, Myringotomy Case	VTM-155
	VTM-160
Myringotomy Accessories	
Blade Handles and Blades	VTM-165
Blades and Knives	VTM-170

Ventilation Tubes

A



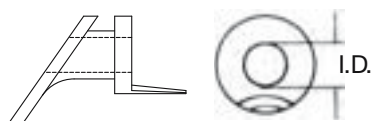
14-0242

Armstrong Beveled Grommets # 1

Beveled inner flange corresponds to the angle of the tympanic membrane, resists premature extrusion.

Catalog Number	Material	I.D.	Units per Package	Units per Box
14-0242	Fluoroplastic	1.14mm	1	6
14-5700	Fluoroplastic	1.14mm	2	60
7014-5061	Blue Fluoroplastic	1.14mm	1	6
7014-3061	Blue Fluoroplastic	1.14mm	1	30
7014-5761	Blue Fluoroplastic	1.14mm	2	60
7014-0267	PC Coated Fluoroplastic	1.14mm	1	6
7014-3067	PC Coated Fluoroplastic	1.14mm	1	30
7014-6067	PC Coated Fluoroplastic	1.14mm	2	60

Designed by B.W. Armstrong, M.D., Charlotte, NC.



24-0050

Armstrong Beveled Grommets # 2

Beveled inner flange corresponds to the angle of the tympanic membrane, resists premature extrusion. Tab permits easy removal.

Catalog Number	Material	I.D.	Units per Package	Units per Box
24-0050	Blue Silicone, with Tab	1.14mm	1	6
7024-1050	Blue Ultrasil™ Silicone, with Tab	1.14mm	1	6
7024-1350	Blue Ultrasil™ Silicone, with Tab	1.14mm	1	30
7024-5755	Blue Ultrasil™ Silicone, with Tab	1.14mm	2	60

Designed by B.W. Armstrong, M.D., Charlotte, NC.

Armstrong Beveled Plain End Ventilation Tubes

Beveled inner flange corresponds to the angle of the tympanic membrane, resists premature extrusion.

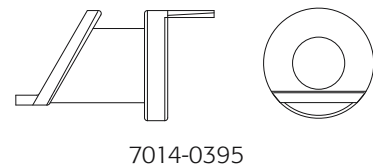


Catalog Number	Material	I.D.	Length	Units per Package	Units per Box
14-0244	Fluoroplastic	1.14mm	7.6mm	1	6
14-5706	Fluoroplastic	1.14mm	7.6mm	2	60
24-0052	Blue Silicone	1.14mm	7.6mm	1	6
7024-1052	Blue Ultrasil™ Silicone	1.14mm	7.6mm	1	6
7014-0345	PC Coated Fluoroplastic	1.14mm	7.6mm	1	6
7014-0346	PC Coated Fluoroplastic	1.14mm	7.6mm	1	30
7014-0347	PC Coated Fluoroplastic	1.14mm	7.6mm	2	60

Designed by B.W. Armstrong, M.D., Charlotte, NC.

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.

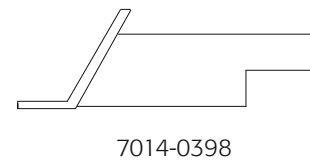


Catalog Number	Material	I.D.	Units per Package	Units per Box
7014-0395	PC Coated Blue Fluoroplastic	1.14mm	1	6
7014-0396	PC Coated Blue Fluoroplastic	1.14mm	1	30
7014-0397	PC Coated Blue Fluoroplastic	1.14mm	2	60

Designed by B.W. Armstrong, M.D., Charlotte, NC.

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 and are Pacific™ coated to help prevent biofilm formation.



Catalog Number	Material	I.D.	Length	Units per Package	Units per Box
7014-0398	PC Coated Blue Fluoroplastic	1.14mm	4.5mm	1	6
7014-0399	PC Coated Blue Fluoroplastic	1.14mm	4.5mm	1	30
7014-0400	PC Coated Blue Fluoroplastic	1.14mm	4.5mm	2	60
7014-0401	PC Coated Blue Fluoroplastic	1.14mm	7.5mm	1	6
7014-0402	PC Coated Blue Fluoroplastic	1.14mm	7.5mm	1	30
7014-0403	PC Coated Blue Fluoroplastic	1.14mm	7.5mm	2	60

Designed by B.W. Armstrong, M.D., Charlotte, NC.

Baxter Beveled Bobbin

Designed to enhance retention and aeration. The tapered lumen assists the surgeon in cleaning if necessary.

Catalog Number	Material	I.D.	Units per Package	Units per Box
7014-0271	PC Coated Blue Fluoroplastic	0.97mm	1	6
7014-0273	PC Coated Blue Fluoroplastic	0.97mm	1	30
7014-0275	PC Coated Blue Fluoroplastic	0.97mm	2	60
7014-0270	PC Coated Blue Fluoroplastic	1.27mm	1	6
7014-0272	PC Coated Blue Fluoroplastic	1.27mm	1	30
7014-0274	PC Coated Blue Fluoroplastic	1.27mm	2	60

Designed by Dave Baxter, R.N., Boston, MA



7014-0271

Berger "V" Bobbin Ventilation Tube

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.

Catalog Number	Material	I.D.	Units per Package	Units per Box
14-5282	Titanium	1.27mm	1	6

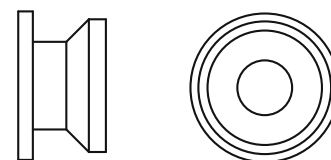
Designed by Eric S. Berger, M.D., Aberdeen, WA. U.S. Patent No. 4,080,171



14-5282

Bevel Bobbin Ventilation Tube

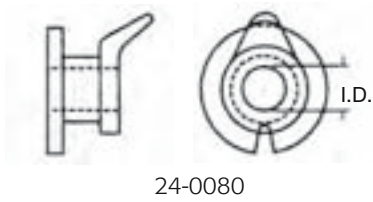
Catalog Number	Material	I.D.	Units per Package	Units per Box
7014-3257	Blue Fluoroplastic	1.14mm	1	6



7014-3257

Canale Ventilation Tube

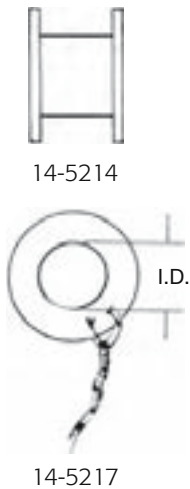
Notched medial flange allows smaller myringotomy as the tube is screwed into the incision. Angled tab helps in easy insertion.



Catalog Number	Material	I.D.	Units per Package	Units per Box
24-0080	Blue Silicone	1.14mm	1	6

Collar Button Ventilation Tubes

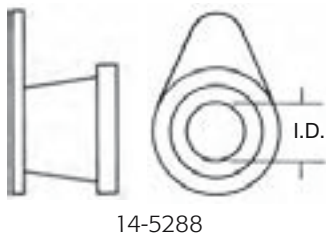
A "collar button" shaped ventilation tube for treatment of chronic, serious otitis media.



Catalog Number	Material	I.D.	I.F.	Units per Package	Units per Box
14-5214-ENT	Fluoroplastic	1.27mm	1.5mm	1	6
7014-5062	Blue Fluoroplastic	1.27mm	1.5mm	1	6
14-5705	Fluoroplastic	1.27mm	1.5mm	2	60
14-5217-ENT	Fluoroplastic with Wire	1.27mm	1.5mm	1	6
14-5004-ENT	Fluoroplastic	1.27mm	1.5mm	1	30
7014-5060	Blue Fluoroplastic	1.27mm	1.5mm	2	60
7014-5314	PC Coated Fluoroplastic	1.27mm	1.5mm	1	6
7014-5316	PC Coated Fluoroplastic	1.27mm	1.5mm	1	30
7014-5317	PC Coated Fluoroplastic	1.27mm	1.5mm	2	60
24-0014	Blue Silicone	1.27mm	1.5mm	1	6
7024-1014	Blue Ultrasil™ Silicone	1.27mm	1.5mm	1	6
7024-1314	Blue Ultrasil™ Silicone	1.27mm	1.5mm	1	30
7024-1060	Blue Ultrasil™ Silicone	1.27mm	1.5mm	2	60

Collar Bobbin® Ventilation Tubes

Unique thicker collar permits grasping from different angles while the tapered lumen resists clogging with a minimal TM incision.



Catalog Number	Material	I.D.	I.F.	Units per Package	Units per Box
14-5287	Titanium	1.14mm	1.5mm	1	6
14-5297	Titanium	1.27mm	1.5mm	1	6
14-5288	Fluoroplastic	0.75mm	1.5mm	1	6
14-5289	Fluoroplastic	1.14mm	1.5mm	1	6
14-5298	Fluoroplastic	1.27mm	1.5mm	1	6

Donaldson Ventilation Tubes

Flanges resist migration and extrusion. Large lumen promotes good ventilation.

Catalog Number	Material	I.D.	Units per Package	Units per Box
24-0015	Blue Silicone	1.14mm	1	6
24-5702	Blue Silicone	1.14mm	2	60
24-0060	Blue Soft Silicone	1.14mm	1	6
24-0016	Blue Silicone with Tab	1.14mm	1	6
7024-5012	Blue Silicone with Tab	1.14mm	1	30
24-5707	Blue Silicone with Tab	1.14mm	2	60
7024-1015	Blue Ultrasil™ Silicone	1.14mm	1	6
14-6043	Fluoroplastic	1.14mm	1	60

Designed for James A. Donaldson, M.D., Seattle, WA.

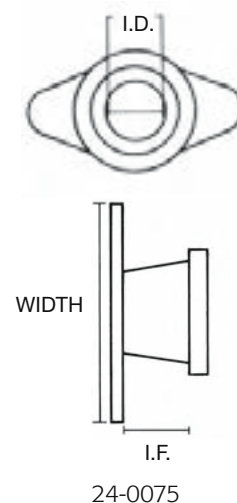


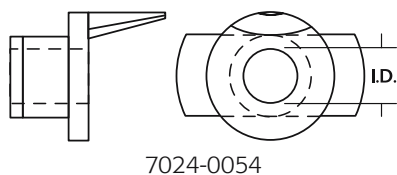
DuraVent™ Tubes

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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
24-0075	Blue Silicone	1.37mm I.F., 4.5mm Width	1.27mm	1	6
24-5775	Blue Silicone	1.37mm I.F., 4.5mm Width	1.27mm	2	60
7024-1075	Blue Ultrasil™ Silicone	1.37mm I.F.	1.27mm	1	6
7024-1375	Blue Ultrasil™ Silicone	1.37mm I.F.	1.27mm	1	30

As developed in conjunction with Bruce Black, M.D., Brisbane, Australia.

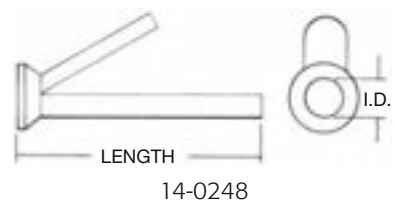




Dutcher Ventilation Tube with Tab

Catalog Number	Material	Description	I.D.	Dimensions	Units per Package	Units per Box
7024-0054	Blue Silicone Ultrasil	With Tab	1.27mm	Medial Flange - 4.3mm, Internal Flange - 3mm	1	6

Designed for Paul Dutcher, M.D., Rochester, NY.

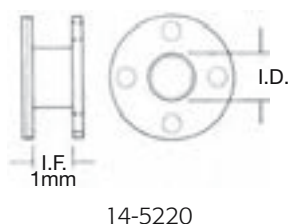


Feuerstein Split Ventilation Tube

Resists both extrusion and migration.

Catalog Number	Material	I.D.	Length	Units per Package	Units per Box
14-0248-ENT	Fluoroplastic	1.02mm	9mm	1	6

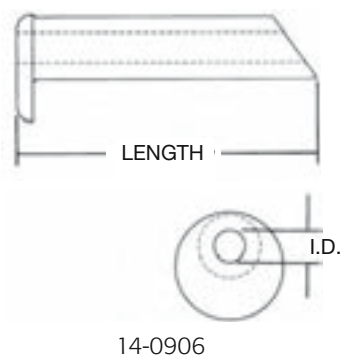
Designed for Sidney S. Feuerstein, M.D., New York, NY.



Fluoroplastic/Titanium Ventilation Tubes

Combines the advantages of biocompatible titanium and "dog" 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.

Catalog Number	Material	Description	I.D.	I.F.	Units per Package	Units per Box
14-5220-ENT	Fluoroplastic/Titanium	With Flange Holes	1mm	1mm	1	6
14-5271-ENT	Fluoroplastic/Titanium	Without Holes	1.27mm	1mm	1	6
14-5272-ENT	Fluoroplastic/Titanium	Without Holes	1.5mm	1mm	1	6



Jahn HydroxylVent® Tubes

Highly biocompatible dense hydroxylapatite tube designed for subannular placement. Intended for use only when long-term ventilation is indicated.

Catalog Number	Material	I.D.	Overall Length	Units per Package	Units per Box
14-0906	Hydroxylapatite	1mm	9.5mm	1	6
14-0926	Hydroxylapatite	1.27mm	9.5mm	1	6
14-0927	Hydroxylapatite, with Fluoroplastic Liner	1mm	9.5mm	1	6

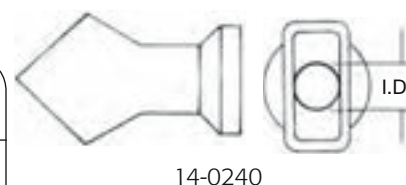
Designed by Anthony F. Jahn, M.D., Newark, NJ.

Lindeman-Silverstein Arrow Ventilation Tube

Designed to be rotated after insertion to lock in place.

Catalog Number	Material	I.D.	Units per Package	Units per Box
14-0240-ENT	Fluoroplastic	1.14mm	1	6

Designed for Roger Lindeman, M.D., Seattle, WA and Herbert Silverstein, M.D., Sarasota, FL.

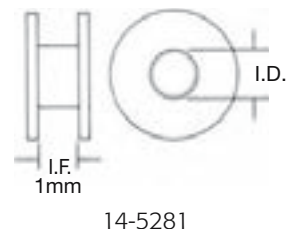


Micron™ Bobbin Ventilation Tubes

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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-5221-ENT	Titanium	"Mini" Version	0.76mm	1	6
14-5279	Titanium	No Flange Holes	1.14mm	1	6
14-5280-ENT	Titanium	No Flange Holes	1mm	1	6
14-5281-ENT	Titanium	No Flange Holes	1.27mm	1	6
14-5781	Titanium	Twin Pack No Flange Holes	1.27mm	2	60
14-5273-ENT	Titanium	With Spoon Flange	1.27mm	1	6
14-5215-ENT	Titanium	With Flange Holes	1mm	1	6
14-5219-ENT	Titanium	"Unibobbin" (Flange Holes on One Flange Only)	1mm	1	6
7014-5381	Blue Titanium	No Flange Holes	1.27mm	1	6
7014-5881	Blue Titanium	No Flange Holes	1.27mm	1	12

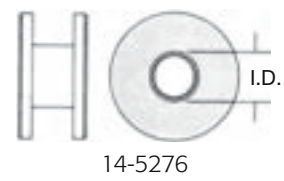
U.S. Patent No. 4,744,792



Micron™ + Plus Ventilation Tubes

This bobbin-style ventilation tube features the innovative Hydromer™ coating on the lumen and outer surfaces of each flange, providing a “slicker” surface than Teflon™ (fluoroplastic) material. Only titanium contacts the tympanic membrane, making the tube well-suited for long-term ventilation.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-5276	Titanium	+ Hydromer™ Coated	1.27mm	1	6
7014-5776	Titanium	+ Hydromer™ Coated	1.27mm	2	60



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 (1.78mm) may be inserted in the tympanic membrane to encourage early extrusion. When longer term ventilation is desired, the larger flange (2.16mm) 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.

Catalog Number	Material	I.D.	Description	Units per Pkg.	Units per Box
24-0042	Silicone	0.89mm	Reversible	1	6

Designed for Burton J. Cohen, M.D., Louisville, KY.

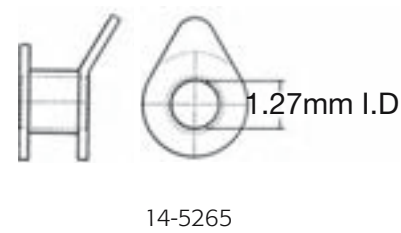


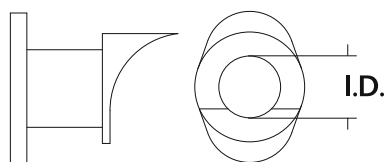
Moretz-Type Ventilation Tubes

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.

Catalog Number	Material	Description	I.D.	I.F.	Units per Package	Units per Box
14-5265-ENT	Titanium	Angled Tab	1.27mm	1mm	1	6
7014-5498	Blue Polyethylene	—	1.27mm	1mm	1	6
7014-5798	Blue Polyethylene	—	1.27mm	1mm	2	60
7014-2043	PC Coated Fluoroplastic	—	1.27mm	1.29mm	1	6

As developed by William Moretz, M.D., Augusta, GA.





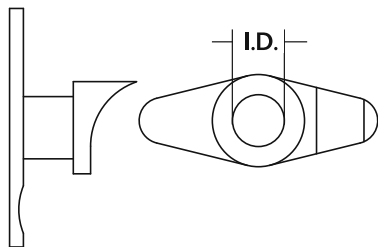
7014-0257

Paparella 2000 - Type 1 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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
7014-0257	Blue Soft Silicone Ultrasil™	Without Tab	1.14mm	1	6
7014-0357	Blue Soft Silicone Ultrasil™	Without Tab	1.14mm	1	30
7014-5757	Blue Soft Silicone Ultrasil™	Without Tab	1.14mm	2	60

Designed for Michael Paparella, M.D., Minneapolis, MN.



7014-0256

Paparella 2000 - Type 2 Ventilation Tubes

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
7014-0255	Blue Silicone	With Tab	1.14mm	1	6
7014-0256	Blue Soft Silicone Ultrasil™	With Tab	1.14mm	1	6
7024-1356	Blue Soft Silicone Ultrasil™	Without Tab	1.14mm	1	30
7024-5756	Blue Soft Silicone Ultrasil™	Without Tab	1.14mm	2	60

Designed for Michael Paparella, M.D., Minneapolis, MN.

Paparella-Type Type # 1 Ventilation Tubes

Notched inner flange for "twist-in" insertion. Very stable for long-term implantation.

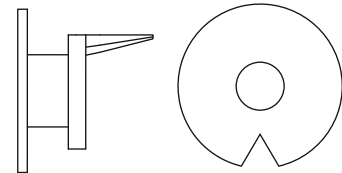


24-0044

Catalog Number	Description	Material	I.D.	Units per Package	Units per Box
14-0252-ENT	With Tab	Fluoroplastic	1.02mm	1	6
24-0043	Without Tab	Blue Silicone	1.02mm	1	6
24-0044	With Tab	Blue Silicone	1.02mm	1	6
24-5701	With Tab	Blue Silicone	1.02mm	2	60
24-0058	With Tab	Blue Soft Silicone	1.02mm	1	6
7024-1044	With Tab	Blue Ultrasil™ Silicone	1.02mm	1	6
7024-1344	With Tab	Blue Ultrasil™ Silicone	1.02mm	1	30
7024-5016	With Tab	Blue Silicone	1.02mm	1	30
7014-0280	With Tab	Blue Silicone	1.14mm	1	6
7024-0280	With Tab	Blue Ultrasil™ Silicone	1.14mm	1	6
7024-0281	With Tab	Blue Ultrasil™ Silicone	1.14mm	1	30
7024-0282	With Tab	Blue Ultrasil™ Silicone	1.14mm	2	60
7014-0281	With Tab	Blue Ultrasil™ Soft Silicone	1.14mm	1	6
7024-1380	With Tab	Blue Ultrasil™ Soft Silicone	1.14mm	1	30
7024-5780	With Tab	Blue Ultrasil™ Soft Silicone	1.14mm	2	60

Designed for Michael Paparella, M.D., Minneapolis, MN.

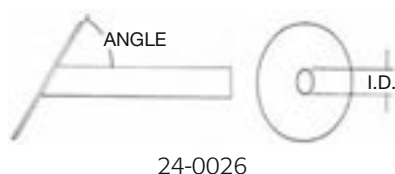
Paparella-Type Type # 2 Ventilation Tubes



24-0046

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-0254-ENT	Fluoroplastic	With Tab	1.27mm	1	6
24-0046	Blue Silicone	With Tab	1.27mm	1	6
7024-3046	Blue Silicone	With Tab	1.27mm	1	30
7024-5746	Blue Silicone	With Tab	1.27mm	2	60
7024-1046	Blue Ultrasil™ Silicone	With Tab	1.27mm	1	6
24-0048	Blue Silicone	With Tab	2.03mm	1	6

Designed for Michael Paparella, M.D., Minneapolis, MN.



Per-Lee Ventilation Tubes

Extra-large flange helps prevent extrusion, angled to align with ear canal for long-term ventilation. Large lumen for superior drainage.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
24-0026	Blue Silicone	60°, 15mm Long	1.57mm	1	6

Designed for John H. Per-Lee, M.D., Emory University, Atlanta, GA.



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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-5250	Polyethylene	Blue	1.14mm	1	6
7014-3250	Polyethylene	Blue	1.14mm	1	30
7014-5750	Polyethylene	Blue	1.14mm	2	60
7014-2047	Fluoroplastic Blue, PC	Blue	1.14mm	1	6

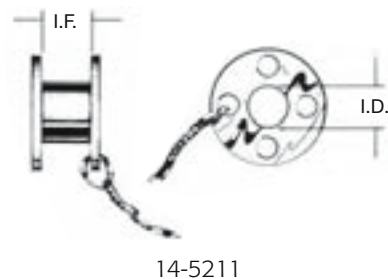
Designed for T.H. Pope, Indianapolis, IN.

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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-5212-ENT	Fluoroplastic	1mm I.F., Without Holes	1mm	1	6
7014-3255	Blue Fluoroplastic	1mm I.F., Without Holes	1mm	1	6
14-5709	Fluoroplastic	1mm I.F., Without Holes	1mm	2	60
7014-5319	PC Coated Fluoroplastic	1mm I.F., Without Holes	1mm	1	6
7014-5320	PC Coated Fluoroplastic	1mm I.F., Without Holes	1mm	1	30
7014-5321	PC Coated Fluoroplastic	1mm I.F., Without Holes	1mm	2	60
14-5213-ENT	Fluoroplastic	1mm I.F., Without Holes	1.14mm	1	6
14-5224-ENT	Fluoroplastic	1mm I.F., With Wire	1.14mm	1	6
14-5225-ENT	Fluoroplastic	1mm I.F.	1.14mm	1	6
14-5019-ENT	Fluoroplastic	1mm I.F., Without Holes	1.14mm	1	30
14-5710	Fluoroplastic	1mm I.F.	1.14mm	2	60
7014-5326	PC Coated Fluoroplastic	1mm I.F.	1.14mm	1	6
7014-5327	PC Coated Fluoroplastic	1mm I.F.	1.14mm	1	30
7014-5328	PC Coated Fluoroplastic	1mm I.F.	1.14mm	2	60
14-5227-ENT	Fluoroplastic	0.5mm I.F.	1.27mm	1	6
14-5208-ENT	Stainless Steel	1mm I.F.	1.14mm	1	6
14-5209-ENT	Stainless Steel	1mm I.F.	1.27mm	1	6
14-5210-ENT	Stainless Steel	1mm I.F.	1mm	1	6
14-5701	Stainless Steel	1mm I.F.	1mm	2	60
14-5211-ENT	Stainless Steel	1mm I.F., With Wire	1mm	1	6
14-5216-ENT	Stainless Steel (Satin Finish)	1mm I.F., With Wire	1mm	1	6
14-5218-ENT	Stainless Steel (Satin Finish)	1mm I.F.	1mm	1	6
14-5215-ENT	Titanium (Micron™ Finish)	1mm I.F.	1mm	1	6

Designed for S. Harold Reuter, M.D., Houston, TX.



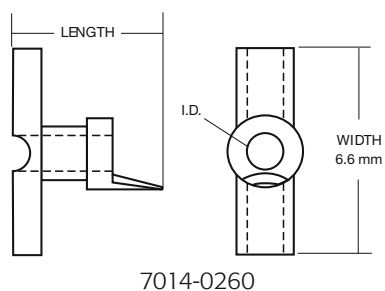
Rock Pediatric Ventilation Tube

A simple, short-term fluoroplastic "bobbin" tube for children. The larger flange 2.41mm (0.095") diameter is inserted through an incision in the tympanic membrane.

Catalog Number	Material	I.D.	I.F.	Units per Package	Units per Box
14-0086	Fluoroplastic	1.02mm	0.89mm	1	6

Designed for Erwin H. Rock, M.D., Yonkers, NY.



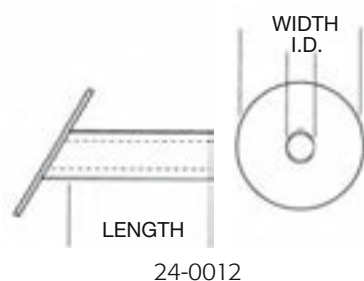


Rube Ventilation Tube

Based on the T-Tube design, the Rube Tube has the unique advantage of a shorter flange width which allows easier insertion.

Catalog Number	Material	I.D.	Length	Width	Units per Package	Units per Box
7014-0260	Blue Silicone with Tab	1.14mm	4.5mm	6.6mm	1	6

Designed by William Rubenstein, M.D., Houston, TX.

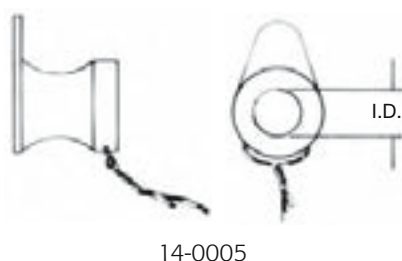


Shah Long-Term Ventilation Tubes

Designed for long-term ventilation. Can be trimmed to length.

Catalog Number	Material	I.D.	Dimensions	Overall Length	Units per Package	Units per Box
24-0012	Blue Silicone	1mm	5.1 x 5.1mm	5.1mm	1	6
7024-5000	Blue Silicone	1mm	6 x 4.25mm	6.8mm	1	30

As developed in conjunction with Mr. N. Shah, F.R.C.S., D.L.O., London, England.



Shah Ventilation Tubes

"Shoehorn" flange enables smaller incision and easy insertion.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-0005	Fluoroplastic	With Wire	1.14mm	1	6
14-5015-ENT	Fluoroplastic	With Wire	1.14mm	1	30
14-6044	Fluoroplastic	Without Wire	1.14mm	1	6
14-5001-ENT	Fluoroplastic	Without Wire	1.14mm	1	30
14-2230	Fluoroplastic	Without Wire	0.76mm	1	6
14-5020	Fluoroplastic	Without Wire	0.76mm	1	30

Designed for Mr. N. Shah, F.R.C.S., D.L.O., London, England.



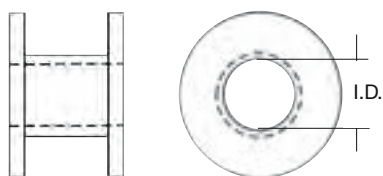
24-0036

Shea Parasol Ventilation Tubes

Unique design of the “folding” or collapsible flap allows easy insertion. Tube flap opens like an umbrella when placed through the incision. A simple pull on the removal tab inverts “umbrella” for easy removal.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
24-0035	Blue Silicone	With Tab, Small Flange	1.02mm	1	6
24-0036	Blue Silicone	With Tab	1.02mm	1	6
24-5703	Blue Silicone	With Tab	1.02mm	2	60
7024-1036	Blue Ultrasil™ Silicone	With Tab	1.02mm	1	6
24-0038	Blue Silicone	With Tab	1.52mm	1	6

Designed for John J. Shea, M.D., Memphis, TN.
U.S. Patent No. 3,871,380.



7014-5971

Sheehy Type Collar Button

Catalog Number	Material	I.D.	Units per Package	Units per Box
7014-5971	Fluoroplastic	1.27mm	1	6
7014-3071	Fluoroplastic	1.27mm	1	30
7014-5771	Fluoroplastic	1.27mm	2	60
7014-1080	PC Coated Fluoroplastic	1.27mm	1	6
7014-3075	PC Coated Fluoroplastic	1.27mm	1	30
7014-5780	PC Coated Fluoroplastic	1.27mm	2	60
7024-5781	Blue Silicone	1.27mm	1	6
7024-5782	Blue Silicone	1.27mm	2	60
7024-1000	Ultrasil™ Blue Silicone	1.27mm	1	6
7024-1001	Ultrasil™ Blue Silicone	1.27mm	2	60



14-0030

Shepard Grommet Ventilation Tubes

Various styles, colors, and sizes available. All are easily inserted with forceps or tube inserter through incision in drum.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-0007	Fluoroplastic	With Tab	1.02mm	1	6
14-0008	Fluoroplastic	With Tab	1.14mm	1	6
14-0027	Fluoroplastic	—	1.14mm	1	6
7014-3256	Blue Fluoroplastic	—	1.14mm	1	6
14-0028	Fluoroplastic	With Wire	1.02mm	1	6
14-5702	Fluoroplastic	With Wire	1.02mm	2	60
14-0029	Fluoroplastic	—	1.02mm	1	6
14-5711	Fluoroplastic	—	1.02mm	2	60
7014-1030	Fluoroplastic	—	1.02mm	1	6
7014-1031	Fluoroplastic	—	1.02mm	1	30
7014-1032	Fluoroplastic	—	1.02mm	2	60
14-0030	Fluoroplastic	With Wire	1.14mm	1	6
14-5704	Fluoroplastic	With Tab and Wire	1.14mm	2	60
24-0020	Blue Silicone	With Tab	1.02mm	1	6
14-6028	Blue Polyethylene	With Tab and Wire	1.02mm	1	6
14-6029	Blue Polyethylene	With Tab	1.02mm	1	6
14-6030	Blue Polyethylene	With Tab and Wire	1.14mm	1	6
14-6031	Blue Polyethylene	With Tab	1.14mm	1	6
14-5003-ENT	Fluoroplastic	—	1.14mm	1	30
14-5009	Fluoroplastic	With Wire	1.02mm	1	30
14-5002-ENT	Fluoroplastic	—	1.02mm	1	30
14-5010-ENT	Fluoroplastic	With Tab and Wire	1.14mm	1	30
7024-5008	Blue Silicone	With Tab	1.02mm	1	30
7024-1020	Blue Ultrasil™ Silicone	—	1.02mm	1	6

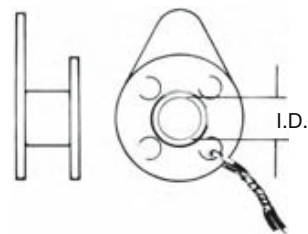
Designed for Marvin G. Shepard, M.D., Dallas, TX.

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.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
7014-5224	Fluoroplastic	Without Wire, Without Holes	1mm	1	12
14-5240-ENT	Stainless Steel	Without Wire	1mm	1	6
14-5241-ENT	Stainless Steel	With Wire	1mm	1	6
14-5273-ENT	Titanium	With Wire, Without Holes	1.27mm	1	6

Designed for Baldev K. Devgan, M.D., Malibu, CA.

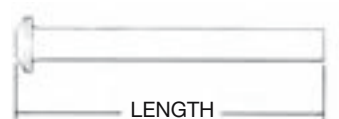


14-5241

Straight Ventilation Tubes

Small flange for easy insertion through small incision in the drum. May be cut to length.

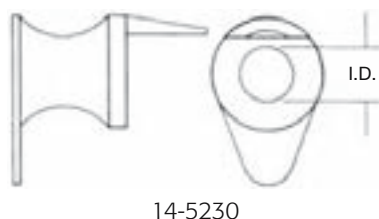
Catalog Number	Material	I.D.	Overall Length	Units per Package	Units per Box
14-0032	Fluoroplastic	0.89mm	12mm	1	6
14-0033	Fluoroplastic	1.14mm	12mm	1	6
14-5703	Fluoroplastic	1.14mm	12mm	2	60
14-0034	Fluoroplastic	0.89mm	7mm	1	6
14-5707	Fluoroplastic	0.89mm	7mm	2	60
7014-1035	PC Coated Fluoroplastic	0.89mm	7mm	1	6
7014-1036	PC Coated Fluoroplastic	0.89mm	7mm	1	30
7014-1037	PC Coated Fluoroplastic	0.89mm	7mm	2	60
14-0035	Fluoroplastic	1.14mm	7mm	1	6
14-5708	Fluoroplastic	1.14mm	7mm	2	60
14-6033	Blue Polyethylene	1.14mm	12mm	1	6
14-5713	Clear Polyethylene	0.86mm	7mm	2	60
14-0016	Clear Polyethylene	0.86mm	7mm	1	6
14-6035	Blue Polyethylene	1.14mm	7mm	1	6
14-5007-ENT	Fluoroplastic	1.14mm	12mm	1	30
14-5011-ENT	Fluoroplastic	1.14mm	7mm	1	30
7014-1039	PC Coated Fluoroplastic	1.14mm	7mm	1	6
7014-1040	PC Coated Fluoroplastic	1.14mm	7mm	1	30
7014-1041	PC Coated Fluoroplastic	1.14mm	7mm	2	60



LENGTH



14-0035



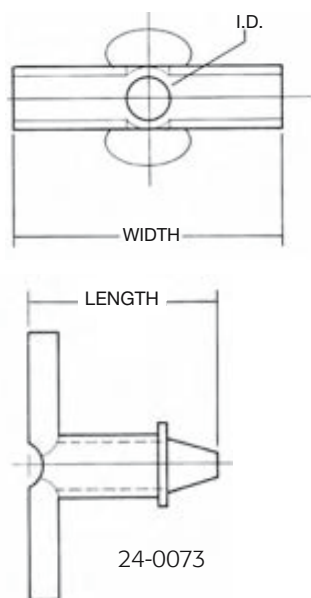
14-5230

Sultan Ventilation Tubes

"Shoehorn" flange permits easy insertion into a smaller incision. Integral tab for removal.

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
14-5230-ENT	Fluoroplastic	With Tab	1.27mm	1	6
14-5005-ENT	Fluoroplastic	With Tab	1.27mm	1	30

Designed for Andre A. Sultan, M.D., France.

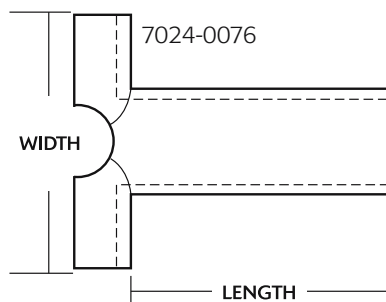


24-0073

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 I.D. than the standard T-Tube.

Catalog Number	Material	I.D.	Dimensions	Units per Package	Units per Box
24-0073	Blue Silicone	1.27mm	5.3mm L x 7.6mm W	1	6
7024-5018	Blue Silicone	1.27mm	5.3mm L x 7.6mm W	1	30
7024-1073	Blue Ultrasil™ Silicone	1.27mm	5.3mm L x 7.6mm W	1	6



7024-0076

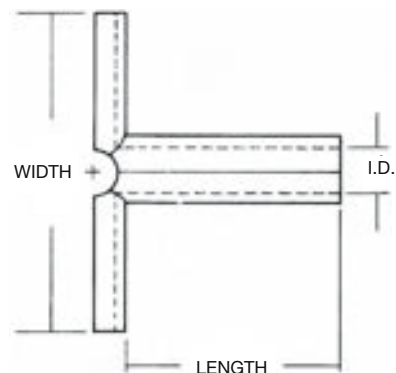
T-Tubes, Tiny

Catalog Number	Material	I.D.	Dimensions	Units per Package	Units per Box
7024-0076	Blue Silicone	1.32mm	4mm L x 4mm W	1	6
7024-1076	Blue Ultrasil™ Silicone	1.32mm	4mm L x 4mm W	1	6

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 I.D. has been increased to facilitate ventilation with less clogging. O.D. is the same as the original design.

Catalog Number	Material	I.D.	Length	Units per Package	Units per Box
24-0072	Blue Silicone	1.32mm	4.8mm	1	6
7024-5017	Blue Silicone	1.32mm	4.8mm	1	30
24-5704	Blue Silicone	1.32mm	4.8mm	2	60
24-0074	Blue Soft Silicone	1.32mm	4.8mm	1	6
7024-1072	Blue Ultrasil™ Silicone	1.32mm	4.8mm	1	6

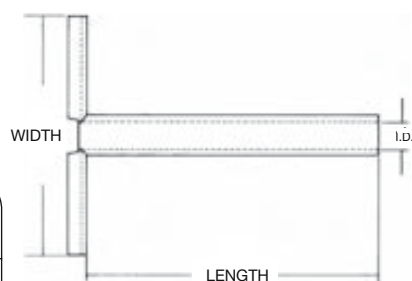


24-0072

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.

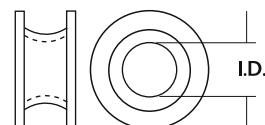
Catalog Number	Material	I.D.	Dimensions	Units per Package	Units per Box
24-0071	Blue Silicone	1.14mm	12mm L x 9.8mm W	1	6
7024-5014	Blue Silicone	1.14mm	12mm L x 9.8mm W	1	30
24-0059	Blue Soft Silicone	1.14mm	12mm L x 9.8mm W	1	6
24-5706	Blue Silicone	1.14mm	12mm L x 9.8mm W	2	60
7024-1071	Blue Ultrasil™ Silicone	1.14mm	12mm L x 9.8mm W	1	6



24-0071

Venturi + Plus Ventilation Tube

Catalog Number	Material	Description	I.D.	Units per Package	Units per Box
7014-5278	Titanium	+ Hydromer™ Coated	1.27mm	1	6



7014-5278

Myringotomy Accessories

Tube Inserters, Myringotomy Case

Morgan Ventilation Tube Inserters



13-0546

Catalog Number	Size	Shaft Diameter	Shaft Length	Material	Finish
13-0546	Small	0.9mm/0.04"	106mm/4.2"	Stainless Steel	Vapor Blast
13-0547	Medium	1mm/0.04"	106mm/4.2"	Stainless Steel	Vapor Blast
13-0548	Large	1.2mm/0.05"	106mm/4.2"	Stainless Steel	Vapor Blast

Myringotomy Case



13-1413

Catalog Number	Description	Dimensions
13-1413	Holds 6 ear specula, 3 alligators, 3 suction tubes, and 6 picks. Large pocket to hold larger miscellaneous instruments. Includes lid and finger mat.	10" x 2.5" x 10.5"

Richards T-Tube Inserter



13-0549

Catalog Number	Shaft Diameter	Shaft Length	Material	Finish
13-0549	1.2mm/0.047"	97.5mm/3.8"	Stainless Steel	Satin

Richards Universal T-Tube Inserter



13-0550

Catalog Number	Shaft Length	Material	Overall Length	Finish
13-0550	80mm/3.15"	Stainless Steel	200mm/7.8"	Satin

Richards Universal T-Tube Inserter (Inserter Stylus)

For use with 13-0550.

Catalog Number	Handle Style	Tip Diameter	Overall Length	Finish
13-0551	Round, Knurled	11mm/0.43"	26mm/1.02"	Vapor Blast



Standard Tip for Universal T-Tube Inserter

For use with 13-0550.

Catalog Number	Handle Style	Tip Diameter	Shaft Length	Finish
13-0553	Round, Knurled	1.7mm/0.067"	80mm/3.1"	Vapor Blast



Ventilation Tube Inserter

Polypropylene Handle/Stainless Steel Shaft

Sterile Package

Catalog Number	Description	Units per Box
13-0710	Disposable Ventilation Tube Inserter (1.14mm/0.45" I.D. Ventilation Tubes)	6

U.S. Patent No. 3,897,786



Myringotomy Accessories



23-0030

Micro-Instrument Wipes

Sterile Package

Catalog Number	Description	Units per Box
23-0030	3.5" x 3.5" Nonfibrous Sponge	48



89-0205

Set-Up Myringotomy Kit

Sterile Package

Catalog Number	Description
89-0205	Set-Up Myringotomy Kit, Child Contains: 1 Billeau Wax Curette 1 16 Gauge Suction Needle with Bypass 1 Myringotomy Knife, Sickle Blade, Contoured Handle 1 Ventilation Tube Inserter (For 1.14mm I.D. Tubes) 3 Specula (3mm, 4mm and 5mm)
89-0206	Set-Up Myringotomy Kit, Adult Contains: 1 Billeau Wax Curette 1 16 Gauge Suction Needle with Bypass 1 Myringotomy Knife, Sickle Blade, Contoured Handle 1 Ventilation Tube Inserter (For 1.14mm I.D. Tubes) 3 Specula (4mm, 5mm and 6mm)



15-0179

Shea Foam Head Supports

Nonsterile

Catalog Number	Description
15-0179	Child
15-0180	Adult

U.S. Patent No. 3,694,831
Designed for John Shea, M.D., Memphis, TN.

Disposable Ear Suction Tubes
Polypropylene Handles/Stainless Steel Shaft (3" Long)
 Sterile Package



13-0783

Catalog Number	Description	Gauge	Units per Box
13-0718	Red without Bypass	14 (9 Fr.)	6
13-0720	Yellow without Bypass	16 (7 Fr.)	6
13-0722	Black without Bypass	18 (5 Fr.)	6
13-0724	Green without Bypass	20 (3 Fr.)	6
13-0783	Red with Bypass	14 (9 Fr.)	6
13-0785	Yellow with Bypass	16 (7 Fr.)	6
13-0787	Black with Bypass	18 (5 Fr.)	6
13-0789	Green with Bypass	20 (3 Fr.)	6

U.S. Patent No. D234,032

Myringotomy
Accessories

Blade Handles and Blades



Blade Handles
Stainless Steel

Catalog Number	Description	Length
13-0882	Hexagonal Wrench Locking Handle*	10cm
13-0883	Long Hexagonal Wrench Locking Handle*	15cm
13-0884	Flat Shaft Blade Handle*	10cm
13-0885	Round Knurled Wrench Locking Handle*	10cm
13-0886	Round, Self-Locking Handle*	13.5cm
7013-0932	Tapered Shaft Blade Handle	10cm
7013-0934	Round Shaft Blade Handle	10cm

Nonsterile, Reusable, *For Flat-Shafted Blades

Myringotomy Blades, Flat Shafted

Sterile Package

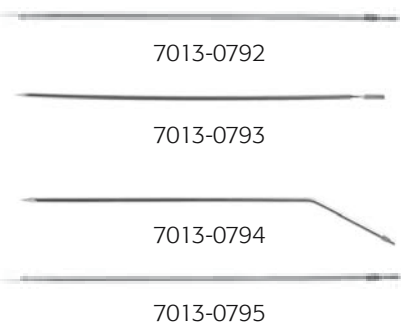


Catalog Number	Description	Material	Units per Box
7013-0780	Lancet Tip, Flat Shaft	Stainless Steel	12
7013-0781	Arrow Tip, Flat Shaft	Stainless Steel	12
7013-0933	Lance Juvenile, Flat Shaft	Stainless Steel	12

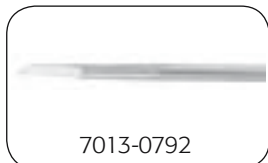


Myringotomy Blades, Round Shafted

Sterile Package



Catalog Number	Description	Units per Box
7013-0792	Razor Straight Blade	12
7013-0793	Spear MicroPoint Straight Blade	12
7013-0794	Spear MicroPoint Angled Blade	12
7013-0795	Upcutting, Round Shaft Blade	12



Myringotomy
Accessories

Blades and Knives

Myringotomy Blades, Tapered Shafts
Sterile Package

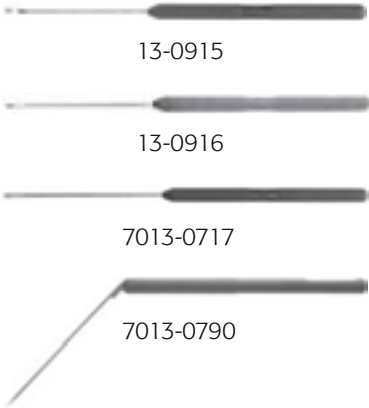
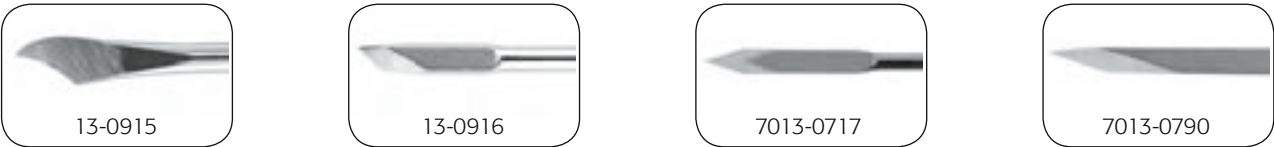
Catalog Number	Name	Material	Units per Box
7013-0927	Tapered Series-Straight Edge Angled Up Cut	Stainless Steel	6
7013-0928	Tapered Series-Straight Edge Angled Down Cut	Stainless Steel	6
7013-0929	Tapered Series-Straight Edge Straight Blade	Stainless Steel	6
7013-0930	Tapered Series-Spear Tip Angle Blade	Stainless Steel	6
7013-0931	Tapered Series-Spear Tip Straight	Stainless Steel	6



Myringotomy Knives, Disposable
 Polypropylene Handles/Stainless Steel Shafts
 Sterile Package

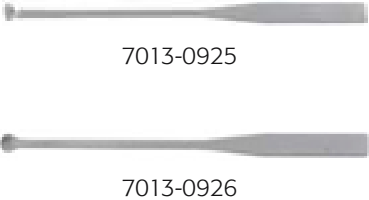
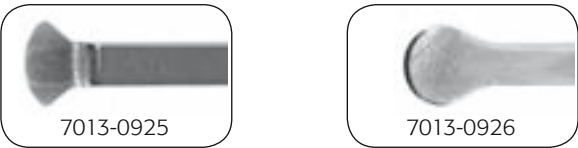
Catalog Number	Description	Units per Box
*13-0715	Sickle Blade, Flat Handle	6
*13-0716	Lancet Blade, Flat Handle	6
13-0915	Sickle Blade, Round Handle	6
13-0916	Lancet Blade, Round Handle	6
7013-0717	Arrow Blade, Round Handle	6
7013-0790	Lance Juvenile, Round Handle	6
7013-0791	Spear Juvenile, Round Handle	6

*U.S. Patent No. D234,032



Tympanoplasty Blades
 Sterile Package

Catalog Number	Description	Material	Units per Box
7013-0925	Angled Blade, Flat Shaft	Stainless Steel	6
7013-0926	Straight Blade, Flat Shaft	Stainless Steel	6



Contents

PACKING PRODUCTS

Nasal/Sinus Packs
Bacteriostatic PVA Sponge.....PSS-105

Nasal/Sinus Packs
Ballon Catheters,
Polyurethane Sponge.....PSS-110

Nasal/Sinus Packs
PVA Sponge, Rhino Rocket PSS-115

Otologic Packs.....PSS-120

SPLINTS AND STENTS

Nasal Splints PSS-125

Nasal/Sinus Stents,
Septum Buttons PSS-130

Nasal/Sinus Packs

Bacteriostatic PVA Sponge

Blu™ & 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™ & Blu Glide™ Sinus Packs

Polyvinyl Alcohol (PVA) Foam, Bacteriostatic

Sterile Package

Pieces per Pouch: 2

Pouches per Box: 10

Catalog Number	Name	Description	Dimensions in Hydrated State
7089-0844	Blu™	K-Style Sinus	3.5cm L x 0.9cm W x 1.2cm H
7089-0845	Blu Glide™	K-Style Sinus	3.5cm L x 0.9cm W x 1.2cm H
7089-0846	Blu™	B-Style Sinus	2.5cm L x 0.9cm W x 2cm H
7089-0847	Blu Glide™	B-Style Sinus	2.5cm L x 0.9cm W x 2cm H
7089-0848	Blu™	T-Style Sinus	4.5cm L x 0.9cm W x 2cm H
7089-0849	Blu Glide™	T-Style Sinus	4.5cm L x 0.9cm W x 2cm H
7089-0850	Blu™	K-Style Slim	3.5cm L x 0.6cm W x 1.2cm H
7089-0851	Blu Glide™	K-Style Slim	3.5cm L x 0.6cm W x 1.2cm H
7089-0852	Blu™	B-Style Slim	2.5cm L x 0.6cm W x 2cm H
7089-0853	Blu Glide™	B-Style Slim	2.5cm L x 0.6cm W x 2cm H
7089-0854	Blu™	T-Style Slim	4.5cm L x 0.6cm W x 2cm H
7089-0855	Blu Glide™	T-Style Slim	4.5cm L x 0.6cm W x 2cm H
7089-0861	Blu™	Sinus Kit, For Use Following Turbinectomy	Lg. 7cm L x 1.25cm W x 2.5cm H
7089-0862	Blu Glide™	Sinus Kit, For Use Following Turbinectomy	Sm. 4.5cm L x 1.25cm W x



7089-0844 / 7089-0845



7089-0846 / 7089-0847



7089-0848 / 7089-0849



7089-0850 / 7089-0851



7089-0852 / 7089-0853



7089-0854 / 7089-0855



7089-0861 / 7089-0862

Blu™ & 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™ & Blu Glide™ Nasal & Epistaxis Packs

Polyvinyl Alcohol (PVA) Foam, Bacteriostatic

Sterile Package

Pieces per Pouch: 1

Pouches per Box: 10

Catalog Number	Name	Description	Dimensions in Hydrated State
7089-0830	Blu™	Nasal, 4.5cm Small	4.5cm L x 1.5cm W x 2cm H
7089-0831	Blu Glide™	Nasal, 4.5cm Small	4.5cm L x 1.5cm W x 2cm H
7089-0832	Blu™	Nasal, 8cm Standard	8cm L x 1.5cm W x 2cm H
7089-0833	Blu Glide™	Nasal, 8cm Standard	8cm L x 1.5cm W x 2cm H
7089-0834	Blu™	Nasal, Small with Airway	4.5cm L x 1.5cm W x 2cm H
7089-0835	Blu Glide™	Nasal, Small with Airway	4.5cm L x 1.5cm W x 2cm H
7089-0836	Blu™	Nasal, Large with Airway	8cm L x 1.5cm W x 2cm H
7089-0837	Blu Glide™	Nasal, Large with Airway	8cm L x 1.5cm W x 2cm H
7089-0838	Blu™	Nasal, D-Style Anatomical, 8cm	8cm L x 1.5cm W x 3cm H
7089-0839	Blu Glide™	Nasal, D-Style Anatomical, 8cm	8cm L x 1.5cm W x 3cm H
7089-0840	Blu™	Nasal, D-Style Anatomical with Airway	8cm L x 1.5cm W x 3cm H
7089-0841	Blu Glide™	Nasal, D-Style Anatomical with Airway	8cm L x 1.5cm W x 3cm H
7089-0842	Blu™	Nasal, D-Style Anatomical, Slim	8cm L x 0.75cm W x 3cm H
7089-0843	Blu Glide™	Nasal, D-Style Anatomical, Slim	8cm L x 0.75cm W x 3cm H
7089-0856	Blu™	Epistaxis, Large	10cm L x 1.5cm W x 2.5cm H
7089-0857	Blu™	Epistaxis, Small	5.5cm L x 1.5cm W x 2.5cm H



7089-0830 / 7089-0831



7089-0832 / 7089-0833



7089-0834 / 7089-0835



7089-0836 / 7089-0837



7089-0838 / 7089-0839



7089-0840 / 7089-0841



7089-0842 / 7089-0843



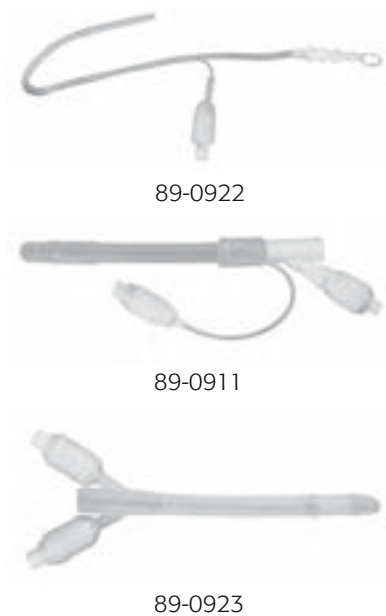
7089-0856



7089-0857

Nasal/Sinus Packs

Balloon Catheters, , Polyurethane Sponge



Balloon Catheters

Sterile Package

Catalog Number	Name	Description	Material	Units per Box
89-0922	Posterior Nasal Balloon Catheter	8 1/2" Long	Silicone	6
89-0911	Epistaxis Nasal Balloon Catheter	Sliding Cuff, 5" Long	Silicone	6
89-0912	Sliding Cuff Balloon Catheter Kit	Kit Contains One Sliding Balloon Catheter, One Syringe, and One 4 x 4 Gauze Sponge	Silicone	1
89-0923	Standard Epistaxis Nasal Balloon Catheter	Anterior Balloon Capacity 30cc Posterior Balloon Capacity 10cc	Silicone	6
7089-0929	Standard Epistaxis Balloon Catheter Kit	Kit Contains One Standard Balloon Catheter, One Syringe, and One 4 x 4 Gauze Sponge	Silicone	1
88-0911	Epistaxis Balloon Catheter	3-pack	Silicone	3

Hydrocell Nasal and Epistaxis Dressings

Hydrophilic Polyurethane

Sterile Package

Pieces per Pouch: 1

Pouches per Box: 6

Catalog Number	Name	Approximate Dry Dimensions	Approximate Wet Dimensions	Size
7089-0763	Nasal Dressing	3.8 x 0.6 x 1.4cm	4.2 x 0.8 x 1.7cm	Small
7089-0764	Nasal Dressing	7 x 0.6 x 1.4cm	7.4 x 0.8 x 1.7cm	Large
7089-0765	Epistaxis Dressing	4.3 x 0.8 x 1.9cm	4.7 x 1 x 2.1cm	Small
7089-0766	Epistaxis Dressing	7.3 x 0.8 x 1.9cm	7.7 x 1 x 2.1cm	Large



7089-0764



7089-0766

Hydrocell Sinus Dressings

Hydrophilic Polyurethane

Sterile Package

Pieces per Pouch: 1

Pouches per Box: 12

Catalog Number	Description	Approximate Dry Dimensions	Approximate Wet Dimensions
7089-0760	Sinus Dressings, Small	1.7 x 0.5 x 1cm	1.9 x 0.8 x 1.2cm
7089-0761	Sinus Dressings, Medium	2.5 x 0.5 x 1cm	2.8 x 0.8 x 1.2cm
7089-0762	Sinus Dressings, Large	3.3 x 0.5 x 1cm	3.6 x 0.8 x 1.2cm

Nasal/Sinus Packs

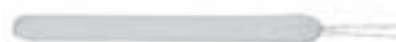
PVA Sponge, Rhino Rocket

Expandacell Nasal Packs

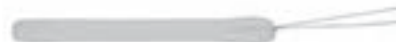
Polyvinyl Alcohol (PVA) Foam

Sterile Package

Units per Box: 6



7089-0731



7089-0734



7089-0740



7089-0742



7089-0743

Catalog Number	Description	Compressed Size	Expanded Size	Size
7089-0728	Nasal Pack, Wide Line	3 x 0.7 x 0.6cm	3 x 2 x 1.5cm	Small
7089-0729	Nasal Pack, Wide Line	5 x 0.7 x 0.6cm	5 x 2 x 1.5cm	Medium
7089-0730	Nasal Pack, Wide Line	8 x 0.7 x 0.6cm	8 x 2 x 1.5cm	Large
7089-0731	Nasal Pack, Wide Line	10 x 0.7 x 0.6cm	10 x 2 x 1.5cm	X-Large
7089-0732	Nasal Pack, Slim Line	3 x 0.7 x 0.2cm	3 x 2 x 1cm	Small
7089-0733	Nasal Pack, Slim Line	5 x 0.7 x 0.2cm	5 x 2 x 1cm	Medium
7089-0734	Nasal Pack, Slim Line	8 x 0.7 x 0.2cm	8 x 2 x 1cm	Large
7089-0735	Nasal Pack, Slim Line	10 x 0.7 x 0.2cm	10 x 2 x 1cm	X-Large
7089-0740	Nasal Pack, Wide Line, Cannulated	5 x 1 x 0.7cm	5 x 2 x 1.5cm	Medium
7089-0741	Nasal Pack, Wide Line, Cannulated	8 x 1 x 0.7cm	8 x 1 x 0.7cm	Large
7089-0742	Nasal Pack, Anatomic With Airway	8 x 1.3 x 0.7cm	8 x 1.5 x 3cm	
7089-0743	Nasal Pack, Anatomic Without Airway	8 x 1 x 0.7cm	8 x 1.5 x 3cm	

Expandacell Sinus Packs

Polyvinyl Alcohol (PVA) Foam

Sterile Package

Units per Box: 6



7089-0739

Catalog Number	Description	Compressed Size	Expanded Size	Size
7089-0737	Sinus Pack	2.4 x 1 x 0.2cm	2.4 x 1 x 0.8cm	Small
7089-0738	Sinus Pack	2.8 x 1.2 x 0.2cm	2.8 x 1.2 x 0.8cm	Medium
7089-0739	Sinus Pack	3.2 x 1.2 x 0.2cm	3.2 x 1.2 x 1cm	Large

Rhino Rocket Nasal Packs

Polyvinyl Alcohol (PVA) Foam

Sterile Package

Units per Box: 6

Units per Package: 1

Catalog Number	Description	Compressed Size	Expanded Size	Size
7089-0750	Slim Line	3 x 0.7 x 0.2cm	3 x 2 x 1cm	Small
7089-0751	Slim Line	5 x 0.7 x 0.2cm	5 x 2 x 1cm	Medium
7089-0752	Slim Line	8 x 0.7 x 0.2cm	8 x 2 x 1cm	Large
7089-0753	Slim Line	10 x 0.7 x 0.2cm	10 x 2 x 1cm	Extra Large
7089-0754	Wide Line	3 x 0.7 x 0.6cm	3 x 2 x 1.5cm	Small
7089-0755	Wide Line	5 x 0.7 x 0.6cm	5 x 2 x 1.5cm	Medium
7089-0756	Wide Line	8 x 0.7 x 0.6cm	8 x 2 x 1.5cm	Large
7089-0757	Wide Line	10 x 0.7 x 0.6cm	10 x 2 x 1.5cm	Extra Large



7089-0750

Otologic Packs



7089-0858 / 7089-0859

Blu Ear Wick

Polyvinyl Alcohol (PVA) Foam, Bacteriostatic
Sterile Package

Catalog Number	Name	Description	Dimensions in Hydrated State	Pieces per Pouch	Pouches per Box
7089-0858	Blu	Ear Wick	9.0mm x 15.0mm	1	50
7089-0859	Blu	Ear Wick	9.0mm x 24.0mm	1	10



7089-0860

Blu Ear Packing

Polyvinyl Alcohol (PVA) Foam, Bacteriostatic
Sterile Package

Catalog Number	Name	Description	Dimensions in Hydrated State	Pieces per Pouch	Pouches per Box
7089-0860	Blu	Ear Packing with Drawstring	12.0mm x 15.0mm	1	10



7014-0095

Ear Wick

Now external otitis can be treated with the 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.

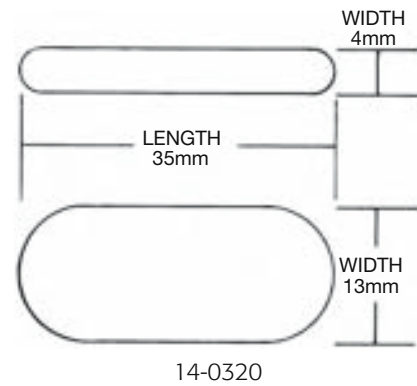
Sterile Package

Catalog Number	Approximate Dry Dimensions	Approximate Wet Dimensions	Units per Package
7014-0095	14mm Long, 2.35mm Wide	15mm Long, 9mm Wide	48

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 Ringers' 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.

Catalog Number	Width	Thickness	Overall Length	Units per Package
14-0320	4mm	0.13mm	35mm	12
14-0322	13mm	0.13mm	35mm	6

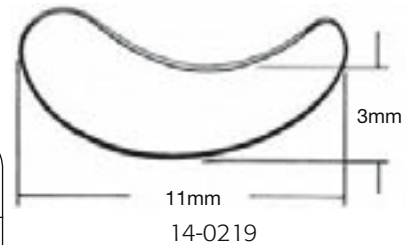


Schuknecht Crescent

Fluoroplastic

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.

Catalog Number	Thickness	Overall Length	Units per Box
14-0219	0.06mm	11mm	1

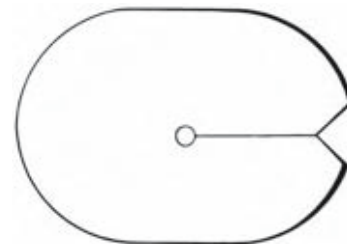


Designed for Harold F. Schuknecht, M.D., Boston, MA.

Schuknecht Oval Disc

The disc is designed to slip around a wire prosthesis to prevent adhesions.

Catalog Number	Dimensions
14-5222	3.2 x 4.5mm



Designed for Harold F. Schuknecht, M.D., Boston, MA.

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.

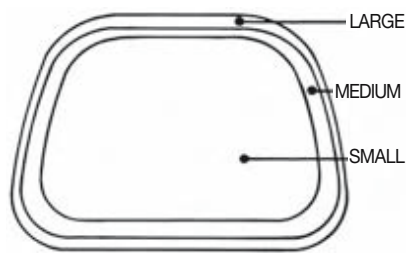
Catalog Number	Size	Diameter	Thickness	Units per Box
14-0175	Small	8.5mm	0.25mm	1
14-0176	Large	9.5mm	0.25mm	1

Designed for Mr. N. Shah, F.R.C.S., D.L.O., London, England.



14-0175

Nasal Splints



89-0904

AccuForm External Nasal Splints

Catalog Number	Description	Size	Units per Box
89-0904	Splints Only	Small	20
89-0905	Splints Only	Medium	20
89-0906	Splints Only	Large	20

Developed in cooperation with J. Michael Key, M.D., Guillermo Tellez, M.D., and Stephen J. Wetmore, M.D., of the University of Arkansas, Little Rock, AR.



7089-0907

Universal External Nasal Splints

Aluminum
Sterile Package
Units per Box: 6

Catalog Number	Size
7089-0907	Small/Medium
7089-0908	Large

Bivalve Internal Nasal Splints

Units per Box: 12

Catalog Number	Description	Thickness	Dimensions
89-0916	Bivalve Splint, Standard Thin	0.25mm	42mm L x 26mm W
89-0917	Bivalve Splint, Standard Thick	0.5mm	42mm L x 26mm W
89-0918	Bivalve Splint, Large, Thin	0.25mm	60mm L x 38mm W
89-0919	Bivalve Splint, Large, Thick	0.5mm	60mm L x 38mm W
89-0920	Bivalve Splint, Custom, Thin	0.25mm	64mm L x 42mm W
89-0921	Bivalve Splint, Custom, Thick	0.5mm	64mm L x 42mm W



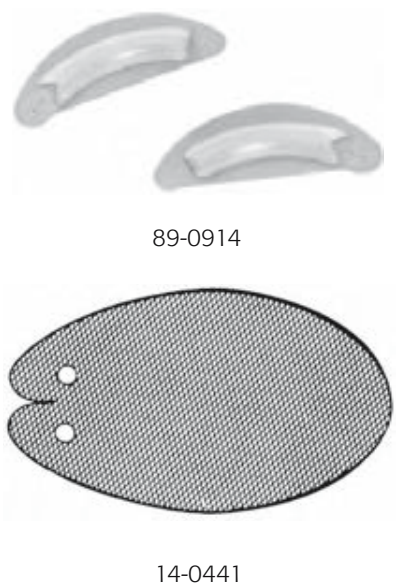
Nasal Septal Splints

Silicone

Sterile Package

Catalog Number	Description	Dimensions	Pairs per Box
89-0914	With Airway--Standard*	2.77" L x 0.93" W x 0.27" D	6
89-0915	With Airway Small*	2.71" L x 0.92" W x 0.25" D	6
14-0441	Neiman**	1.67" L x 1.00" W x 0.03" D	1

*Designed for Thad Pope, M.D., Crawfordsville, IN.
**Designed for Leon Neiman, M.D., Akron, OH.



Nasal/Sinus Stents, Septum Buttons



7089-0931

Rains Frontal Sinus Stents

Sterile Package

Units per Box: 6

Units per Package: 1

Catalog Number	Size	Shaft Diameter	Shaft I.D.	Shaft Length	Stent Length
7089-0931	Large	5.2mm	3.7mm	39mm	52mm
7089-0932	Standard	4mm	3.2mm	38mm	48mm

Designed for B. Manrin Rains III, M.D.



89-0913

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.

Units per Box: 6 pairs

Sterile Package

Package Quantity: Twin Packed

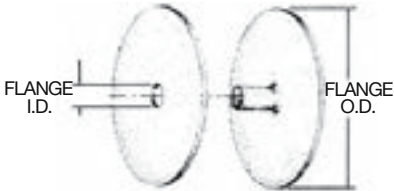
Catalog Number	Name
89-0913	Sinuspacer Turbinate Stent

Plasti-Pore Septal Button

Gyrus ENT's Plasti-Pore Button is 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.

Catalog Number	Material	Flange I.D.	Flange O.D.	Flange Thickness	Units per Box
14-0840	Plasti-Pore	0.64mm	25mm	3mm	1



14-0840

Silicone Septal Button

Medical Grade Silicone

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.

Catalog Number	Description	O.D.	I.D.	Wall Thickness	Total Thickness	Units per Box
89-0924	One Piece Silicone Septal Button	1 - 1/4"	1/4"	.035"	.18"	1



89-0924

EVIS EXERA II Universal Imaging Platform	EQ-020	CLV-180 EVIS EXERA II Xenon Light Source	EQ-320
CV-180 EVIS EXERA II Video System Center	EQ-025	CLV-S40 VISERA Xenon Light Source	EQ-339
OTV-S7Pro VISERA Pro Video System Center	EQ-116 EQ-117	Xenon E180 Xenon Light Source	EQ-340
OTV-SI ENT Office Video Endoscopy System	EQ-130	CLH-250 Light Source	EQ-350
		CLK-4 Halogen Light Source	EQ-352
		OTV-SC, CLH-SC Compact Office Video System	EQ-355
		EndoLED Miniature Light Source	EQ-370
		TC-C2-PS Compact Trolley	EQ-674

EVIS
EXERA II



As the pioneering company in the field of endoscopy, Olympus is committed to providing physicians with the tools they need to perform the most challenging procedures with confidence. That means designing endoscopes and accessories that provide ease of operation and maneuverability, while offering the top quality and superior performance needed to achieve consistent, reliable results. You will get all that and more with the all-new EVIS EXERA II 180 Series system. Featuring unprecedented image quality, enhanced optics, ultra-slim design, expanded compatibility, and refined ergonomics, EVIS EXERA II sets a new standard of excellence for examination and treatment in the upper and lower gastrointestinal tract. EVIS EXERA II. Take endoscopy to the next level.

Experience the new standard in endoscopic imaging with this advanced HDTV compatible video processor.



High-resolution HDTV images*

In our quest for the best-possible image quality, it was only natural that we add HDTV to EVIS EXERA II's impressive features. The HDTV images produced by EVIS EXERA II are composed of more than double the number of scanning lines and horizontal pixels used in conventional video systems. The tremendous increase in image information produces a picture that is incredibly sharp and detailed with virtually no detectable pixelation or artifacts. With HDTV, it is now possible to accurately render capillaries and subtle mucosal structures throughout the screen area. This enhanced image quality may improve diagnostic capability and procedural efficiency.

* Available with HD EndoEYE, camera heads OTV-S7ProH-HD-12E/Q, and the GiF-H180 and CF-H180AL/I

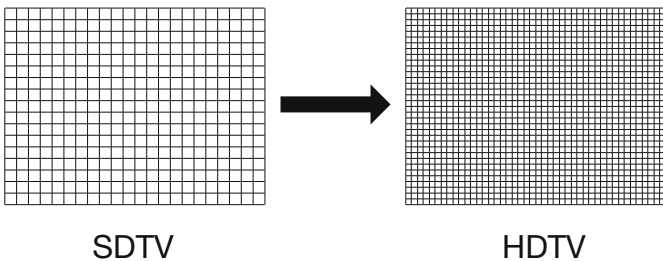
What is HDTV?

HDTV — or high-definition television — offers image quality comparable to film and all the convenience and flexibility of conventional video. With 1,080 effective scanning lines of picture information, compared to 480 for NTSC and 576 for PAL, HDTV delivers picture quality that is more than twice as good as conventional TV. Increased pixel density produces a smooth clear picture whose remarkable detail, and natural colors are unmarred by the pixelation seen in lower-resolution images. This superb quality and realism makes HDTV ideal for demanding imaging applications such as endoscopy.

Video System Center CV-180

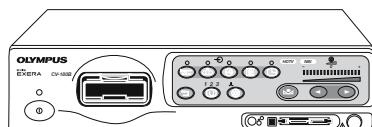


HD/SD SDI output for high-quality video image transfer



EXERA II Video System Center

CV-180 Video system center



Delivery includes:

Video system center, keyboard, power cable, scope cable, HDTV/SDTV monitor cable, foot holder, 2 spare fuses, white cap, white cap holder, scope cable holder, water container

Technical Data

Power supply

Voltage.....220–240 V ~

Frequency 50/60 Hz

Power consumption.....150 VA

Size (control unit)

Dimensions 382 (W) x 91 (H) x 490 (D) mm

Weight.....10.5 kg

Classification

Protection against electric shock class 1

Type.....depending on applied part

Observation

HDTV signal output.....RGB, YPbPr, SDI

SDTV signal output.....RGB, YPbPr, SDI, VBS
(composite), Y/C, FireWire* (IEEE 1394)

Recording

Video tape recording.....RGB, Y/C, VBS (composite)

Digital video SDI, FireWire* (IEEE 1394)

Still images.....PC Card interface,
adapter available for
xD-Picture Card** and SmartMedia***

Compatibility

The EVIS EXERA II video system center CV-180 is compatible to:

- HD EndoEYE videoscopes
- EndoEYE videoscopes
- VISERA flexible videoscopes
- HD camera heads (EXERA II, see right column)
- 1CCD camera heads (VISERA Pro, see sheet EQ-117)

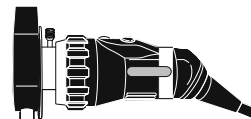
Camera Heads

Camera head, HDTV 1080, angled,
with three remote control switches,
autoclavable,
with integrated video adapter
(clamping connector),

OTV-S7ProH-

-HD-10E 1.0x

-HD-12E 1.2x



head size (focus ring x total length) Ø 41 x 105 mm

weight 215 g (excluding cable)

cable Ø 6.8 mm x 4 m

Camera head, HDTV 1080, angled,
with three remote control switches,
autoclavable,
with integrated video adapter

OTV-S7ProH-

-HD-10Q 1.0x

-HD-12Q 1.2x



head size (focus ring x total length) Ø 35 x 124 mm

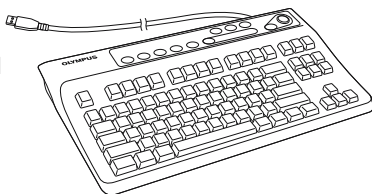
weight 215 g (excluding cable)

cable Ø 6.8 mm x 4 m

Accessories

MAJ-1428

Keyboard,
including keyboard
cover MAJ-1557



MAJ-1557

Keyboard cover (not shown)

MAPC-10U

PC-card XD-adaptor

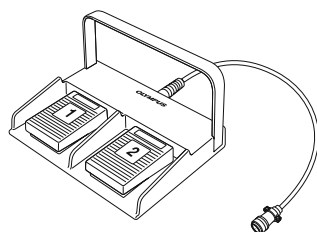


202169

xD 1GB memory card,
for MAPC-10U

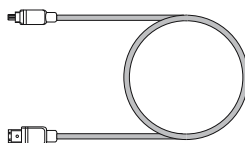
MAJ-1391

Foot switch



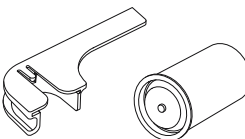
E0495702

Cable, FireWire*,
6 pin to 6 pin,
IEEE 1394



MAJ-941

White cap, set,
for white balance,
includes white cap MH-155 and
white cap holder MAJ-960



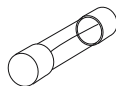
MAJ-1466

Scope cable holder



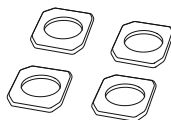
MAJ-1432

Spare fuse,
2 pcs.



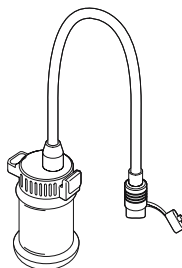
MAJ-1433

Foot holder,
4 pcs.



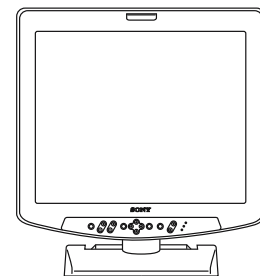
MAJ-901

Water container



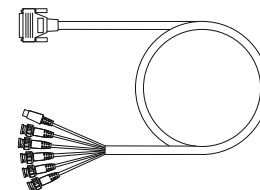
High Definition Monitor

LMD-1950MD/HD LCD monitor,
medical grade,
19" HD



MAJ-1586

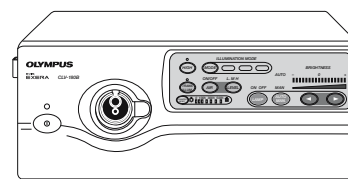
HDTV/SDTV monitor cable,
2 m length



Light Source CLV-180

CLV-180

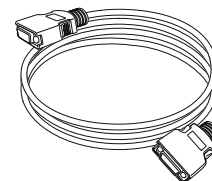
Light source



For details, see sheet EQ-320.

MAJ-1411

Cable,
for light control,
connects CV-180
to light source CLV-180



MAJ-1567

Cable (not shown),
for light control,
connects CV-180 to light sources
CLV-S40/-S30/-S20/-U40

* FireWire is a registered trademark of Apple Computer, Inc.

** xD-Picture Card is a registered trademark of Fuji Photo Film Co., Ltd.

*** SmartMedia is a registered trademark of Toshiba Corp.

OTV-S7Pro

VISERA Pro Video System Center



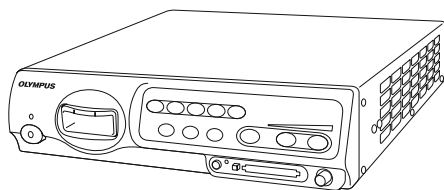
Experience the new standard in endoscopic imaging with this advanced HDTV compatible video processor.

- ✓ Equipped with high resolution HDTV 1080i imaging capability to provide the best possible image quality for flexible and rigid telescopes, enabling comprehensive observation of different organs and tissue.
- ✓ Compatible with wide range of endoscopes, both for office and O.R.



VISERA Pro Video System Center

OTV-S7Pro VISERA Pro Video System Center



Delivery includes:

system center, power cable, 4 foot holders MAJ-1433,
2 spare fuses MAJ-1432, keyboard MAJ-944,
monitor cable MAJ-970

Technical Data

Power supply

Voltage.....100–240 V

Frequency.....50/60 Hz

Power consumption.....150 VA

Dimensions (control unit)

W x H x D.....382 x 91 x 490 mm

Weight.....9.5 kg

Protection against electric shock.....Class I

For PC card adapter, see sheet EQ-030.

For HD Professional Disc Recorder, see sheet EQ-030.

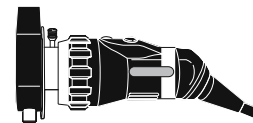
Camera Heads

Camera head, HDTV 1080, angled,
with three remote control switches,
autoclavable,
with integrated video adapter

OTV-S7ProH- (clamping connector),

-HD-10E 1.0x

-HD-12E 1.2x



head size (focus ring x total length) Ø 41 x 105 mm

weight 215 g (excluding cable)

cable Ø 6.8 mm x 4 m

Camera head, HDTV 1080, angled,
with three remote control switches,
autoclavable,
with integrated video adapter

OTV-S7ProH- (quick-lock connector),

-HD-10Q 1.0x

-HD-12Q 1.2x



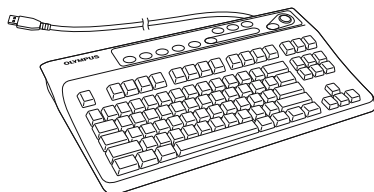
head size (focus ring x total length) Ø 35 x 124 mm

weight 215 g (excluding cable)

cable Ø 6.8 mm x 4 m

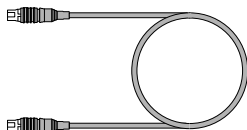
VISERA Pro Accessories

MAJ-1428 Keyboard,
including keyboard
cover MAJ-1557



MAJ-1557 Keyboard cover (not shown)

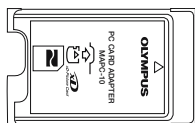
MAJ-1411 Cable,
for light control,
connects OTV-S7Pro
to light source CLV-S40Pro



For light source CLV-S40Pro, see sheet EQ-339.

MAPC-10U PC-card XD-adapter

202169 xD 1GB memory card,
for MAPC-10U



OTV-S7Pro

VISERA Pro Video System Center
(cont.)

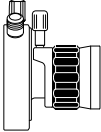
VISERA Pro Camera Heads

OTV-S7H-N OTV-S7H-1N	Camera head, standard, angled, with two remote control switches, without moiré filter	
	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		
OTV-S7H-1D	Camera head, 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		

VISERA Pro Autoclavable Camera Heads

	Camera head, autoclavable, standard, angled, with two remote control switches,	
OTV-S7H-NA	without moiré filter	
OTV-S7H-1NA	with moiré filter	
head size (from mount surface) Ø 29 x 85 mm		
weight 125 g (excluding cable)		
cable Ø 6.8 mm x 4 m		
OTV-S7H-VA	Camera head, autoclavable, for TrueView Direct telescopes	

Video Adapters

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

OTV-SI

ENT Office Video Endoscopy System

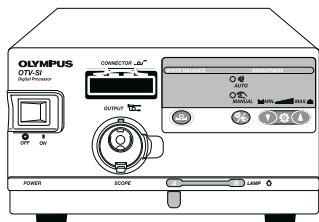


To meet the needs for higher quality imaging in ENT office examinations, we introduce OTV-SI, a videoscope system that delivers the same true color, high-resolution video imaging that has become the trademark of Olympus endoscopes worldwide. With a compact design for efficient use of limited office space, its versatility permits the use of your existing fiber-optic endoscope and telescopes. OTV-SI – the new standard for ENT office video endoscopy.

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

ENT Office Endoscopy Video System

OTV-SI Video system “OTV-SI”



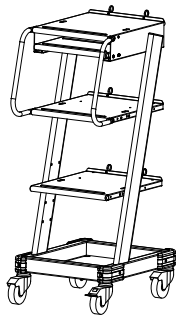
- Power supply
- Voltage 100–240 V
 - Frequency 50/60 Hz
 - Input current.....1.2 A (100–240 V)
- Size
- Dimensions 300 (W) x 171 (H) x 434 (D) mm
 - Weight 12 kg
- Classification
- Protection against electric shock.....class 1, type BF
- Illumination
- Lamp 150 W Halogen
 - Lamp life.....approx. 40 hrs.
on continuous use*
 - Brightness adjustment.....light-path diaphragm control

* In intermittent use, lamp life may differ slightly.

Cart

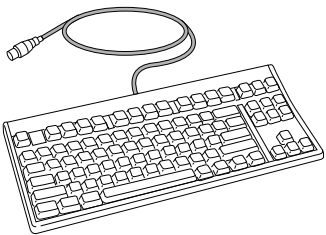
TC-C2-PS Cart

For details, see sheet EQ-674.



Accessories

MAJ-1124 Keyboard



MD-151 Spare bulb, for OTV-SI

Camera Heads

- Camera head, standard, angled,
with two remote control switches,
- OTV-S7H-N standard
- 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

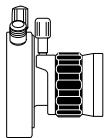
- Camera head, standard, straight,
with two remote control switches,
- OTV-S7H-1D with moiré filter



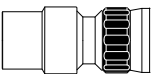
head size (from mount surface) Ø 27 x 37 mm
weight 40 g (excluding cable)
cable Ø 5.2 mm x 4 m

Video Adapter

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



- Video adapter,
quick lock type,
- AR-T10Q 1.0 x
- AR-T12Q 1.2 x



CLV-180

EVIS EXERA II Xenon Light Source



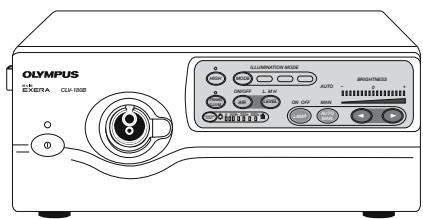
High-intensity 300 W light source delivers the illumination to drive HDTV and a new Narrow Band Imaging feature enhances visualization capabilities.

- ✓ Equipped with specially coated filters for NBI (Narrow Band Imaging)
- ✓ Compatible with:
Surgical endoscopes (HD EndoEYE and EndoEYE videoscopes, flexible VISERA videoscopes, and 1CCD/3CCD camera heads) and EVIS 100/130/140/160/180 Series endoscopes as well as bronchoscopes
- ✓ Automatically adjusts light intensity to achieve ideal illumination for observation of the gastrointestinal tract.
- ✓ Backlit front panel indicators and controls improve operability
- ✓ Equipped with special filter for PDD (Photo Dynamic Diagnosis, optionally available only in Europe)



EVIS EXERA II Xenon Light Source CLV-180

CLV-180 Light source,
Xenon,
300 W



Spare Lamps

MD-631 Spare lamp,
24 V, 300 W, Xenon,
for light sources CLV-180 and CLV-S40

Technical Data

- Power supply
- Voltage.....100–240 V ~
 - Frequency 50/60 Hz
 - Power consumption.....500 W
- Size
- Dimensions 383 (W) x 162 (H) x 536 (D) mm
 - Weight.....15.4 kg
- Classification
- Protection against electric shock class 1
type depending on applied part
- Illumination
- Lamp 300 W Xenon
 - Lamp life.....approx. 500 hrs.
on continuous use*
 - Brightness adjustment.....light-path diaphragm control
 - Emergency lamp Halogen (without mirror),
12 V, 35 W
 - Emergency lamp life.....approx. 500 hrs.
on continuous use*

* in intermittent use, lamp life may differ slightly

CLV-S40Pro

VISERA Pro Xenon Light Source

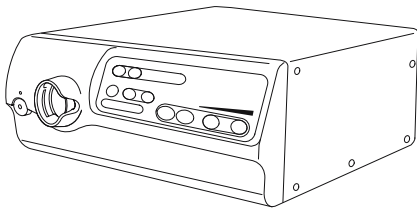


High-intensity 300-watt light source delivers the illumination to drive HDTV and a new Narrow Band Imaging feature enhances visualization capabilities.

- ✓ Equipped with specially coated filters for NBI (Narrow Band Imaging).
- ✓ Automatically adjusts light intensity to achieve ideal illumination for observation.
- ✓ Powerful 300-watt xenon lamp
- ✓ Backlit front panel indicators and controls improve operability.

VISERA Pro Light Source CLV-S40Pro

CLV-S40Pro Light source,
Xenon,
300 W



Spare Lamps

MD-631 Spare lamp,
24 V, 300 W, Xenon,
for light sources CLV-180 and CLV-S40

Technical Data

Power supply	
Voltage.....	100–240 V ~
Frequency	50/60 Hz
Power consumption	500 VA
Size	
Dimensions	383 (W) x 162 (H) x 536 (D) mm
Weight.....	14.9 kg
Classification	
Protection against electric shock	class 1
Illumination	
Lamp	300 W Xenon
Lamp life.....	approx. 500 hrs. on continuous use*
Brightness adjustment.....	light-path diaphragm control
Emergency lamp	Halogen (without mirror), 12 V, 35 W
Emergency lamp life.....	approx. 500 hrs. on continuous use*

* in intermittent use, lamp life may differ slightly

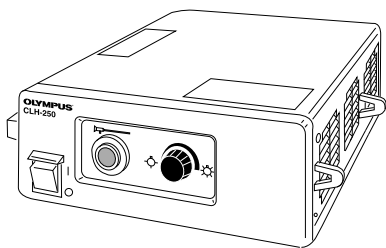


The Olympus CLH-250 Halogen light source offers a much higher level of brightness than conventional halogen light sources, making it well-suited for TV observation. Considering its capabilities, the CLH-250 is remarkably affordable, thus the right choice for any budget.

- ✓ Flat, compact design for maximum space efficiency
- ✓ Uncluttered front panel featuring only a light-guide jack and brightness control makes it easy to thoroughly clean the unit.
- ✓ Low initial costs and low running costs (lamp replacement costs are much lower than xenon units)

Light Source CLH-250

CLH-250 Light source,
 halogen,
 250 W



Spare Lamp

MH-968 Spare lamp,
 halogen, 250 W,
 for light source CLH-250

Technical Data

Power supply	
Voltage.....	120, 220–240 V ~
Input current.....	1.5 A (220–240 V)
Size	
Dimensions	295 (W) x 88 (H) x 375 (D) mm
Weight.....	9.5 kg
Classification	
Protection against electric shock	class 1
	type BF
Illumination	
Lamp	250 W halogen, AC
Colour temperature.....	3.250 K
Lamp life.....	approx. 50 hrs.
	on continuous use*
Brightness control.....	manual light-path diaphragm

* in intermittent use, lamp life may differ slightly

CLK-4

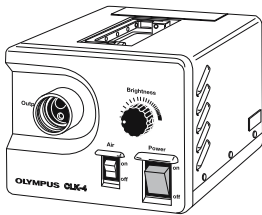
Halogen Light Source



- ✓ Small, lightweight design:
Redesigned for ease-of-use and portability.
- ✓ Versatile performance:
Instant connection of OES fiberscopes to the CLK-4, no adapters necessary. Built-in pump supplies a stable flow of either air or water for procedures, leak testing, or cleaning.
- ✓ Efficient endoscopic illumination

Light Source CLK-4

CLK-4 Light source,
 halogen,
 150 W

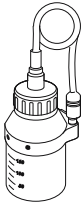


Delivery includes:
light source, power cable, water container MA-995

Accessories

MD-151 Spare lamp,
 halogen, 150 W,
 for light source CLK-4

MA-995 Water container,
 250 ml



Technical Data

Power supply	
Voltage	110 / 120 V ~
Input current.....	1.7 A
Size	
Dimensions	186 (W) x 151 (H) x 270 (D) mm
Weight.....	6 kg
Classification	
Protection against electric shock	class 1
	type BF
Illumination	
Lamp	150 W halogen, AC
Colour temperature.....	3.250 K
Lamp life.....	approx. 50 hrs.
	on continuous use*
Air feed	
Pump	electromagnetic vibrator
Pump pressure	0.3–0.6 kg/cm ² (at 0 cm ³ /min)
	0.18 kg/cm ² (at 2,000 cm ³ /min)
Water feed	
Method	air pressurization of water container
Water container	250 cm ³
	should not be used when more than 2/3 full

* in intermittent use, lamp life may differ slightly

OTV-SC CLH-SC

Compact Office Video System

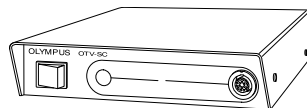


Designed especially to meet the need for low-cost video system suitable for endoscopic examinations on an out-patient basis, the OTV-SC video system provides good levels of resolution and brightness. This system focuses on essential functions, delivering the performance needed in the office at an affordable price.

- ✓ Office-camera with ultra-compact 1/4" chip and built-in moiré filter for optimum image quality
- ✓ Small and light-weight camera head
- ✓ Bright 150 W halogen light source for the office
- ✓ Uniform compact design and ease of use
- ✓ Manual brightness control

Video System OTV-SC

OTV-SC Control unit



Delivery includes: Control unit,
camera head "MAJ-554", Y/C cable, BNC cable, power cable

Technical Data

Power supply

Voltage.....220–240 V ~

Frequency 50/60 Hz

Size (control unit)

Dimensions.....220 (B) x 48 (H) x 290 (T) mm

Weight 2.1 kg

Classification

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

Observation

Pickup system.....1/4" CCD

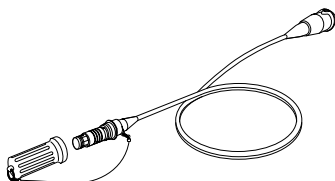
Interfaces

VBS signal 1 x

Y/C signal 2 x

MAJ-554 Camera head,
for OTV-SC

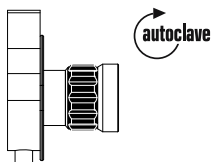
Weight 43 g,
Head size 23 x 46 mm,
Picture elements 470,000



Video adapter,
eyepiece type, autoclavable,

AR-T10EA 1.0 x

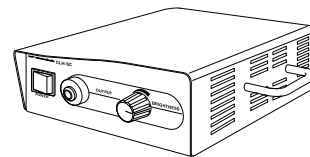
AR-T12EA 1.2 x



For other compatible video adapters,
see system chart and sheet EQ-121.

Light Source CLH-SC

CLH-SC Light source



Technical Data

Power supply

Voltage.....120, 220–240 V ~

Frequency 50/60 Hz

Size

Dimensions.....220 (B) x 74 (H) x 290 (T) mm

Weight 5 kg

Classification

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

Illumination

Lamp 150 W Halogen

Brightness control Light-path diaphragm
by using the dial on the front panel

300815 Spare lamp, 15 V, 150 W,
for CLH-SC

System Chart OTV-SC



EndoLED

Miniature Light Source



Mobility without compromise: Brightness and convenience
The Olympus EndoLED incorporates the latest LED technology delivering unprecedented white light with an excellent colour reproduction.

- ✓ Colour temperature like 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 for more comfort
- ✓ Highest reprocessing standards: fully immersible, washer and disinfectant compatible, sterilizable with Sterrad

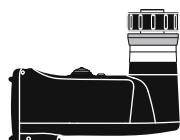
EndoLED Light Source

WA91500A Light source “EndoLED”,
for rigid endoscopes

for rechargeable batteries
(requires 2 batteries of 200899),
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 200899),
with battery status indicator (lasts up to 3 hrs.)

Technical Data

Dimensions

WA91500A 34 (W) x 112 (H) x 39 (D) mm

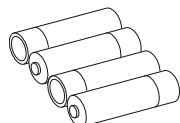
WA91502A 70 (W) x 90 (H) x 35 (D) mm

Weight (without batteries)

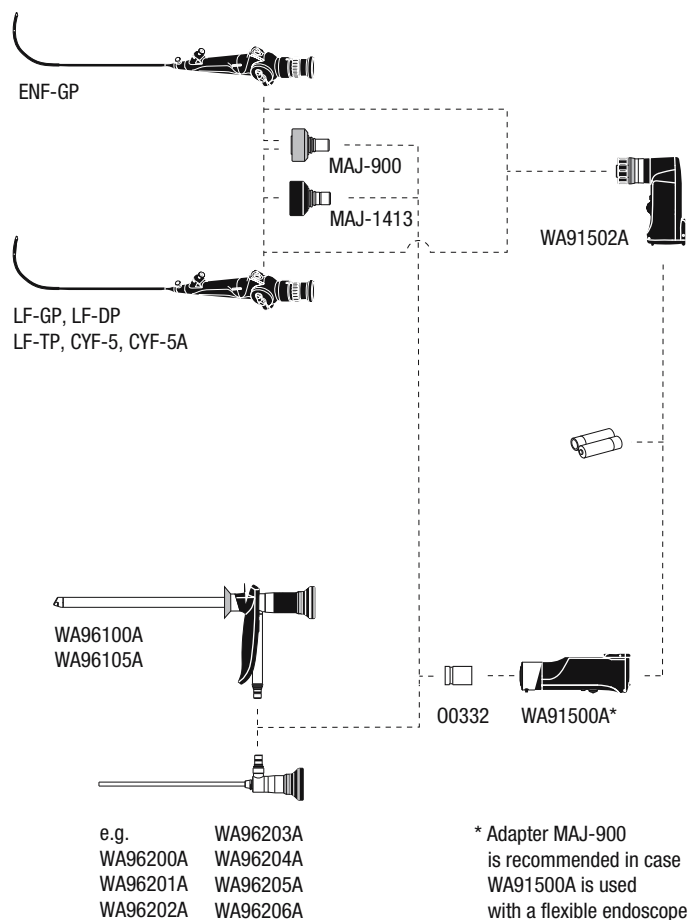
WA91500A 140 g

WA91502A 119 g

200899 4 rechargeable batteries,
AA type,
including recharger



System Chart



TC-C2-PS Compact Workstation

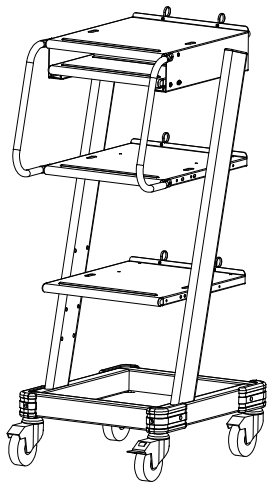


The TC-C2-PS is a compact workstation for use in conjunction with the Olympus VISERA system in the surgical and outpatient environment.

- ✓ Compact – ideal for use in outpatient settings where space is limited
- ✓ Adjustable shelf – the third shelf is fully adjustable to meet individual customer's 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 maneuverability.
- ✓ 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 multi-way plug block kit is available, reducing the number of trailing cables to the mains supply.

Compact Workstation TC-C2-PS

TC-C2-PS Workstation for office,
with plugblock,
includes MAJ-94 and MAJ-123



Technical Data

Dimensions

Height	1205 mm
Height (with monitor tray)	1467 mm
Width.....	563 mm
Depth	650 mm
Weight.....	33 kg (unladen)

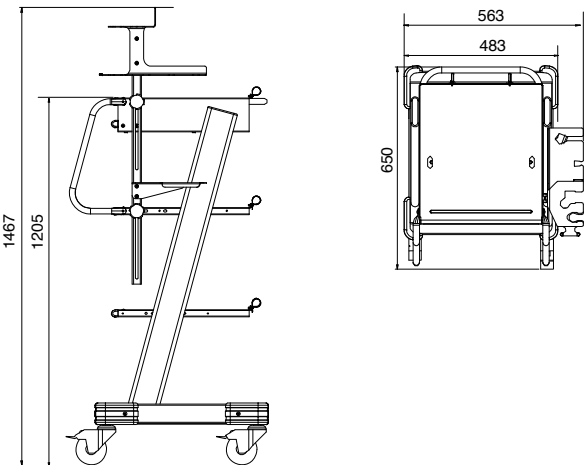
Load capacity

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.....4x 100 mm, 2 with brakes

Display includes:

Workstation, guard rail, extending keyboard tray,
adjustable scope hanger



Optional Accessories

MAJ-92	Gas cylinder holder
MAJ-94	Adjustable fiberscope hanger
MH-775	Adjustable IV pole kit
MAJ-88	Storage bay
MAJ-90	Back panel kit
MAJ-123	Multi-socket block kit
MAJ-110	Mounting, for KV-5 pump collection bottle
MAJ-89	Mounting, for KV-5 pump
MAJ-197	LCD mount adapter kit

More accessories available on request.

For more information call 800.262.3540

For order inquiries call 800.773.4301

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