

# Spiggle & Theis

was founded in Dieburg (Hesse, Germany) in 1994 as a German distribution company specialising in products for head and neck surgery. Thanks to motivated and capable staff, we were quickly able to establish ourselves as a competent partner for doctors and hospitals in the area of ENT surgery. Today we have made ourselves a name not only as a distributor, but also as a company specialising in the development and manufacture of surgical products. Export business is extremely important for us and plays a vital role in our growth strategy.

As we sell directly to hospitals in Germany, we appreciate the position of our overseas partners, and are aware of what is entailed in ensuring that their customers receive both the best products and service available. We continually increase our product range and are always on the lookout for new ideas, technologies and innovative products. Close contact to surgeons is vital as they generate the best ideas due to daily practice.

## History

- 1994 Founded in Dieburg by David Spiggle and Detlef Theis
- 1995 First Spiggle & Theis branded ear bandage
- 1996 Export sales 3% of total revenue
- 1997 Introduction of titanium ventilation tubes
- 1998 Introduction of shortenable titanium middle ear implants
- 1999 500 German hospitals as customers
- 2000 Introduction of micro drill / shaver system and flexible platinum eyelid implants
- 2002 Export sales increased by 600% since 1996
- 2003 Move with headquarter to Overath near Cologne
- 2004 Product portfolio reaches 1500 articles
- 2005 700 German hospitals as customers
- 2007 25% from total revenue comes from international sales
- 2007 Medal of Merit for Detlef Theis from the German Society of Otorhinolaryngology, Head and Neck Surgery
- 2008 Formation of ENT instrument department starting with full range of sinus instruments
- 2009 Bernd Schnieber becomes third General Manager
- 2009 Introduction of otological and rhinological instruments
- 2009 Export serves 60 countries, yielding 35% of total revenue
- 2010 Introduction of TubaVent®; Introduction of larynx and mouth instruments
- 2011 Instrument product range over 2.000 articles
- 2012 New company premises with office building and warehouse and training center
- 2013 Introduction of the Panetti set: First instruments world-wide for endoscopic ear surgery (EES)
- 2014 Twentieth anniversary; Complete range of endoscopic instruments for ENT diagnostics and ENT surgery
- 2015 1<sup>st</sup> international and 5<sup>th</sup> national symposium for the treatment of chronic Eustachian tube dysfunction in Hamburg
- 2016 Introduction of TubaClean® and other extensions of the tuba family for the Eustachian tube
- 2017 The German Society of Otorhinolaryngology, Head and Neck Surgery awards Spiggle & Theis Medizintechnik with the golden Needle of Honor; Introduction of the new HighSpeed micro drill and shaver system „SpeedSurg“
- 2018 Introduction of Black Line instruments; Introduction of new Panetti instruments for FESS surgery

*Please see our extensive range of high quality ENT-instruments in our instrument catalogue!*

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## 01 Otology

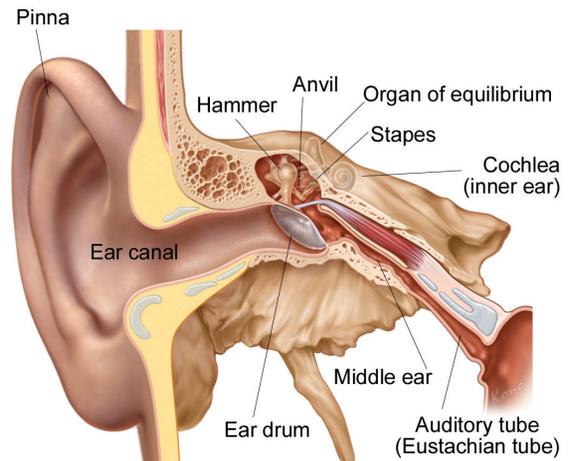
- **TubaVent®**
- Tubomanometry (TMM)
- TubaInsert® / TubaVent® short
- TubaClean®
- Ventilation Tubes
- Middle Ear Implants / Middle Ear Instruments / Stapes Protheses
- Silicone Sheeting
- Disposable Suction Tubes
- Ear Tampons

## Tuba Eustachii – Introduction

The tuba Eustachii – also called Eustachian tube or auditory tube – was named after the Italian anatomist Bartolomeo Eustachi who was the first to describe it. It is a narrow, tube-like connection between the nasopharynx and the middle ear with a length of about 3.5 centimetres in adults. It is lined with respiratory epithelial cells (ciliated epithelium) and consists of a longer cartilaginous part on the nasopharynx side and a shorter osseous part towards the tympanic membrane.

The Eustachian tube serves for pressure equalisation between the nasopharynx and the middle ear. This pressure equalisation is mainly achieved via swallowing and yawning where this connection is briefly opened and immediately closed again. Thus, pressure in the middle ear is normalised. By closing one's mouth and pinching one's nose shut with two fingers and at the same time trying to exhale, pressure in the nasopharynx may be increased thus achieving a passive opening of the Eustachian tube (Valsalva manoeuvre).

The natural way of supporting pressure equalisation consists in contracting certain throat muscles which open the entrance to the Eustachian tube during swallowing and yawning and cause the typical „clicking“ sound within the ear (this may require some training).

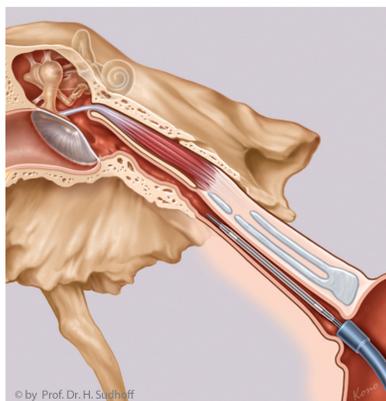


Another function of the Eustachian tube is the draining of secretions from the middle ear („drainage“). In case of diseases of the upper respiratory tract, the Eustachian tube may be narrowed due to swelling of the mucous membranes or, especially in children, serve as transport channel for an ascending bacterial infection causing inflammation of the middle ear (otitis media). Obstruction of the Eustachian tube leads to tympanic effusion.

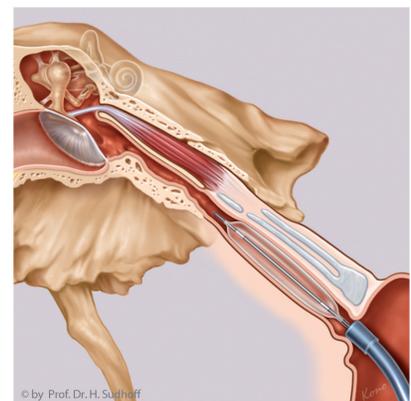
### Pressure on the ears?

If ventilation of the Eustachian tube is disturbed, pressure equalisation cannot be achieved. Unpleasant sensations like a feeling of pressure and muffled hearing remain.

A very good method for treating disturbed ventilation of the Eustachian tube is balloon dilation using *TubaVent*<sup>®</sup>. This minimally invasive intervention is performed under brief anaesthesia using a balloon: A doctor inserts a balloon catheter into the cartilaginous part of the Eustachian tube through the nose and / or mouth. Then he / she fills the balloon, building up a pressure of 10 bar and holding it for two minutes. This way, the bottlenecks within the auditory tube are dilated. This restores the function of the auditory tube thus allowing both the normal exchange of air and the equalisation of pressures.



Balloon deflated



Balloon inflated

In case of narrow anatomic conditions, for example in children, a shorter insertion path is better suited and allows easier handling. According to this requirement, *TubaVent*<sup>® short</sup> has been developed in combination with the single-use insertion instrument *Tubalinsert*<sup>®</sup>. The catheter has been optimally adapted to the single-use insertion instrument and equipped with an especially rounded tip.

The *TubaClean*<sup>®</sup> catheter was developed in order to be able to probe and flush the tube also in the course of middle ear surgery.



## The therapy concept in the treatment of chronic tube ventilation disorders

Obstructive tube dysfunction is a common chronic disorder in which the usual ventilation and the cleaning capability of the middle ear is restricted. Among other things, the consequences of this disorder is the development of chronic otitis media, that in the worst case can result in destruction of the middle ear (structures) and thus in hearing loss.

Prevalence of obstructive tube dysfunction is approximately 1% of the adult population<sup>1</sup>. *TubaVent*® the first causative therapy concept for the treatment of any obstructive dysfunction of the Tuba Eustachii (Eustachian tube) was developed in 2009.

1) Browning G, et al. The prevalence of middle ear disease in the adult British population. Clin Otolaryngol Allied Sci. 1992 Aug; 17(4):317-21

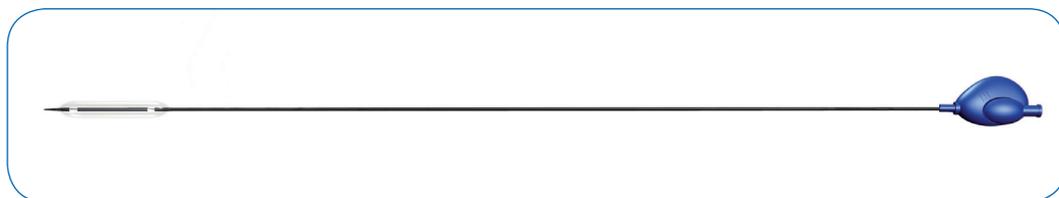


*"The use of microscopic and endoscopic technologies has revolutionised medicine and is state of the art today. With the development of balloon catheters, for example for the dilatation of heart coronaries, previously inconceivable revolutionary treatment concepts emerged. The transfer of this technology to the dilatation of the auditory tube provides the possibility for the first time to treat the cause of many chronic middle ear infections. Particularly for chronic tube dysfunctions or middle ear pathologies, there is now the opportunity to therapeutically approach the black box of otolaryngology. The new treatment concept provides the possibility for the first time to successfully treat chronic tube dysfunction and to provide our patients with a new treatment possibility for this previously untreatable condition."*

Prof. Dr. med. Holger Sudhoff,  
FRCS (Lon), FRCPath Senior consultant of the Klinikum Bielefeld (Ear, nose and throat, head and neck surgery clinic, Bielefeld medical centre)

### *TubaVent*® – Balloon catheter

- Optimum length guarantees the complete dilatation of the cartilaginous part
- Controlled dilatation to 3.28 mm Ø prevents overexpanding of the tube
- A rounded catheter tip and the special catheter surface (shaft & balloon) allow atraumatic advance of the catheter



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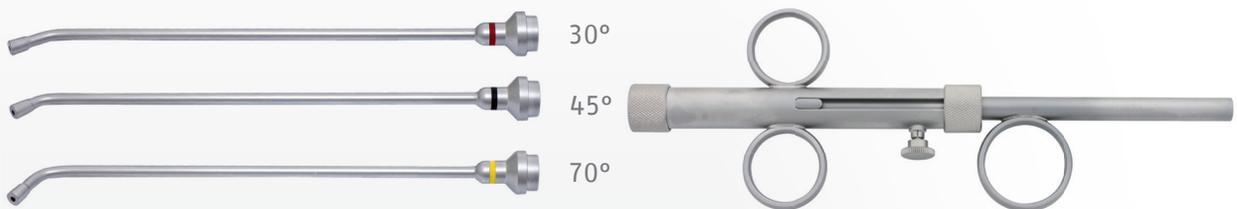
### TubaVent® - Combined insertion instrument

- Defined advance prevents penetrating into the bony part of the Tuba Eustachii



### Attachments

- For the insertion of a catheter into the Eustachian tube
- Includes three color-coded distal angled attachments (30°, 45°, 70°)



80-806-90 (Set inclusive combined insertion instrument)

### Attachments, tapered

- For the insertion of a catheter into the Eustachian tube
- Includes three color-coded distal angled **tapered** attachments (30°, 45°, 70°)



80-806-91 (Set inclusive combined insertion instrument)



## System screen basket for combined insertion instrument

- For combined insertion instrument and attachments
- With cover, retaining strap and silicone strips
- Rinsing module for cleaning the inner lumen
- Material: Stainless steel
- Dimensions: 24.4 cm x 24.4 cm

80-850-10



## Inflation device

- Inflation pump with extension tube for inflating balloon catheters
- Single use
- 20 ml syringe with detachable plunger using command switch, twist grip, pressure gauge and high-pressure connection using Luer-Lock rotary adapter
- Division from 0 to 30 atm, PSI scale
- Includes 100 cm - extension tube

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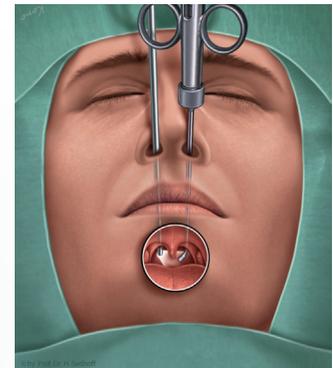




## Paths of access

### Contralateral access

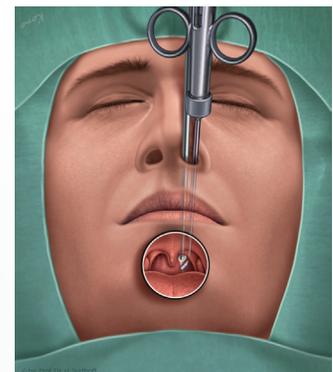
- Insert Hopkins optic on the contralateral side, a 70° for example
- Localise the tubal ostium
- Insert the *TubaVent*® with the combined insertion instrument and place at the tubal ostium
  - ! Avoid penetrating the Rosenmüller recess (recessus pharyngeus); this is in the direct vicinity of the tubal ostium
  - ! Do not insert the distal instrument too far into the ostium, in order to prevent any dilatation of the bony part
- Advance the catheter without resistance
- Connect the inflation pump
- Inflate the balloon to 10 bar
- Maintain pressure for 2 minutes
- Release pump lock and evacuate balloon
- Carefully remove the deflated catheter with the combined insertion instrument



Contralateral access

### Ipsilateral access

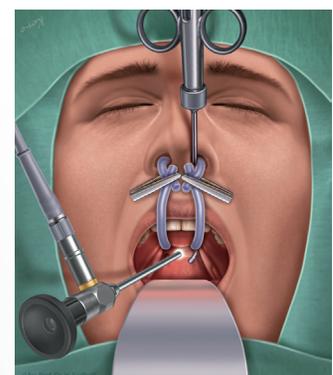
- Insert Hopkins optic, a 30° for example
- Carefully insert the *TubaVent*® with the combined insertion instrument, parallel to the optic, through the same nostril
  - ! Avoid penetrating the Rosenmüller recess (recessus pharyngeus); this is in the direct vicinity of the tubal ostium
  - ! Do not insert the distal instrument too far into the ostium, in order to prevent any dilatation of the bony part
- Advance the catheter without resistance
- Connect the inflation pump
- Inflate the balloon to 10 bar
- Maintain pressure for 2 minutes
- Release pump lock and evacuate balloon
- Carefully remove the deflated catheter with the combined insertion instrument
- This method may not be possible in narrow anatomical conditions



Ipsilateral access

### Pharyngeal access

- Insert Hopkins optic, a 70° for example, through the oral cavity; both tube openings are clearly visible
  - ! Avoid penetrating the Rosenmüller recess (recessus pharyngeus); this is in the direct vicinity of the tubal ostium
  - ! Do not insert the distal instrument too far into the ostium, in order to prevent any dilatation of the bony part
- Advance the catheter without resistance
- Connect the inflation pump
- Inflate the balloon to 10 bar
- Maintain pressure for 2 minutes
- Release pump lock and evacuate balloon
- Carefully remove the deflated catheter with the combined insertion instrument
- Advantageous for difficult anatomical conditions



Pharyngeal access



## 01 Otology

- TubaVent<sup>®</sup>
- **Tubomanometry (TMM)**
- TubaInsert<sup>®</sup> / TubaVent<sup>®</sup> short
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### Tubomanometry

A physiological function of the middle ear is to maintain the balance of pressure on both sides of the eardrum. In order to do this, a healthy Eustachian tube (Tuba Eustachii) opens many times a day, for a few milliseconds, allowing the exchange of gases between the nasopharynx and middle ear. This mechanism is disturbed however if there is a **chronic Eustachian Tube dysfunction**, or a **patulous Eustachian Tube**. This can lead to severe discomfort, when flying and diving. **Tubomanometry** according to Estève, opens new ways of quantitatively determining the function of the fibrocartilaginous tube, and thus the regulation of pressure in the middle ear, together with categorising unclear symptoms of ear pressure. It simulates pressure changes, such as those that typically occur during rapid descent when flying and measures the consequential reaction. **Tubomanometry** is used equally in diagnostics and to check patient results after tubal dilatation. The Eustachian Tube Scores ETS-7 and ETS-5 (based on **tubomanometry**) can be used in the case of a perforated eardrum.

- Reproducible results
- Outpatient treatment in a few minutes
- Non-invasive, atraumatic
- Can be used also on perforated eardrums
- Suitable for examining school-aged children and recommended for **diving fitness tests**



*"Tubomanometry, as a semi objective procedure, is a meaningful support in the diagnostics of tube dysfunction and is a good aid especially as a follow-up after treatment e.g. using balloon dilatation of the Eustachian tube. In particular the R-value can be used for evaluating tube function. After an initial training period, tubomanometry can be quickly and easily put to use, even by assistant personnel, and delivers reproducible results."*

Dr. med. Stefanie Schröder  
Specialist in otolaryngology,  
Rostock University Medical Center

### Functional principle

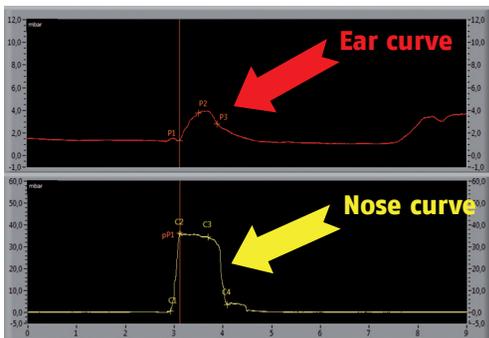
Application of pressure in the nasopharynx during the swallowing with simultaneous high-resolution measurement of pressure in the external auditory canal and in the nasopharynx

### Evaluation

$$R = \frac{(P1-C1)}{(C2-C1)}$$

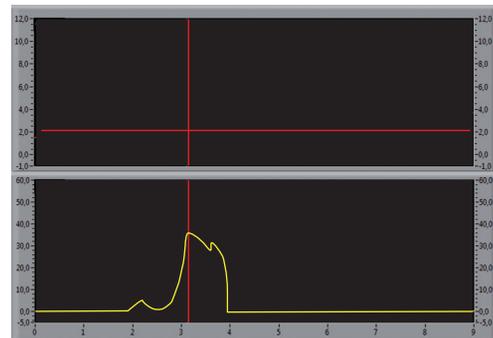
- R ≤ 1 : Timely tube opening (opening of the tube before C2)
- R > 1 : Delayed tube opening after C2
- no R : Tube does not open (no pressure fluctuation in the auditory canal)

### Normal tube function



Evaluation: R ≤ 1  
Timely tube opening (opening of the tube before C2)

### Tube ventilation disorder



Evaluation: R ≥ 1  
Delayed tube opening (after C2 evaluation)

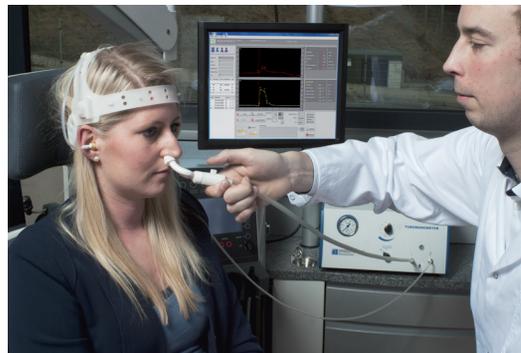
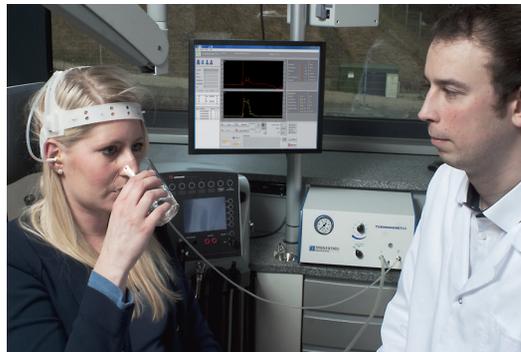


## Implementation

At the start of the swallowing process the tubomanometer (TMM) automatically exerts a calibrated excess pressure (of 30, 40, and 50 mbar) on the nasopharynx. (The device is able to automatically register the initial phase of the swallowing process and then, immediately yields a gas bolus with a pre-determined pressure level. The excess pressure initiates the opening of the fibrocartilaginous part of the Eustachian tube (Tuba Eustachii) and thereby enables gas transfer into the middle ear. Using an ear plug in the auditory canal, the increase in pressure can be measured in by the device. The TMM automatically calculates the opening latency index for each pressure level. The calculated latency (R-value) between pressure application and pressure change in the auditory canal provides information about the function of the Eustachian tube.

## Application

1. Introduction of an ear plug into the external auditory canal and air-tight positioning
2. Patient drinks water
3. Application of the nasal adapter (air-tight)
4. Swallowing process takes place



## Software

- Build up of excess pressure (30, 40, 50 mbar) in nose and nasopharynx during swallowing
- Recording of the kinetic excess pressure in the nasopharynx
- Recording the eardrum (volume) movements
- Measurement of latency (R-value) = Determination of time up to tube opening
- Representation of several curves in one image for better comparability
- Zoom function and full image mode allow precision analysis of the curves
- Printout for medical documentation
- Results saved as a PDF file
- Download of software on any laptop desired (minimum Office 7)



### Tubomanometer

#### Delivery contents:

- Tubomanometer universal version, incl. software for Windows 7/8/10, with standard set of accessories
- 1 x TMOR (silicone tube with clip, ear plugs (4 x C34 / 2 x C35) incl. adapter)
- 2 x C28F-0T0 (nasal plugs for TMM-02, small)
- 4 x C28E-0T0 (nasal plugs for TMM-02, medium)
- 4 x C28G-0T0 (nasal plugs for TMM-02, big)
- 1 x C20P (PVC-tubing without adapter for nasal plugs)
- 1 x C89 (adapter without PVC-tubing for nasal plugs)
- 1x cable for printer - notebook - TMM



#### TMM-02

##### Silicone tube for TMM-02



TMOR

with clip, ear plugs  
(4 x C34 / 2 x C35)  
incl. adapter

##### Nasal plugs for TMM-02



C28F-0T0 C28E-0T0 C28G-0T0

C28F-0T0 small  
C28E-0T0 medium  
C28G-0T0 big

##### Ear plugs for TMM-02



C34 C35

C34 big  
C35 small

##### Ear plugs for impedance measurements

- For tubomanometry and tympanometry

OS01	1	6 mm Ø	purple	10 pieces/box
OS02	2	7 mm Ø	yellow	10 pieces/box
OS03	3	9 mm Ø	green	10 pieces/box
OS04	4	10 mm Ø	blue	10 pieces/box
OS05	5	11 mm Ø	white	10 pieces/box
OS06	6	13 mm Ø	yellow	10 pieces/box
OS07	7	15 mm Ø	green	10 pieces/box
OS08	8	18 mm Ø	blue	10 pieces/box



Picture 1:2

##### Video- and unit-cart

- Equipment trolley for tubomanometer und accessories
- 4 layers, 1 drawer, handle
- 4 wheels -100 mm diameter
- height: 1146 mm / width: 618 mm / depth: 624 mm

80-698-00 without isolating transformer  
80-699-00 with isolating transformer





## 01 Otology

- TubaVent®
- Tubomanometry (TMM)
- **TubaInsert® / TubaVent® short**
- TubaClean®
- Ventilation Tubes
- Middle Ear Implants / Middle Ear Instruments / Stapes Protheses
- Silicone Sheeting
- Disposable Suction Tubes
- Miscellaneous Products (PVA-Tampons, Gelatin Sponges, etc.)



## TubalInsert® - Insertion instrument for a comfortable handling

The well-known reliability of the sterilisable combined insertion instrument applies to the single use insertion instrument as well. The single use insertion instrument was developed based on experience and in close cooperation with its users.



*"The new TubalInsert® provides the benefits of a disposable instrument combined with the functionality of a sucker and an insertion aid. The smaller disposable insertion instrument offers improved functionality and better handling particularly in children, and allows a more direct contact with the patient."*

Prof. Dr. med. habil. Matthias Tisch  
Colonel, Medical Corps  
Honorary Doctorate in Medicine  
Jordan University of Science and Technology (JUST)

### Single use insertion instrument

- Improved handling due to a shorter insertion distance in case of narrow anatomic conditions, for example in children
- Three different geometries matching any anatomy are offered
- Optimal ergonomics and a serrated surface allow comfortable and safe handling
- **ONLY** compatible in length with *TubaVent® short*
- The single use insertion instrument prevents lengthy treatment processes after use
- Especially well suited for first-time users



45°, sterile, 10 pieces/box  
2080-2045



60°, type Ulm, sterile, 10 pieces/box  
2080-2010



70°, sterile, 10 pieces/box  
2080-2070



**NOT to be used with our regular *TubaVent®* balloon catheter!**

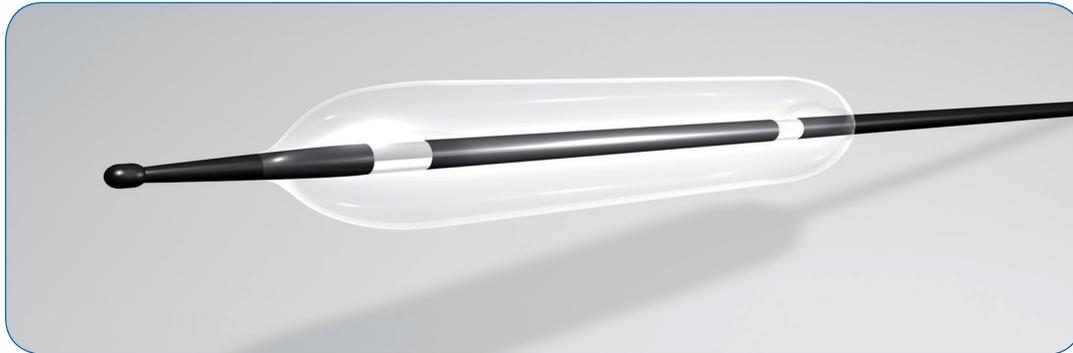




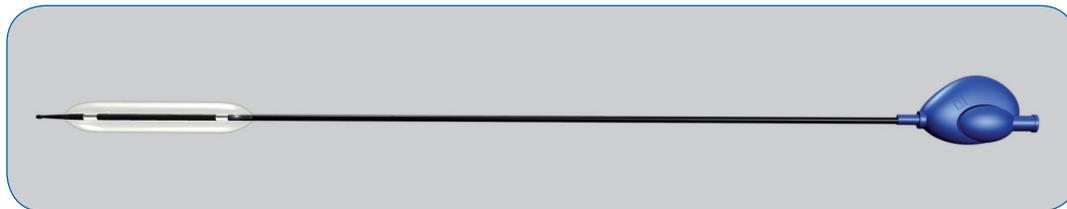
## TubaVent® short

### Balloon catheter with olive

The catheter was optimally adapted to the *Tubalinsert*® single use insertion instrument and equipped with an especially rounded tip.



- The catheter dimensions were perfectly adapted to the length of the single use insertion instrument, which defines the process and prevents the catheter from being pushed too far into the Tuba Eustachii
- An olive-shaped tip ensures enhanced protection of the mucosa, especially in children



- Balloon catheter for Tuba Eustachii, WL 236 mm, balloon 3 x 20 mm, sterile

2080-1236320

### Inflation device

- Inflation pump with extension tube for inflating balloon catheters
- Single use
- 20 ml syringe with detachable plunger using command switch, twist grip, pressure gauge and high-pressure connection using Luer-Lock rotary adapter
- Division from 0 to 30 atm, PSI scale
- Includes 100 cm - extension tube

2080-9030020





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SPIGGLE & THEIS Medizintechnik GmbH

# 01 Otology

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## 01 Otology

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## TubaClean® – The probing and flushing catheter for the Eustachian tube

Chronic ventilation problems may result in retraction, cholesteatoma, or not-healing eardrum defects. Particularly in children, tympanic effusion, often with a mucous discharge (so-called "glue ear"), may also occur. As many users of balloon dilation have described, such viscous secretion is frequently found within the Tuba Eustachii as well. In analogy, this is referred to using the term "glue tube".

The TubaClean® catheter was developed in order to be able to probe and flush the tube also in the course of middle ear surgery.

The catheter can be used during various surgical interventions at the middle ear (tympanoplasty I to III or tympanoscopy) to probe the Eustachian tube for blockages or to flush it with a sterile liquid (e.g. sterile isotonic saline solution NaCl 0.9%).



*"This catheter gives us surgeons an option for probing and flushing the Tuba Eustachii in an atraumatic way from the middle ear during surgery."*

Prof. Dr. med. Götz Lehnerdt,  
Head Physician of the ENT Clinic,  
St. Anna Clinic Wuppertal

### Basic information on application

The history of ventilation disorders of the Tuba Eustachii reaches back as far as otology itself. Numerous factors can cause blockage to any degree of the tubes. Even the pioneers in otology like Joseph Toynbee (1815–1866) examined the possibilities of probing the Tuba Eustachii in order to restore its proper function. For this purpose, a number of different techniques have been developed in the course of the decades that followed.

### Indications

- Tuba Eustachii dysfunction
- Mucous otitis media
- Chronic mesotympanic otitis media with possible eardrum defects
- Chronic epitympanic otitis media (possibly in connection with cholesteatoma development)
- Detritus in the Eustachian tube e.g. after middle ear surgery



## TubaClean® Benefits

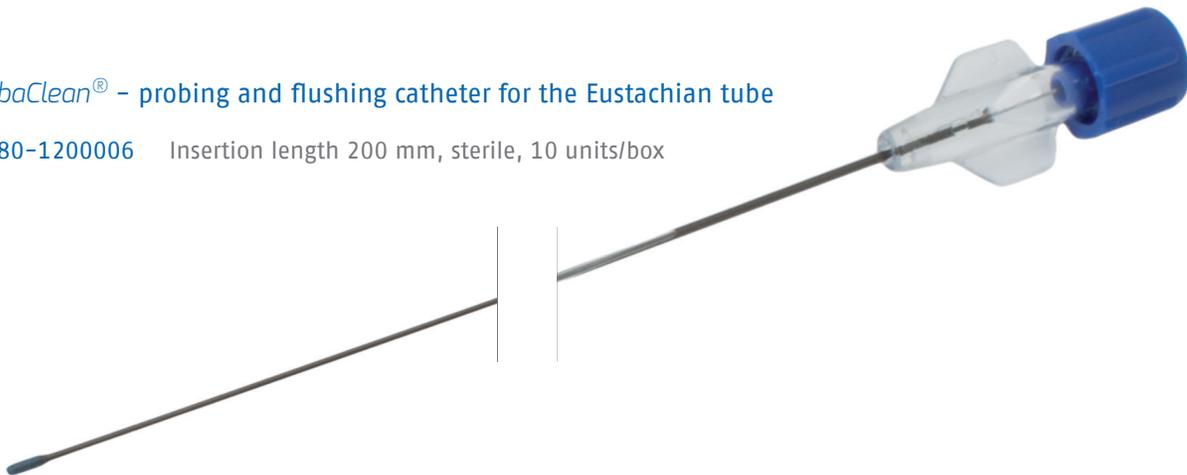
- Checking the Tuba Eustachii for blockage from the situs of the ear
- Removal of mucus from the tympanic membrane and the middle ear
- Improved ventilation enables quicker recovery
- Cleaning after drilling work at the middle ear

## TubaClean® Properties

- Atraumatic due to its shape: a rounded, olive-shaped tip prevents puncturing of the mucosa
- High stiffness when inserting the catheter due to an internal mandrel
- After removing the mandrel, there is high flexibility so that the catheter can be optimally pushed through the curves and isthmus of the Tuba Eustachii
- A Luer-Lock adapter allows easy and safe administration of liquids

## TubaClean® - probing and flushing catheter for the Eustachian tube

2080-1200006 Insertion length 200 mm, sterile, 10 units/box



## Catheter application

- Enhanced insight into the middle ear with surgical measures in the course of tympanoplasty I to III or tympanoscopy
- Localising the tympanal tubal ostium
- The catheter is pushed forward into the lumen of the Tuba Eustachii
- After pushing forward for about 15 mm, the mandrel is removed to allow easier progress beyond the tubal isthmus
- The catheter is slowly retracted while at the same time flushing the tube or administering cortisone



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SPIGGLE & THEIS Medizintechnik GmbH

# 01 Otology

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## 01 Otology

- TubaVent<sup>®</sup>
- Tubomanometry (TMM)
- TubaInsert<sup>®</sup> / TubaVent<sup>®</sup> short
- TubaClean<sup>®</sup>

### ■ Ventilation Tubes

- Middle Ear Implants / Middle Ear Instruments / Stapes Protheses
- Silicone Sheeting
- Disposable Suction Tubes
- Ear Tampons



## Ventilation tubes

Ventilation tubes are operated into the ear drum. Ventilation disorders in the middle ear should thus be regulated and the draining of any secretion present from the tympanic cavity made possible. The most important distinguishing feature of the types available is the duration that the tubes can be used for.

There are three categories to differentiate between.

1. Short-term tubes (e.g. Shepard)
2. Medium-term tubes (e.g. collar button)
3. Long-term tubes (e.g. T-tube)

Today, there is a very wide range of models in various materials. It is not easy for the user to make his choice, particularly as many sorts are very similar. Personal experience and preferences play an important role in the choice making process.

In the following pages we will introduce you, with a short description, to the most frequently used types.

### Properties, characterization, duration

- Biocompatibility and stability
- Proven types of ventilation tubes
- Good drainage results
- Single sterile packaging
- Wide choice
- Produced in compliance with highest quality standards
  
- Duration "short" (e.g. Shepard): ca. 1–6 months
- Duration "medium" (e.g. collar button): ca. 6–12 months
- Duration "long" (e.g. T-tube): ca. 12 months or longer; must be removed by a physician

### Titanium

- Lumen and flanges are micropolished to prevent adhesions of secretion and middle ear
- Biocompatibility and stability
- Especially light

### Fluoroplastic

- Special material properties prevent too fast closure of the tube
- Biocompatibility

### Silicone

- Soft material, which can be easily finished if necessary
- Biocompatibility

**If you cannot find your model of preference, or if you have any questions, we will be happy to provide further assistance!**



## Self cutting ventilation tube, titanium, sterile, 10 pieces/box

With cutting edge for direct paracentesis

- Time-saving, separate myringotomy blade is no longer needed
- "Myringotomy blade" is always sharp
- Easy positioning
- Excellent drainage and ventilation results
- Familiar collar button design
- Sits firmly
- Single, sterile packaging



	Inner $\varnothing$	Feature
10125C	0.76 mm	cutting edge

## Collar button ventilation tube, titanium, sterile, 10 pieces/box

- Classic design
- Four different inner diameters
- Produced according to the highest quality standards
- Excellent biocompatibility and biostability
- Light
- Typical medium-term ventilation tube
- Single, sterile packaging



	Inner $\varnothing$	Feature
10076	0.76 mm	
10100	1.00 mm	
10100F	1.00 mm	with wire
10125	1.25 mm	
10125F	1.25 mm	with wire
10150	1.50 mm	
10150F	1.50 mm	with wire

## Shepard ventilation tube, titanium, sterile, 10 pieces/box

- Classic design
- Two different inner diameters
- Produced according to the highest quality standards
- Excellent biocompatibility and biostability
- Light
- Typical short-term ventilation tube
- Single, sterile packaging



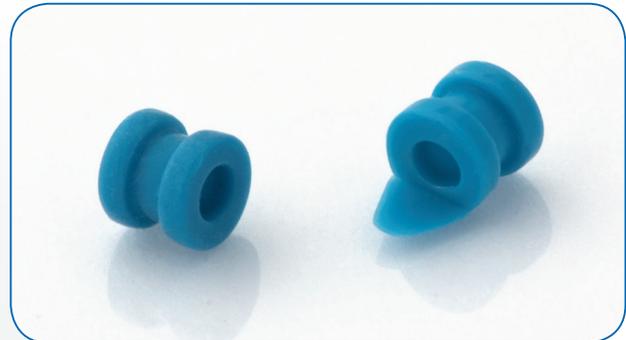
	Inner $\varnothing$	Feature
101100	1.00 mm	
101100F	1.00 mm	with wire
101125	1.25 mm	
101125F	1.25 mm	with wire



Donaldson ventilation tube, silicone, sterile, 10 pieces/box

- Short-term and medium-term ventilation tube
- Flange design prevents migration and extrusion
- Also available with tab for easier insertion and removal
- Single, sterile packaging

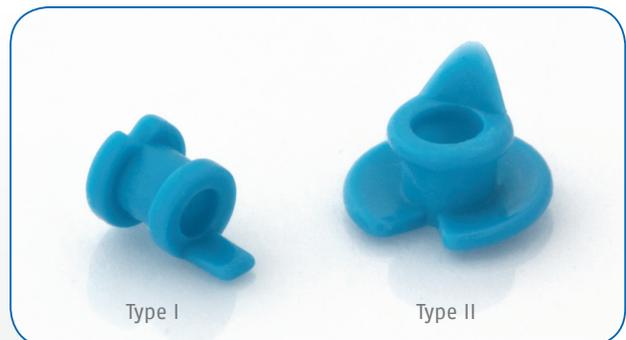
	Inner $\varnothing$	Feature
103000	1.10 mm	
103010	1.10 mm	with wire



Paparella I+II ventilation tube, silicone, sterile, 10 pieces/box

- Medium-term ventilation tube
- Notched inner flange is designed for easier insertion in a smaller incision
- Two different sizes available
- With tab for easier insertion and removal
- Single, sterile packaging

	Inner $\varnothing$	Feature
103300	1.10 mm	type I
103310	1.50 mm	type II



Armstrong ventilation tube, silicone, sterile, 10 pieces/box

- Medium-term ventilation tube
- Bevelled inner flange corresponds to the angle of the tympanic membrane
- Easy insertion
- Single, sterile packaging

	Inner $\varnothing$
103400	1.10 mm

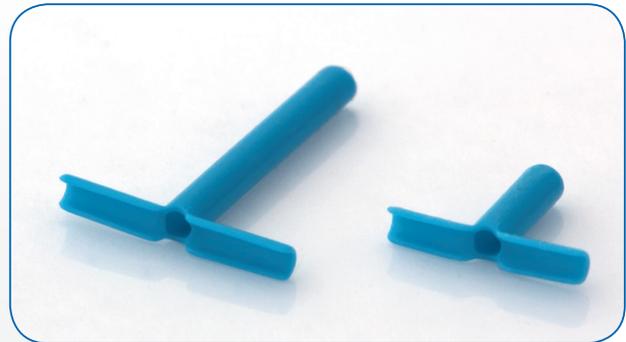




## T-tube ventilation tube, silicone, sterile, 10 pieces/box

- Long-term ventilation tube
- Shafts and flanges can be partly shortened
- Proven and popular design
- Soft flanges open out after insertion into ear drum
- Opened flanges prevent premature loss
- Single, sterile packaging

	Inner $\varnothing$	Length	Width
103100	1.14 mm	12 mm	9.8 mm
103150	1.14 mm	5 mm	7.9 mm



## Grommet T-tube ventilation tube, silicone, sterile, 10 pieces/box

- Long-term ventilation tube
- With integral tab for ease of insertion and removal
- Soft flanges open out after insertion into ear drum
- Single, sterile packaging

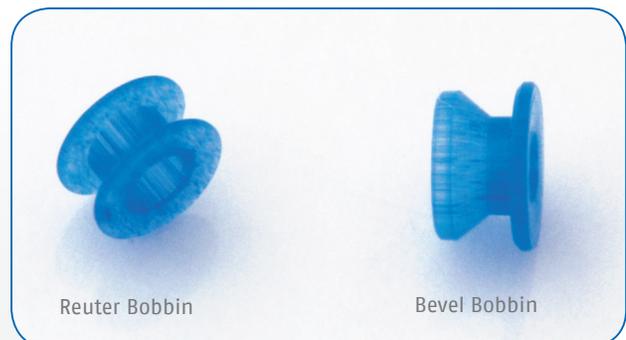
	Inner $\varnothing$	Feature	Length	Width
103200	1.30 mm	with wire	3.30 mm	6.35 mm



## Reuter Bobbin and Bevel Bobbin, ventilation tube, fluoroplastic, sterile, 10 pieces/box

- Medium-term ventilation tube
- Single, sterile packaging

	Inner $\varnothing$	Name
104414	1.14 mm	Reuter
104311	1.14 mm	Bevel

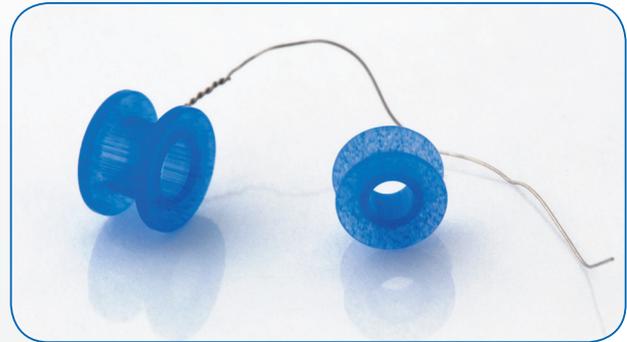




Collar button ventilation tube, fluoroplastic, sterile, 10 pieces/box

- Medium-term ventilation tube
- Proven and popular design
- Three different inner diameters
- Also available with wire
- Single, sterile packaging

	Inner $\varnothing$	Feature
104100	1.00 mm	
104100F	1.00 mm	with wire
104125	1.25 mm	
104125F	1.25 mm	with wire
104150	1.50 mm	
104150F	1.50 mm	with wire



Shepard ventilation tube, fluoroplastic, sterile, 10 pieces/box

- Short-term ventilation tube
- Proven and popular design
- Also available with wire
- Single, sterile packaging

	Inner $\varnothing$	Feature
104115	1.15 mm	
104115F	1.15 mm	with wire



Shah ventilation tube, fluoroplastic, sterile, 10 pieces/box

- Medium-term ventilation tube
- Wedge shaped inner flange for easier insertion
- Also available with tab
- Single, sterile packaging

	Inner $\varnothing$	Feature
104200	1.14 mm	with tab
104210	1.14 mm	





## Universal ventilation tube inserter, 1 piece

- With irrigation channel

10-758-00



## Hartmann ear forceps, 1 piece

- Serrated and fine
- Self-closing
- Straight
- 0.8 x 4.0 mm, 8 cm

10-701-00



## Ventilation tube inserter with mandrels, 1 piece

- Inserter for plastic ventilation tubes
- One each mandrel for ventilation tubes with 1.00 mm and 1.2 mm diameter

10-759-00



## T-tube inserter for T-tubes, 1 piece

- For T-tubes 5 mm and 12 mm



10-760-00 Dismountable  
1316012 Non-dismountable





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SPIGGLE & THEIS Medizintechnik GmbH

# 01 Otology

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## 01 Otology

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- Tubomanometry (TMM)
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- TubaClean<sup>®</sup>
- Ventilation Tubes
- **Middle Ear Implants / Middle Ear Instruments / Stapes Protheses**
- Silicone Sheeting
- Disposable Suction Tubes
- Ear Tampons

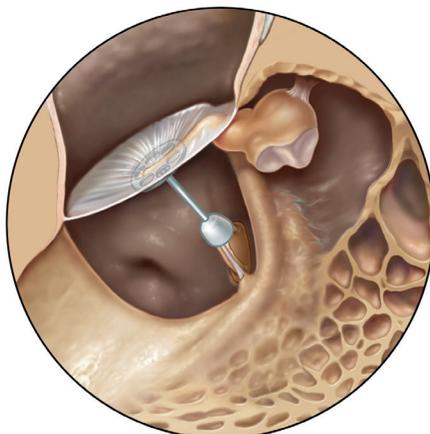


## Middle Ear Implants

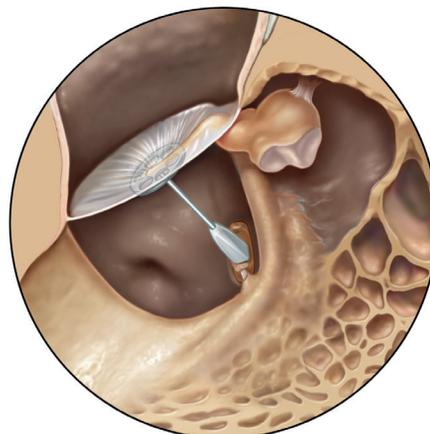
In otoplasty, middle ear implants serve as replacements for damaged or redundant ossicles. Thanks to them, the defect mechanical chain of sound transmission between the tympanum and the stapes footplate can be restored.

There are two basic types of middle ear implants:

1. Total implants, or TORP ( Total Ossicular Replacement Prosthesis) – total ossicular replacement; functional stapes footplate
2. Partial implants, or PORP ( Partial Ossicular Replacement Prosthesis) – partial ossicular replacement; stapes still present, stapes footplate functional



PORP



TORP



PD Dr. med. Carsten V. Dalchow  
Head of the Department of  
Otolaryngology, Head and Neck  
Surgery, Plastic Surgery and  
Allergology  
Hospital Frankfurt Höchst

“The reconstruction of the sound-conducting chain is one of the major tasks of modern middle ear surgery.

According to Wullstein (1968), tympanoplasty requires a constant assessment of the present situation, each of which requires a special solution. One of the great challenges is reconstructing a broken or fixed ossicular chain to restore optimal hearing. Since the dawn of middle ear surgery, a variety of materials have been used. An ever-advancing development in materials technology has led to the use of titanium since 1994. Titanium is distinguished from all other materials used so far by its high biocompatibility and stability with high rigidity and low weight. By a simple individual adjustment in length and angle partial and total prosthesis can be ideally adapted to any anatomical situation.

This middle ear implant system made of pure titanium has been able to provide the young as well as experienced otologist with a tool to safely replace destroyed ossicles and to reproduce the patient's lost hearing.”



## Total implant, fixed length, titanium, shaft $\varnothing$ 0.3 mm, sterile, 1 piece

- Single implant
- Manufactured from one single piece
- Excellent stability and handling
- Large choice of lengths
- Adjustable head angle (exception: 3 mm length)

	Length
11930	3.00 mm
11935	3.50 mm
11940	4.00 mm
11942	4.25 mm
11945	4.50 mm
11947	4.75 mm
11950	5.00 mm
11955	5.50 mm
11960	6.00 mm
11965	6.50 mm
11970	7.00 mm



Central head

	Length
11830	3.00 mm
11835	3.50 mm
11840	4.00 mm
11842	4.25 mm
11845	4.50 mm
11847	4.75 mm
11850	5.00 mm
11855	5.50 mm
11860	6.00 mm
11865	6.50 mm
11870	7.00 mm

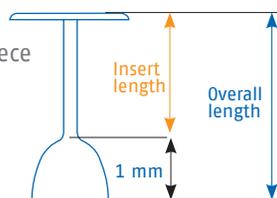


Offset head

## Partial implant, fixed length, titanium, shaft $\varnothing$ 0.3 mm, sterile, 1 piece

Partial implant designs with slitted bells provide the option of placing the implant on the complete bow of the stapes sides when the stapes head is no longer there. This secure placement reduces the risk of implant dislocation. The implant head can be either centrally (round head) or eccentrically (oval head) attached to the implant shaft. The oval headed version has an additional groove for an improved fitting of the malleus. A clearer view for positioning the bell end is possible due to openings found in both versions. All the designs grant the highest level of user-friendliness. This results in easier handling. Manufactured from high medical grade titanium – ensuring optimal biocompatibility and inertia.

- Single implant
- Manufactured from one single piece
- Excellent stability and handling
- Large choice of lengths
- Complete or slitted bell
- Optimal positioning



	Insert length
12805	0.50 mm
12810	1.00 mm
12812	1.25 mm
12815	1.50 mm
12817	1.75 mm
12820	2.00 mm
12822	2.25 mm
12825	2.50 mm
12830	3.00 mm
12835	3.50 mm



Offset head with slitted bell

	Insert length
12705	0.50 mm
12710	1.00 mm
12712	1.25 mm
12715	1.50 mm
12717	1.75 mm
12720	2.00 mm
12722	2.25 mm
12725	2.50 mm
12730	3.00 mm
12735	3.50 mm



Central head with slitted bell

	Insert length
12905	0.50 mm
12910	1.00 mm
12912	1.25 mm
12915	1.50 mm
12917	1.75 mm
12920	2.00 mm
12922	2.25 mm
12925	2.50 mm
12930	3.00 mm
12935	3.50 mm



Central head with complete bell

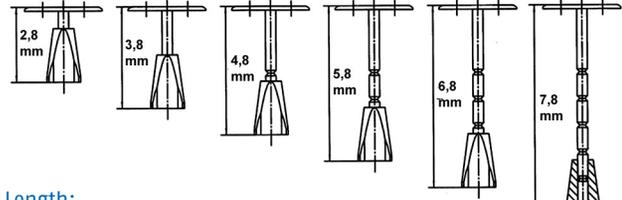


Total implant, variable length, titanium, shaft  $\varnothing$  0.4 mm, sterile, 1 piece

- Two parts, consisting of shaft with head and separate shoe
- Shaft can be shortened to required length in 1 mm intervals
- No sharp ends
- Excellent stability and handling



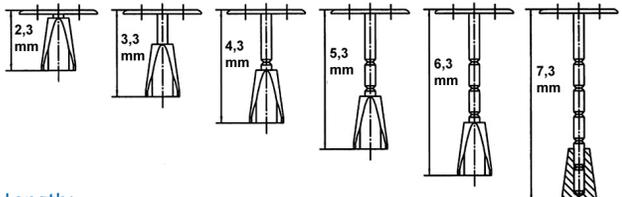
Shortening Diagram 11100



Length:

2.8 mm 3.8 mm 4.8 mm 5.8 mm 6.8 mm 7.8 mm

Shortening Diagram 11200



Length:

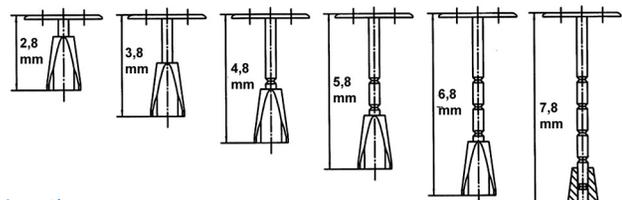
2.3 mm 3.3 mm 4.3 mm 5.3 mm 6.3 mm 7.3 mm

Total implant, adjustable, variable length, titanium, shaft  $\varnothing$  0.4 mm, sterile, 1 piece

- Angle of implant head can be optimally adjusted to fit patient's anatomy
- Two parts, consisting of shaft with head and separate shoe
- Shaft can be shortened to required length in 1 mm intervals
- No sharp ends
- Excellent stability and handling



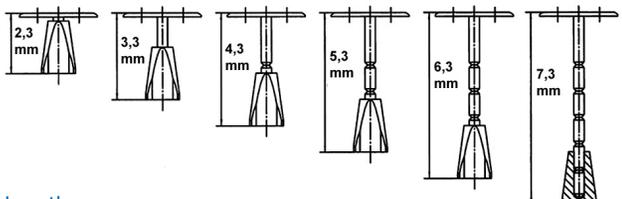
Shortening Diagram 11500



Length:

2.8 mm 3.8 mm 4.8 mm 5.8 mm 6.8 mm 7.8 mm

Shortening Diagram 11600



Length:

2.3 mm 3.3 mm 4.3 mm 5.3 mm 6.3 mm 7.3 mm

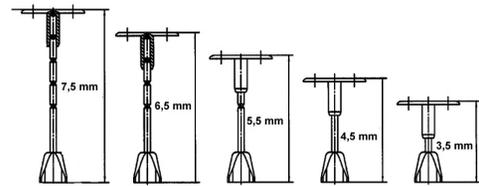


## Total implant, variable length, titanium, shaft $\varnothing$ 0.3 mm, sterile, 1 piece

- Two parts, consisting of shaft with shoe and separate head
- Shaft can be shortened to required length in 1 mm intervals
- No sharp ends
- Excellent stability and handling
- Reduction in weight due to 0.3 mm shaft diameter

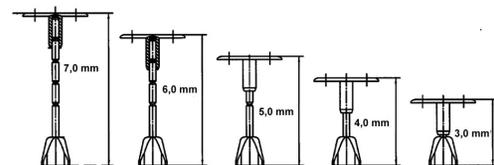


Shortening Diagram 11300



Length: 7.5 mm 6.5 mm 5.5 mm 4.5 mm 3.5 mm

Shortening Diagram 11400



Length: 7 mm 6 mm 5 mm 4 mm 3 mm

## Partial implant, variable length, titanium, shaft $\varnothing$ 0.3 mm, sterile, 1 piece

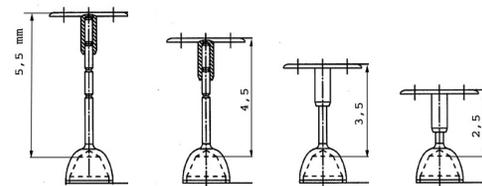
- Two parts, consisting of shaft with bell and separate head
- Shaft can be shortened to required length in 1 mm intervals
- No sharp ends
- Excellent stability and handling
- Reduction in weight due to 0.3 mm shaft diameter



**ATTENTION:**

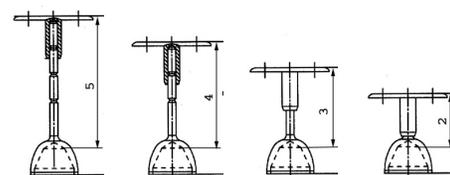
Insert Length = Overall Length – 1 mm

Shortening Diagram 12100



Insert Length: 5.5 mm 4.5 mm 3.5 mm 2.5 mm

Shortening Diagram 12200



Insert Length: 5 mm 4 mm 3 mm 2 mm



### Dummy sizers for titanium middle ear implants

- Dummy to determine the required implant length
- Stable
- Similar in form to original implant
- Length lasered on implant head
- Partial length is the insert length not the overall length
- Single or sets available
- Non-sterile
- Multi use: can be sterilized
- Special container for sterilizing is available



#### Attention:

The dummies are comparatively wide and do not have a sufficiently smooth surface to be used as implants. Such use is strictly prohibited!

#### Dummy sizers for total implants

	Length
11000-D20	2.00 mm
11000-D25	2.50 mm
11000-D30	3.00 mm
11000-D35	3.50 mm
11000-D40	4.00 mm
11000-D45	4.50 mm
11000-D50	5.00 mm
11000-D55	5.50 mm
11000-D60	6.00 mm
11000-D65	6.50 mm
11000-D70	7.00 mm
11000-D75	7.50 mm

#### Dummy sizers for partial implants

	Length
12000-D05	0.50 mm
12000-D10	1.00 mm
12000-D15	1.50 mm
12000-D17	1.75 mm
12000-D20	2.00 mm
12000-D25	2.50 mm
12000-D30	3.00 mm
12000-D35	3.50 mm
12000-D40	4.00 mm
12000-D45	4.50 mm
12000-D50	5.00 mm
12000-D55	5.50 mm

### Sterilisation container, 1 piece

	Description
Dummy-Box	Sterilisation container for dummy sizers
Dummy-Set	Sterilisation container with 12 total and 12 partial dummy sizers (1 piece per size)



Dummy box

Please see our otological instrument catalogue for a complete range of quality otological instruments.



## Shortening instruments for titanium middle ear implants

Basic block for shortening scales (total and partial implants)

PF001-10 1 piece



Shortening scale for use with the basic block for total implants 11100, 11200, 11500, 11600

PF001-11 1 piece

Shortening scale for use with the basic block for total implants 11300, 11400

PF001-13 1 piece

Shortening scale for use with the basic block for partial implants 12100, 12200

PF001-12 1 piece



## Shortening forceps

- With extra strong jaw
- 1.4 x 4.0 mm, 8 cm

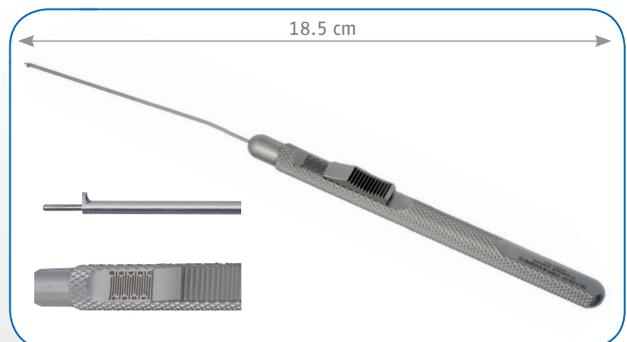
10-715-00 1 piece



## Reference Instrument

- For middle ear prostheses
- Slide button control from 0-8 mm
- 18.5 cm

10-652-00 Dismountable, 1 piece  
 10-651-00 Non-dismountable, 1 piece





## Instruments for otological microsurgery

### Hartmann ear forceps, 1 piece

- Serrated and fine
- Self-closing
- Straight
- 0.8 x 4.0 mm
- 8 cm

10-701-00



### Helms, dressing forceps, 1 piece

- Straight
- 2.8 mm
- 15 cm

10-489-15



### Hildmann, cartilage forceps, 1 piece

- Straight
- 11 cm

10-504-10



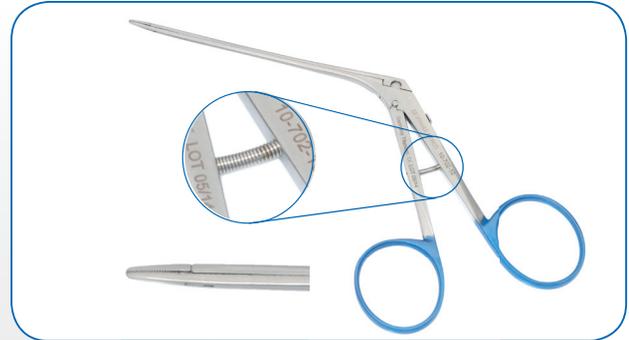
Please see our otological instrument catalogue for a complete range of quality otological instruments.



## Hartmann ear forceps, titanium, 1 piece

- Fine
- Self-closing
- Straight
- 1.0 x 6.0 mm
- 8 cm

10-702-10 serrated  
10-702-11 smooth



## Hartmann ear forceps, titanium, 1 piece

- Serrated and fine
- Straight
- 1.0 x 6.0 mm
- 8 cm

10-703-10



## Micro forceps, titanium, 1 piece

- Anatomical
- Blue
- 1 mm
- 15 cm

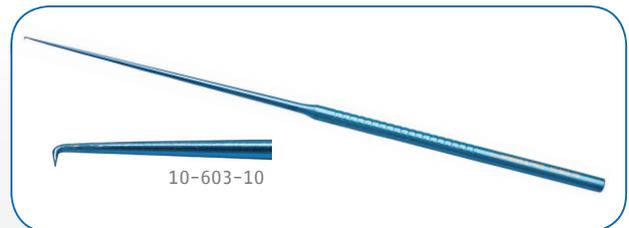
10-605-10



## Micro hook, titanium, 1 piece

- Sharp
- Blue
- 1 mm
- 16 cm

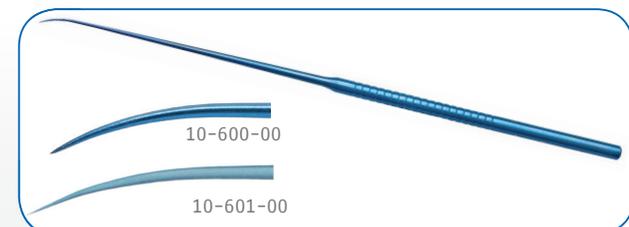
10-603-10 90°  
10-604-10 45°



## Micro needle, titanium, 1 piece

- Blue
- 16 cm

10-600-00 short curve, slightly curved  
10-601-00 long curve, very slightly curved





### New generation of self crimping Nitinol/PTFE prostheses

The hooks of stapes prostheses are usually made of titanium, platinum, PTFE or thermo-reactive nitinol. These types of prostheses need an additional closing step to fix the hook around the incus. This is either done by crimping or heating, dependent on the material. The new generation of stapes prostheses has a hook manufactured from *Superelastic Nitinol* what makes the procedure simpler and quicker due to the self crimping material which does not need an additional closing step and no applied heat.

Nitinol is an alloy of nickel (Ni) and titanium (Ti). There are two types of nitinol, **thermo-reactive nitinol** and **superelastic nitinol**. In contrast of the thermo-reactive nitinol, *superelastic nitinol* automatically returns to its original shape after positioning on the incus. The application of heat is not needed. The easy fit design of the stapes prostheses makes the handling simple. The insertion requires only minimum pressure, which avoids damage to the incus. The equal pressure distribution ensures an optimal fit.



### Incus fork for size determination

The average diameter of the incus is 0.7mm, but the exact diameter can vary from patient to patient. For this reason an incus fork with 0.7mm diameter was specially developed in collaboration with Prof. Serena Preyer, to ascertain the proper size of stapes prostheses. The size of the hook is determined by simply placing the incus fork over the incus.



Prof. Dr. med. Serena Preyer  
Head of ENT in Deaconess Hospital Karlsruhe, Germany

#### Size range of hook

- M (standard): inner diameter = 0.7mm
- S (small): inner diameter < 0.7mm
- L (large): inner diameter > 0.7mm



Preyer incus fork 10-670-00





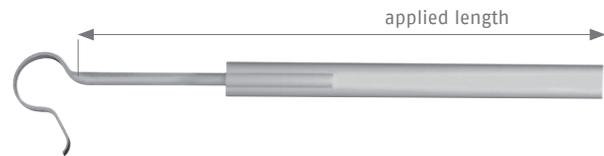
## Stapes Protheseses, Nitinol/PTFE, sterile, 1 piece

Flat band available in three sizes:

Inner  $\varnothing$  standard (medium): 0.7 mm with labelling "M"

Inner  $\varnothing$  small: < 0.7 mm with labelling "S"

Inner  $\varnothing$  large: > 0.7 mm with labelling "L"



Wire  $\varnothing$ : 0.2 mm  
PTFE shaft  $\varnothing$ : 0.4 mm

Incus  $\varnothing$  standard: 0.7 mm

	Applied length
10740425M	4.25 mm
10740450M	4.50 mm
10740475M	4.75 mm
shortenable:	
10740600M	6.00 mm

Incus  $\varnothing$  small: < 0.7 mm

	Applied length
10740425S	4.25 mm
10740450S	4.50 mm
10740475S	4.75 mm
shortenable:	
10740600S	6.00 mm

Incus  $\varnothing$  large: > 0.7 mm

	Applied length
10740425L	4.25 mm
10740450L	4.50 mm
10740475L	4.75 mm
shortenable:	
10740600L	6.00 mm

Wire  $\varnothing$ : 0.2 mm  
PTFE shaft  $\varnothing$ : 0.6 mm

Incus  $\varnothing$  standard: 0.7 mm

	Applied length
10760425M	4.25 mm
10760450M	4.50 mm
10760475M	4.75 mm
shortenable:	
10760600M	6.00 mm

Incus  $\varnothing$  small: < 0.7 mm

	Applied length
10760425S	4.25 mm
10760450S	4.50 mm
10760475S	4.75 mm
shortenable:	
10760600S	6.00 mm

Incus  $\varnothing$  large: > 0.7 mm

	Applied length
10760425L	4.25 mm
10760450L	4.50 mm
10760475L	4.75 mm
shortenable:	
10760600L	6.00 mm

You will find further information and an instruction video on our website  
[www.spiggle-theis.com](http://www.spiggle-theis.com)



Stapes Protheses, Platinum/PTFE, sterile, 1 piece

Special quality characteristics:

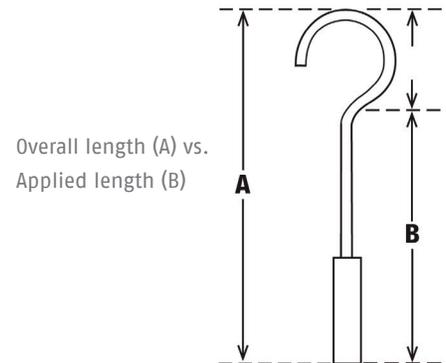
The flat band of this prosthesis has four transversal notches. Under soft pressure of a forceps the flat band closes equally and grabs perfectly without any reduction of blood flow.

PTFE shaft ø: 0.4 mm

	Applied length
10540425	4.25 mm
10540450	4.50 mm
10540475	4.75 mm
<b>shortenable:</b>	
10540600	6.00 mm
10540900	9.00 mm

PTFE shaft ø: 0.6 mm

	Applied length
10560425	4.25 mm
10560450	4.50 mm
10560475	4.75 mm
<b>shortenable:</b>	
10560600	6.00 mm
10560900	9.00 mm



Stapes Protheses, titanium, sterile, 1 piece

Special quality characteristics:

Under soft pressure of a forceps the flat band closes equally and grabs perfectly without any reduction of blood flow.

PTFE shaft ø: 0.4 mm

	Applied length
10640425	4.25 mm
10640450	4.50 mm
10640475	4.75 mm
<b>shortenable:</b>	
10640700	7.00 mm

PTFE shaft ø: 0.6 mm

	Applied length
10660425	4.25 mm
10660450	4.50 mm
10660475	4.75 mm
<b>shortenable:</b>	
10660600	6.00 mm





## 01 Otology

- TubaVent<sup>®</sup>
- Tubomanometry (TMM)
- TubaInsert<sup>®</sup> / TubaVent<sup>®</sup> short
- TubaClean<sup>®</sup>
- Ventilation Tubes
- Middle Ear Implants / Middle Ear Instruments / Stapes Protheses
- **Silicone Sheeting**
- Disposable Suction Tubes
- Ear Tampons



### Silicone Sheeting

Silicone sheeting has a wide range of application possibilities in ENT- surgery today. The material properties of silicone play an important role: it is smooth, has an anti-adhesive surface, is flexible and - depending on the thickness - still stable. It is possible to manufacture nearly every thickness. The sheeting can also be easily cut to the desired shape and size by the user.

The thinner sheets are preferred in otosurgery, whilst the thicker versions are often used in rhinological surgery, e.g. as septal splints.

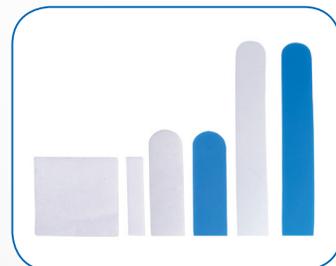
The period of time in which all the offered forms of silicone sheeting can remain undisturbed in the body must not exceed 30 days!

All our silicone sheetings are free from latex!

### Silicone Sheeting, Miltheis, sterile: the ready-to-use solution for splinting the eardrum

- High quality medical grade silicone
- Popular thickness of 0.13 mm
- Precut and sterilized
- 3 sterile sheets in one pouch
- Transparent or blue
- Packaging of 10 x 3 pieces = 30 pieces/box

	Dimensions	Color
1710000	6 x 20 mm	transparent
1710000-B	6 x 20 mm	blue
1710001	6 x 40 mm	transparent
1710001-B	6 x 40 mm	blue
1720000	15 x 15 mm	transparent
1720001	3 x 15 mm	transparent

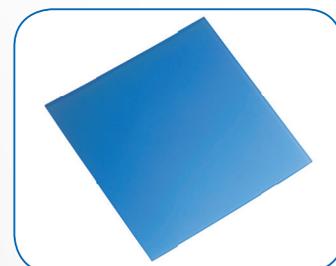
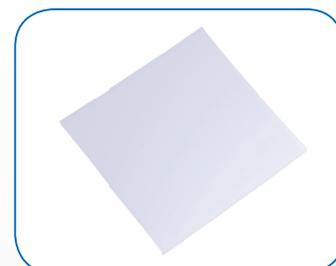


**Attention:**  
To preserve the good material properties of the silicone for as long as possible, only sterilize the quantity you require!

### Silicone Sheeting, non-sterile

- High quality medical grade silicone
- Can be easily cut to size

	Dimensions	Feature	Color	Thickness	Packaging
1760100	300 x 300 mm	shore 60	transp.	1.00 mm	1 piece
1760100-B	300 x 300 mm	shore 60	blue	1.00 mm	1 piece
1780100-B	300 x 300 mm	shore 80	blue	1.00 mm	1 piece
2030005	300 x 300 mm	shore 40	transp.	0.13 mm	1 piece
2030040	300 x 300 mm	shore 40	transp.	1.00 mm	1 piece
1720040-B	3.5 x 25 mm		blue	0.13 mm	34 pieces
1762100-BSU	75 x 55 mm	shore 60	blue	1.00 mm	25 pieces
1762100-BSU-100	75 x 55 mm	shore 60	blue	1.00 mm	100 pieces
1762100-SU	75 x 55 mm	shore 60	transp.	1.00 mm	25 pieces





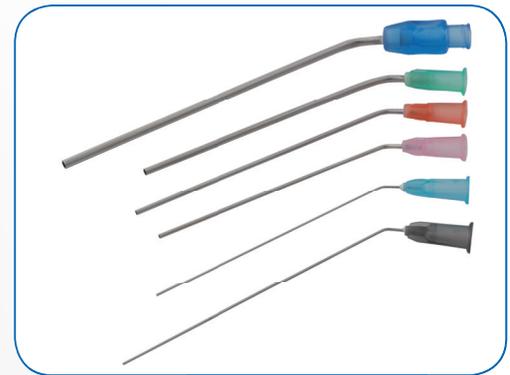
## 01 Otology

- TubaVent<sup>®</sup>
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- Silicone Sheeting
- **Disposable Suction Tubes**
- Ear Tampons



Suction tubes for otology, single use, sterile

- Angled stainless steel cannulae
- Plastic Luer-Lock connectors
- Atraumatic tip
- Wide range of lengths and diameters
- Packaging of 50 pieces per box



	Length	Diameter	Color
302004	70 mm	0.4 mm	grey
302006	70 mm	0.6 mm	blue
302007	70 mm	0.7 mm	black
302008	70 mm	0.8 mm	green
302010	70 mm	1.0 mm	white
302012	70 mm	1.2 mm	pink
302014	70 mm	1.4 mm	red
302016	70 mm	1.6 mm	white
302020	70 mm	2.0 mm	green
303004	80 mm	0.4 mm	grey
303007	80 mm	0.7 mm	black
303014	80 mm	1.4 mm	red
303020	80 mm	2.0 mm	green
303025	80 mm	2.5 mm	blue
303030	80 mm	3.0 mm	blue
303040	80 mm	4.0 mm	blue
304010	100 mm	1.0 mm	white
304014	100 mm	1.4 mm	red
304020	100 mm	2.0 mm	green
304025	100 mm	2.5 mm	blue
304030	100 mm	3.0 mm	blue



## 01 Otology

- TubaVent<sup>®</sup>
- Tubomanometry (TMM)
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- Ventilation Tubes
- Middle Ear Implants / Middle Ear Instruments / Stapes Protheses
- Silicone Sheeting
- Disposable Suction Tubes
- **Ear Tampons**



PVA tampons, sterile

- Expanding ear tampon for post-tympanoplastic tamponing of the external acoustic canal
- With or without central lumen

	Size	Feature	Packaging
66400	9 x 15 mm	with lumen	50 pieces/box
66410	12 x 24 mm	without lumen	20 pieces/box
66420	9 x 15 mm	without lumen	50 pieces/box



ATTENTION:

In order to prevent the tampon adhering to tissue after tympanoplasty, it is absolutely vital that strips of silicone sheeting (e.g. Art.No. 1710000 or 1710001) are applied to the eardrum and the walls of the external acoustic canal.

**Must be kept constantly moist for the entire duration of use. Not suitable for implantation!**

Absorbable gelatin sponge, sterile

Ear tampons made of purified porcine gelatin are commonly utilised in otoplasty. They function dry or moist, and have a wide range of applications. They can be used for local haemostasis, keeping fascia or perichondrium in place, or even as a carrier for the local application of antibiotics. The advantages of this material are the porous structure and light weight combined with good compatibility and complete absorption.

- 100% purified porcine gelatin
- Comparatively high density resulting in longer tamponing
- Insoluble in water and fully absorbable
- Total absorption time varies according to application (between 4 and 6 weeks)
- Practical size
- Single sterile blister packaging, i.e. can be used sparingly

	Size	Packaging
GS-325	10 x 10 x 10 mm	50 pieces/box
GS-015	80 x 50 x 10 mm	10 pieces/box





## 02 Rhinology

- **Nasal Packings / Tampons**
- Nasal Splints
- Silicone Sheeting
- Catheter
- Suction Tubes
- Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)



### Nasal tampons, PVA (Polyvinylalcohol)

#### Properties:

- Expands evenly after moistening with an appropriate liquid
- Lint and fibre free, no migration of PVA particles
- Soft pliable sponge when wet
- Takes on appropriate anatomical form
- Highly absorbent
- Safety thread
- Single, sterile packaging

#### Application note:

- Pay attention to the enclosed instructions!
- Can be easily trimmed in dry state
- Not to be used for implantation
- Only use water based liquids
- The tampons must be kept moist during the entire duration of use
- Thoroughly moisten before withdrawal

**Attention:**  
**Period of usage should not exceed 5 days!**

Spiggle & Theis offers the classical micro pore PVA packings with an impregnation of *Oxidized Cellulose*. Oxidized cellulose is a well-known hemostatic agent which enhances the reduction of bleeding for the patient. The article numbers of these impregnated PVA packings are ending with "X".

### Expanding nasal tampons, PVA, straight, sterile

- Post-operative tamponing after rhinological procedures
- Silicone airway (if required – for easier breathing and swallowing)
- With oxidized cellulose impregnated versions available – article number ends with "X"
- 15 cm safety thread
- Single, sterile packaging
- 20 pieces/box

	Description	Dimensions
66100	without airway	45 x 15 x 20 mm
66110	without airway	80 x 15 x 20 mm
66120	with airway	45 x 15 x 20 mm
66130	with airway	80 x 15 x 20 mm
66100X	without airway	45 x 15 x 20 mm
66110X	without airway	80 x 15 x 20 mm
66120X	with airway	45 x 15 x 20 mm
66130X	with airway	80 x 15 x 20 mm





## Expanding nasal tampons, PVA, anatomical, sterile

- Post-operative tamponing after rhinological procedures
- Silicone airway (if required – for easier breathing and swallowing)
- With oxidized cellulose impregnated versions available – article number ends with “X”
- 15 cm safety thread
- Single, sterile packaging
- 20 pieces/box

	Description	Dimensions
66140	with airway	75 x 15 x 30 mm
66150	without airway	75 x 15 x 30 mm
66160	without airway, slim	75 x 10 x 30 mm
66140X	with airway	75 x 15 x 30 mm
66150X	without airway	75 x 15 x 30 mm
66160X	without airway, slim	75 x 10 x 30 mm



## Expanding epistaxis nasal tampons, PVA, sterile

- Application as epistaxis tampon to arrest bleeding in medial or posterior nasal area, or post-operative usage
- Three sizes available
- Pediatric form suitable for small children
- With oxidized cellulose impregnated versions available – article number ends with “X”
- 15 cm safety thread
- Single, sterile packaging
- 20 pieces/box

	Description	Dimensions
66200	large, curved	100 x 15 x 25 mm
66210	medium, straight	55 x 15 x 25 mm
66220	pediatric, straight	35 x 15 x 25 mm
66200X	large, curved	100 x 15 x 25 mm
66210X	medium, straight	55 x 15 x 25 mm
66220X	pediatric, straight	35 x 15 x 25 mm



Tampon – pediatric



Tampon – medium

## Expanding sinus tampons, PVA, sterile

- Post-operative application after sinus surgical procedures
- With oxidized cellulose impregnated versions available – article number ends with “X”
- Special shape for tamponing of the ethmoid cavity
- 15 cm safety thread
- Sterile packed in pairs
- 20 pairs/box

	Description	Dimensions
66300	Sinus tampon	35 x 9 x 12 mm
66310	Sinus tampon, slim	35 x 6 x 12 mm
66300X	Sinus tampon	35 x 9 x 12 mm
66310X	Sinus tampon, slim	35 x 6 x 12 mm





Nasal packings, foam, latex-free, sterile

- Post-operative application for rhino-/ septoplasty
- Water repellent and non-adhesive
- X-ray contrast strip
- 25 cm safety thread
- Double sterile packed in pairs
- 25 pairs/box

Dimensions

35083	70 x 20 x 10 mm
35084	50 x 20 x 10 mm
35085	80 x 20 x 10 mm
35086	70 x 10 x 10 mm
35112	70 x 15 x 10 mm
35113	50 x 15 x 10 mm



Nasal packings, foam, with latex cover, sterile

- Post-operative application for rhino-/ septoplasty
- Non-adhesive
- Easy application
- X-ray contrast strip
- 30 cm safety thread
- Double sterile packed in pairs
- 25 pairs/box

Dimensions

35043	70 x 20 x 10 mm
35044	50 x 20 x 10 mm
35045	60 x 20 x 10 mm
35046	80 x 20 x 10 mm
35048	80 x 20 x 20 mm
35049	80 x 20 x 15 mm
35051	60 x 20 x 15 mm
35052	70 x 20 x 15 mm
35054	60 x 20 x 20 mm
35055	70 x 20 x 20 mm
35057	50 x 10 x 10 mm
35058	60 x 10 x 10 mm
35059	70 x 10 x 10 mm
35069	80 x 10 x 10 mm
35145	100 x 20 x 10 mm





## Nasopharyngeal tampons, sterile

### Bellocq type, modified version, 6 threads (55 cm), sterile

- X-ray contrast strip
- Single, sterile packaging

	Size	Dimensions	Packaging
35006	small	35 x 40 mm	10 pieces*/box
35007	medium	35 x 50 mm	10 pieces*/box
35008	large	35 x 60 mm	10 pieces*/box
35063	small	35 x 40 mm	5 sets**/box
35064	medium	35 x 50 mm	5 sets**/box
35065	large	35 x 60 mm	5 sets**/box



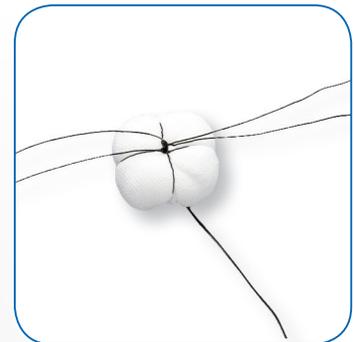
\* Each with 2 dental rolls

\*\* One set (double sterile packed) includes 1 tampon, 3 gauze compresses, 2 dental rolls, 2 suction catheters (CH12)

### Bellocq type, classic version, 5 threads (50 cm), sterile

- X-ray contrast strip
- Single, sterile packaging

	Size	Dimensions	Packaging
35009	small	30 x 30 mm	10 pieces*/box
35010	medium	40 x 40 mm	10 pieces*/box
35011	large	50 x 50 mm	10 pieces*/box
35060	small	30 x 30 mm	5 sets**/box
35061	medium	40 x 40 mm	5 sets**/box
35062	large	50 x 50 mm	5 sets**/box



\* Each with 2 dental rolls

\*\* One set (double sterile packed) includes 1 tampon, 3 gauze compresses, 2 dental rolls, 2 suction catheters (CH12)

### Prof. Brusis nasopharyngeal foam tampons, 4 threads (60 cm), sterile

	Size	Dimensions	Packaging
35080	small	70 x 30 x 30 mm	10 pieces*/box, double sterile packed
35022**	medium	80 x 35 x 35 mm	10 pieces/box, single sterile packed
35081	medium	80 x 35 x 35 mm	10 pieces*/box, double sterile packed
35082	large	90 x 45 x 45 mm	10 pieces*/box, double sterile packed



\* Each with 2 dental rolls

\*\* With x-ray contrast strip



X-BLOD®

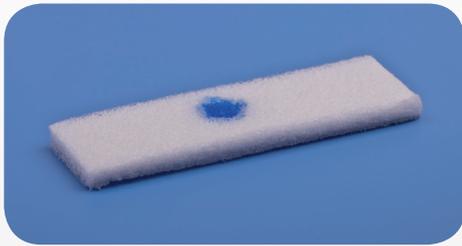
## 02 Rhinology

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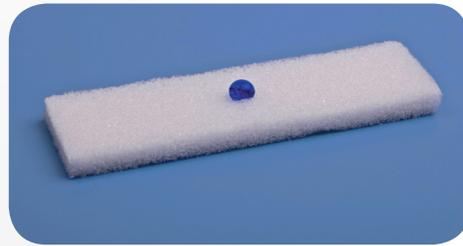
### GELITA-X-BLOD® SINUS – absorbable nasal tampon, sterile

The X-BLOD® tampon consists of 100% purified gelatin and is fully resorbable. Due to its special porous structure the product can absorb up to 40 times of its own weight. X-BLOD® is used in dry condition!

- Stops most bleeding extremely quick
- Resorbed within two to five days (does not have to be removed)
- Non-adhesive
- Rapid absorption of liquids (blood and secretions) within seconds
- Very user-friendly (time saving as no preconditioning required)
- Use in venous or other seeping wounds, which cannot be staunched by existing means
- Very high liquid absorption capacity ("keeps the surgical field dry")
- Carrier for e.g. antibiotic medication
- 100% bio-compatibility



GELITA-X-BLOD® SINUS tampon



Standard gelatin sponge

#### Applications:

- Epistaxis
- Sinus surgery
- Conchotomy
- Rhinoplasty in combination with a nasal pressure packing

	Dimensions	Packaging
65300	80 x 25 x 4 mm	10 pieces/box





## 02 Rhinology

- Nasal Packings / Tampons
- **Nasal Splints**
- Silicone Sheeting
- Catheter
- Suction Tubes
- Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)



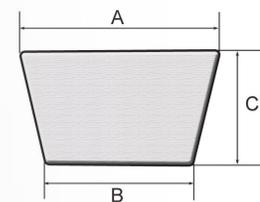
External nasal splints, thermoplastic, non-sterile

Here, thermoplastic is used to describe a substance that changes its consistency and stability under temperature influence. When heated in a water bath, the material changes its colour from white to transparent and becomes malleable under the influence of warmth. The process is reversed by cooling i.e. the product sets in the modelled shape. Using such material for an external nasal splint allows individual fitting according to the patients anatomy.

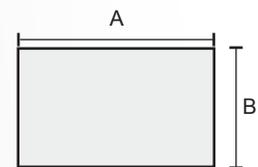
- Self-adhesive back (NOT 2051010 and 2050010)
- Less time and work required than with plaster of paris
- Includes three-part foam bridge
- Five sizes in two different thicknesses
- 10 pieces/box



	A	x	B	x	C	Thickness	Size
2050100	56	x	38	x	30 mm	2.4 mm	small
2050200	64	x	40	x	36 mm	2.4 mm	standard
2050300	66	x	42	x	45 mm	2.4 mm	large
2051100	56	x	38	x	30 mm	1.6 mm	small
2051200	64	x	40	x	36 mm	1.6 mm	standard
2051300	66	x	42	x	45 mm	1.6 mm	large



	A	x	B	Thickness	Feature
2050000	80	x	50 mm	2.4 mm	cut to size
2050010	100	x	75 mm	2.4 mm	cut to size
2051000	80	x	50 mm	1.6 mm	cut to size
2051010	100	x	75 mm	1.6 mm	cut to size



External nasal splints, aluminium, slit, non-sterile

- Slit
- Easily malleable
- Self-adhesive back
- Three sizes available
- 10 pieces/box

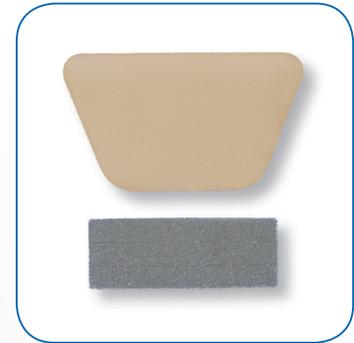
	Size
10R19.04SP	small
10R19.05MP	medium
10R19.06LP	large



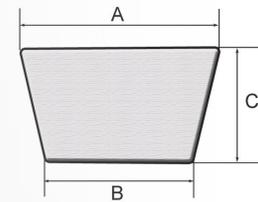


## External nasal splints, aluminium, non-sterile

- Padded aluminium nasal splint
- Easily malleable
- Self-adhesive back
- Four sizes available
- Self-adhesive dorsum foam pad included



	A	x	B	x	C	Size	Packaging
2060100	50	x	33	x	28 mm	mini	10 pieces/box
2060200	56	x	38	x	30 mm	small	10 pieces/box
2060200-25	56	x	38	x	30 mm	small	25 pieces/box
2060300	64	x	40	x	36 mm	standard	10 pieces/box
2060300-25	64	x	40	x	36 mm	standard	25 pieces/box
2060400	66	x	42	x	45 mm	large	10 pieces/box
2060400-25	66	x	42	x	45 mm	large	25 pieces/box

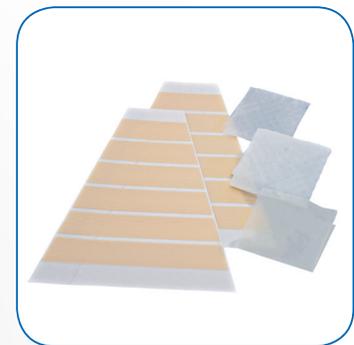


## External nasal splints, aluminium, set, non-sterile

Contents per box:

- 5 x nasal splints with self-adhesive back
- 5 x foam protective bases
- 5 x alcohol swabs (cleansing swabs)
- 5 x Skin Prep™ (skin protection swabs)
- 5 x nose strips (sterile nasal strips)
- 5 x Remove™ (adhesive removal swabs)

	A	x	B	x	C	Size	Packaging
2060300-K	64	x	40	x	36 mm	standard	5 sets/box
<b>Only on request / custom made:</b>							
2060100-K	50	x	33	x	28 mm	mini	5 sets/box
2060200-K	56	x	38	x	30 mm	small	5 sets/box
2060400-K	66	x	42	x	45 mm	large	5 sets/box





Internal nasal splint with airway, silicone, sterile

- Integral airway allows post-operative nasal breathing
- Silicone prevents adhesion
- Soft material for easy insertion and removal
- Punched suture holes
- Surface with Lotus leaf effect
- Packed in pairs

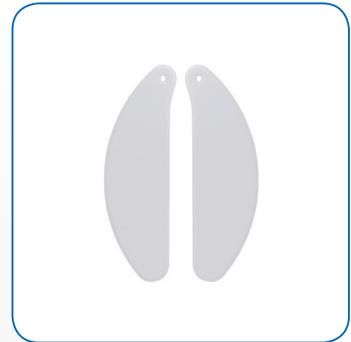
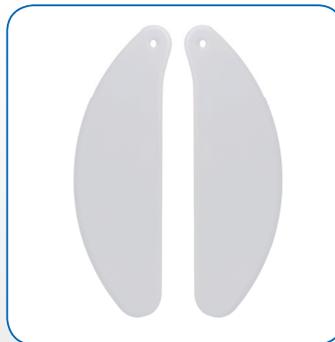
	Size	Thickness	Packaging
2030100	standard	1 mm	5 pairs/box
2030100-50	standard	1 mm	50 pairs/box



Internal nasal splint without airway, silicone, sterile

- Soft material for easy insertion and removal
- Silicone prevents adhesion
- Punched suture holes
- Surface with Lotus leaf effect
- Packed in pairs
- 5 pairs/box

	Size	Thickness
2030110	standard	1 mm
2030115	pediatric	1 mm



Septal button, silicone, sterile

- For non-surgical closure of septal perforation
- Silicone prevents adhesion
- Soft material for easy insertion and removal
- No scabbing, epistaxis or other septal perforation symptoms
- Surface with Lotus leaf effect

	Size	Thickness*	Feature	Packaging
2031100	3.2 cm	1 mm	one-piece	1 piece
2031110	3.2 cm	1mm	two-piece	1 piece

\*per disk





## Internal nasal splints, fluoroplastic, sterile

- Self-lubricating characteristics of fluoroplastic prevent crustination
- Falciform
- 5 pairs/box

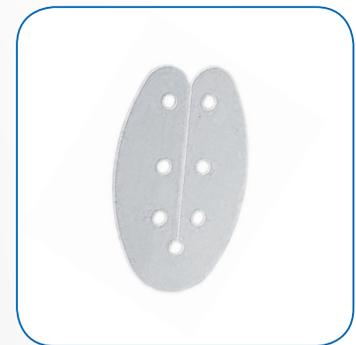
	Size	Thickness
2044050	standard	0.5 mm



## Internal nasal splints, fluoroplastic, sterile

- Bivalve splint, provides septal support
- Punched suture holes
- Fluoroplastic prevents adhesion
- Easy insertion and removal
- Available in two sizes and three thicknesses

	Size	Thickness	Packaging
2042025	large	0.25 mm	5 pairs/box
2042025-S	large	0.25 mm	10 pieces/box
2042050	large	0.50 mm	5 pairs/box
2042050-S	large	0.50 mm	10 pieces/box
2042075	large	0.75 mm	5 pairs/box
2042075-S	large	0.75 mm	10 pieces/box
2041025	standard	0.25 mm	5 pairs/box
2041025-S	standard	0.25 mm	10 pieces/box
2041050	standard	0.50 mm	5 pairs/box
2041050-S	standard	0.50 mm	10 pieces/box
2041075	standard	0.75 mm	5 pairs/box
2041075-S	standard	0.75 mm	10 pieces/box



## Internal nasal splints, fluoroplastic, "cut-to-size", sterile

- Cut-to-size
- Packed in pairs
- 5 pairs/box

	Size	Thickness
2043025	64 x 38 mm	0.25 mm
2043050	64 x 38 mm	0.50 mm





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## 02 Rhinology

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## 02 Rhinology

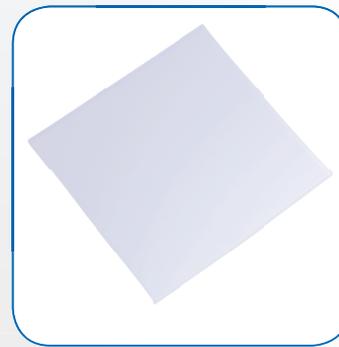
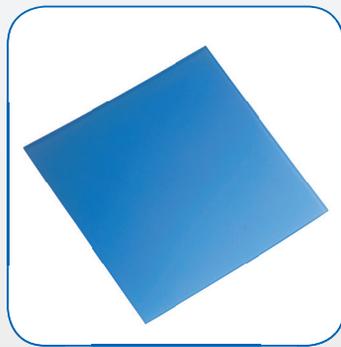
- Nasal Packings / Tampons
- Nasal Splints
- **Silicone Sheeting**
- Catheter
- Suction Tubes
- Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)



Silicone sheeting, "cut-to-size", non-sterile

- Cut-to-size
- Medical grade silicone

	Dimensions	Feature	Thickness	Color	Packaging
2030040	300 x 300 mm	shore 40	1.00 mm	transparent	1 piece
2030050	300 x 300 mm	shore 40	1.25 mm	transparent	1 piece
1760100	300 x 300 mm	shore 60	1.00 mm	transparent	1 piece
1760100-B	300 x 300 mm	shore 60	1.00 mm	blue	1 piece
1780100-B	300 x 300 mm	shore 80	1.00 mm	blue	1 piece
1762100-BSU	75 x 55 mm	shore 60	1.00 mm	blue	25 pieces
1762100-BSU-100	75 x 55 mm	shore 60	1.00 mm	blue	100 pieces
1762100-SU	75 x 55 mm	shore 60	1.00 mm	transparent	25 pieces



**ATTENTION:** You can find silicone sheetings with a thickness of less than 0.75 mm in the chapter Otology / Silicone Sheetings!



## 02 Rhinology

- Nasal Packings / Tampons
- Nasal Splints
- Silicone Sheeting
- **Catheter**
- Suction Tubes
- Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)



## Epistaxis balloon catheter, sterile

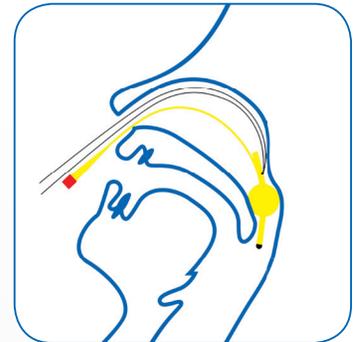
- Double-balloon catheter with two independently inflatable balloons
- The smaller balloon (10 cc) serves for stopping the bleeding in the nasopharynx
- The larger balloon (30 cc) stops bleeding within the main nasal cavity
- Integral airway allows post-op nasal breathing
- Slightly curved shape and flattened tip for easier insertion
- 1 piece/box



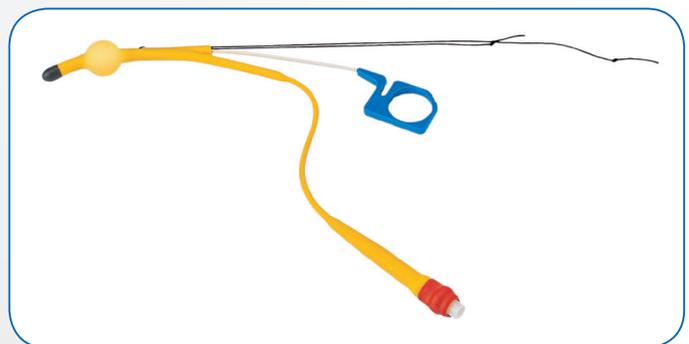
Size  
2040200 standard

## Choanal balloon catheter, sterile

- Simple insertion through the nostril with a stylet using local anesthesia on a conscious patient (local anesthetic not always necessary)
- Distinctly less painful than a Bellocq nasal pack
- Mucosa-sparing procedure, no trauma to nasal columella and nasal septum
- Smooth surface reduces bacterial growth in the epipharynx and reliably closes it off from the main nasal cavity
- Smooth retention threads in the pharynx
- Reduced irritation of the mucosa of the epipharynx
- Elastic fixation of the inflated choanal balloon with a conventional anterior nasal pack and a high degree of elasticity of the latex material ensure optimum positioning
- The anterior nasal pack is largely prevented from receding by the elasticity of the shaft
- The effect can be improved by simply reinflating the choanal balloon
- Simple, patient-friendly removal of the nasal pack
- 1 piece/box



Size      Feature      Material  
2040100    28 cm    with stylet    latex





## Antra® – maxillary sinus anatomic support balloon catheter, sterile

Antra is a tetrahedral balloon made from medical grade silicone with a Dacron® reinforced, white marked, non-elastic support surface for the orbital floor. This support surface remains largely flat when inflated and forms the ideal buttress for the fractured orbital floor in the maxillary sinus.

### Applications:

- Support for fractured and repositioned maxillary sinus walls, particularly the orbital floor
- Tamponade of the operative cavity for hemostasis and improved re-epithelialization of exposed bone in Denkers maxillary sinus procedure and tumor surgery in the main nasal cavity

### Features and Benefits:

- Reinforced supporting surface for the orbital floor
- Medical grade silicone with maximum tissue tolerance – therefore no microbic contamination and faster re-epithelialization
- Optimal positioning
- X-ray contrast (filled with a saline-Conray mixture 1:1)



	Size	Normal Volume	Maximum Volume	Packaging
1510010	standard	8 ml	15 ml	1 piece/box
1510011	large	12 ml	20 ml	1 piece/box



### Ethmo® – the anatomical ethmoid cavity balloon, sterile

The anatomical balloon has a straight, Dacron® reinforced, non-elastic supporting surface for the rhino base. On account of its special design it can be used individually as a tampon in surgery of flat cranial cavities.

#### Applications:

##### Ethmoid surgery

- Arrest of hemorrhaging
- Support of re-epithelialization of the bone surface

##### Frontal sinus surgery

- Arrest of hemorrhaging
- Improved opening of the infundibulum
- Support of the anterior wall after osteoplastic surgery

##### Traumatology and tumor surgery of the cranial base

- Long-term tampon and space retainer
- Support of the reconstructed rhinological base
- Dural fixation



#### Features and Benefits:

- Medical grade silicone with maximum tissue tolerance – therefore no microbic contamination and faster re-epithelialization
- Optimal positioning
- X-ray contrast (filled with a saline-Conray mixture, 1:1)
- Long-term use

	Size	Normal Volume	Maximum Volume	Packaging
1510100	standard	3.5 – 4.5 ml	6 ml	2 pieces/box



## 02 Rhinology

- Nasal Packings / Tampons
- Nasal Splints
- Silicone Sheeting
- Catheter
- **Suction Tubes**
- Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)



### Suction tubes for rhinology, single use, sterile

- Angled stainless steel cannulae
- With suction control
- Angled blue plastic Luer connector
- Atraumatic tip
- Wide range of lengths and diameters
- Packaging of 50 pieces per box



	Length	Diameter	
3012020	120 mm	2.0 mm	
3012025	120 mm	2.5 mm	
3012030	120 mm	3.0 mm	
3012035	120 mm	3.5 mm	
3012040	120 mm	4.0 mm	
3012050	120 mm	5.0 mm	
3013020	130 mm	2.0 mm	
3013030	130 mm	3.0 mm	
3014020	140 mm	2.0 mm	
3014025	140 mm	2.5 mm	
3014030	140 mm	3.0 mm	
3014035	140 mm	3.5 mm	
3014040	140 mm	4.0 mm	
3014050	140 mm	5.0 mm	
3016020	160 mm	2.0 mm	
3016025	160 mm	2.5 mm	
3016030	160 mm	3.0 mm	
3016035	160 mm	3.5 mm	
3016040	160 mm	4.0 mm	
3016050	160 mm	5.0 mm	
3112030	120 mm	3.0 mm	without suction control
3112035	120 mm	3.5 mm	without suction control
3112040	120 mm	4.0 mm	without suction control

### Suction handle standard with basket

	Length	Diameter	Packaging
36090	180 mm	6.0 mm	60 pieces/box



Please call +49 (0) 2206 / 90 81 11 to learn more about our customized OR-Sets.  
 (Minimum order: 150 Sets)  
 Please inform us about the number of lengths and diameters you need.



## 02 Rhinology

- Nasal Packings / Tampons
- Nasal Splints
- Silicone Sheeting
- Catheter
- Suction Tubes
- **Miscellaneous Products (Hydrocolloid Plaster, ENT-Patties)**



### Hydrocolloid plaster as occlusion plaster, sterile

The occlusion plaster is a hydroactive, sterile and self-adhesive wound dressing for moist wound treatment. In this special butterfly-like shape the wound dressing is used for the occlusion of the nose and sinuses by closing the nostrils. The dressing provides a moist wound environment that promotes physiological healing processes. The plaster may be used for a maximum of two days.

- Follow-up treatment after sinonasal surgery (endonasal sinus surgery, nasal septum surgery, turbinate surgery, endonasal laser surgery, transnasal neurosurgical operations, endonasal lacrimal surgery)
- Surgical treatment of choanal atresia or CSF fistula
- Moist wound treatment of endonasal injuries
- Moist wound treatment of dry nose
- Intermittent and continuous therapy of Osler's disease
- Packaging of 30 pieces per box



#### Dimensions

34-552216 55 x 22 x 16 mm



## ENT-Patties, sterile

- Quick and easy use
- High level of absorption
- 100% viscose
- No adhesion
- No fraying
- With X-ray contrast strip
- With 30 cm fixation thread



341015

Size (cm)

1 x 1.5

Packaging

10 x 10 pieces



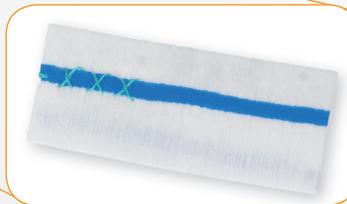
342050

Size (cm)

2 x 5

Packaging

10 x 10 pieces



34207525

Size (cm)

2 x 7.5 x 2.5

Packaging

10 x 6 pieces





# 03 Surgical Motor Systems

- **SpeedSurg / HighSpeed**
- SpeedSurg / LowSpeed



## SpeedSurg – HighSpeed micro drill und shaver system

### SpeedSurg, control unit

Discover the possibilities of operating up to 80,000 rpm in the HighSpeed range or up to 40,000 rpm in the LowSpeed range without having to change the console. The system automatically detects the connected motor and activates the appropriate program. Whether you want to drill or saw, the system has the appropriate functions programmed for all handpieces. The integrated warning system informs about the direction of movement, activation of HighSpeed mode and application errors.



**One console – for the entire High & LowSpeed range**

78CU80-EN

- 300-80,000 rpm, continuously
- Integrated 8 roller pump for controlled saline flow
- Compatible with Spiggle & Theis LowSpeed components

### HighSpeed electronic motor

The new motor system for High & LowSpeed applications guarantees the highest precision and versatility in surgical procedures in the field of ENT.

- Compact low-vibration motor with up to 80,000 rpm
- Robust design
- Compatible with all Spiggle & Theis HighSpeed handpieces

78MM08003





## HighSpeed drill handpieces

The ergonomic shape with integrated **SecureLock** and **QuickRelease** systems, guarantee maximum control and a high level of user comfort.

- **SecureLock** – acoustic and tactile feedback confirm secure handpiece attachment
- **QuickRelease** – for easy and safe release of rotary instruments
- Low-vibration
- Integrated safety mechanisms
- 70 mm, straight, 80,000 rpm – **78HG1070**
- 70 mm, angled, 80,000 rpm – **78HW1070**





## Rotary instruments, **sterile**, length I, **HighSpeed**, 1 piece/box

The rotary instruments from Spiggle & Theis represent the spearhead of the SpeedSurg system. Their clever design and high processing quality enable low-vibration drilling and milling jobs with maximum precision. A total of 30 different instruments gives you the flexibility you need. The A-toothing design is unrivaled in its class and, thanks to its special cutting geometry, it enables unequalled non-traumatic, fast drilling and milling.



### Carbide

	Blades	∅ head (mm)
HST760605	6	0.5
HST760608	6	0.8
HST760610	6	1.0
HST760614	6	1.4
HST760618	6	1.8
HST760623	6	2.3
HST740831	8	3.1
HST741040	10	4.0
HST741250	12	5.0
HST741460	14	6.0

- Drill heads with asymmetrical cutting design



### Steel, A-toothing

	Blades	∅ head (mm)
HSSMA7431	10	3.1
HSSMA7440	12	4.0
HSSMA7450	14	5.0
HSSMA7460	16	6.0

- Non-traumatic, fast drilling and milling



### Diamond, medium grain

	∅ head (mm)
HSDMD7604	0.4
HSDMD7606	0.6
HSDMD7608	0.8
HSDMD7610	1.0
HSDMD7614	1.4
HSDMD7618	1.8
HSDMD7623	2.3
HSDMD7431	3.1
HSDMD7440	4.0
HSDMD7450	5.0
HSDMD7460	6.0

- Dense and regular diamond spread for precise grinding



### Diamond, super coarse grain

	∅ head (mm)
HSDR27623	2.3
HSDR27431	3.1
HSDR27440	4.0
HSDR27450	5.0
HSDR27460	6.0

- Coarse diamond coating for quick and easy bone shaving and grinding



## Irrigation set including irrigation tube

- **Flexible** tube for individual adjustment
- Pre-installed fixing clips on tube
- Sterile
- Single use
- 10 pieces/box



78ZS06

## Foot pedal *Vario IPX8* for micro drill and shaver system

- Coolant control
- Program selection
- Motor control



78FS01

## Special oil spray

- Maintenance spray for drill handpieces, electronic motors and instruments

78PS01



Application of special oil spray is essential for proper functioning of motors and handpieces.



- Nozzle for application of special oil spray for drill handpieces

78AH01



- Nozzle for application of special oil spray for electronic motors

78AM01

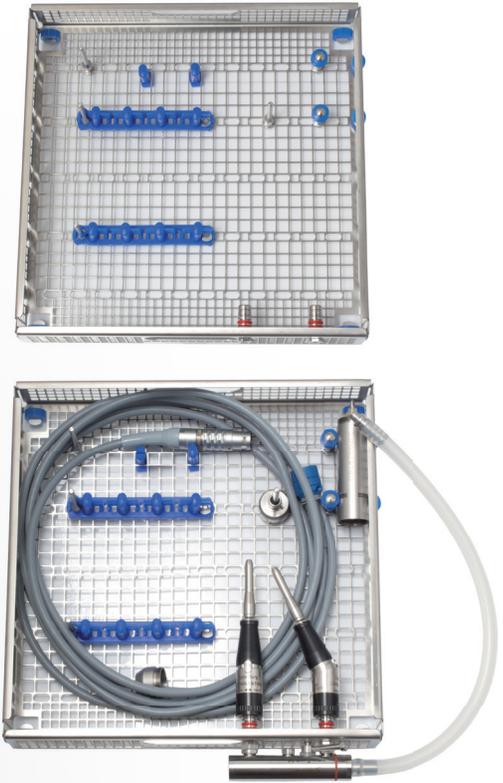




## System screen basket – for drilling handpieces and electronic motors, including flush plug

### Consisting of:

- Multi-system basket 236 x 236 x 48 (43), large grid, buffering elements
- Multi-system cover 239 x 239 x 7, closure
- Hanger bracket, rotatable
- Stop pin
- 3-step stepped sleeve
- Universal fixation, cheese-head screw (standard)
- Flexible holding band, 2 x holder segment
- Plate 5 mm, Ø 10 mm, Ø 4 mm hole, blue
- Flat adapter nut
- Multiadapter with 1 x special thread on the outside and inside
- Sinking tube with 2 x plug-in adapter with seal, quick fixation, Plug connection and 1 threaded plug
- Cap adapter filter Ø 10 mm, standard filter, ring Ø 11,5 x 1 mm
- LL female tube attachment Ø 6,5 mm
- Tube Ø 5 mm (inner diameter), 30 cm



78SK00

## SpeedSurg set

### Set containing:



■ Control unit



■ Electronic motor



■ Foot pedal



■ Tripod for cooling agent

78SS80-SET-EN



# 03 Surgical Motor Systems

- SpeedSurg / HighSpeed
- SpeedSurg / LowSpeed



## SpeedSurg, control unit

Whether you work with the new SpeedSurg system or your DT55 machine, we have the perfect fit for you. Thanks to our compatible system you can continue to use your proven handpieces and accessories on both systems.

78CU80-EN



- 300-40,000 rpm (in LowSpeed mode), continuously
- Integrated 8 roller pump for controlled saline flow

## LowSpeed electronic motor

- Compatible with the LowSpeed handpieces by Spiggle & Theis
- Approved for mechanical cleaning
- Compact, low-vibration motor with up to 40,000 rpm
- Robust design



77MM010



## Osteo-handpieces, LowSpeed, angled, 1 piece

- Approved for mechanical cleaning

77HW001	70 mm burs
77HW002	95 mm burs
77HW003	125 mm burs



## Osteo-handpieces, LowSpeed, straight, 1 piece

- Approved for mechanical cleaning

77HG001	44.5 mm burs
77HG002	70 mm burs
77HG003	95 mm burs
77HG004	125 mm burs



## Cooling tubes for LowSpeed handpieces (70mm), 1 piece

- Approved for mechanical cleaning
- For handpieces 77HG002 and 77HW001
- Short (4cm)
- Jet lavage

77ZS03



- Approved for mechanical cleaning
- For handpieces 77HG002 and 77HW001
- Long (5.25cm)
- Droplet irrigation

77ZS06



- Approved for mechanical cleaning
- For handpieces 77HG002 and 77HW001
- Long (5.25cm)
- Droplet irrigation
- Flexible

77ZS06-B



## Cooling tubes for LowSpeed handpieces (95mm), 1 piece

- Approved for mechanical cleaning
- For handpieces 77HG003 and 77HW002

77ZS04





## Diamond burs

The diamond coating of the bur is as important as the quality of the blade of a sharp instrument. Insufficiently coated burs deliver poor abrasion and lead to longer operating times. In addition, insufficient coating can result in undesired frictional heat and thus to heat-induced necrosis. The blanks for the Spiggle & Theis diamond instruments are manufactured using a special milling process. This way, dimensional tolerance and rotation accuracy are significantly improved compared to traditional turning processes.

- Only high-quality instruments enable the surgeon to achieve excellent clinical outcomes
- High quality diamond burs stand for lower operating temperatures, enhanced abrasion and a longer durability



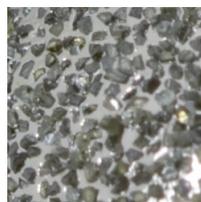
### Burs from Spiggle & Theis

The uniform and high dense coating of the burs guarantee reduced heat generation, optimal material abrasion and a long durability.



### Competitor product

The irregular diamond spread on this bur leads to increased heat generation and thus to heat-induced necrosis.



medium grain

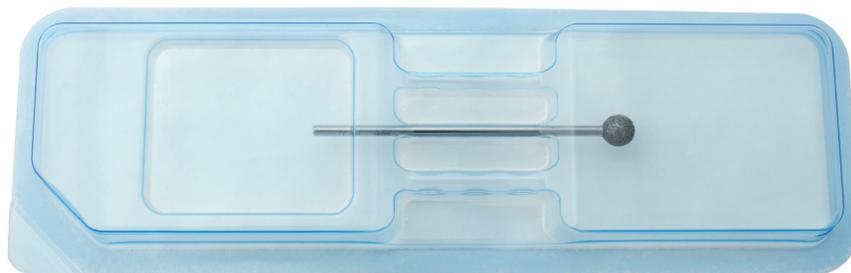


extra coarse grain



## Rotary instruments, single use

- Reduced costs – no sterilization required
- Compliant to highest hygienic requirements



Single sterile packaging

Diamond burs, medium grain, sterile, single use, length 70 mm, LowSpeed, 5 pieces/box



	Head Ø
DR070010891-S-05-1	0.8 mm
DR070011091-S-05-1	1.0 mm
DR070011491-S-05-1	1.4 mm
DR070012191-S-05-1	2.1 mm
DR070013191-S-05-1	3.1 mm
DR070014091-S-05-1	4.0 mm
DR070015091-S-05-1	5.0 mm
DR070016091-S-05-1	6.0 mm

- Dense and regular diamond spread for precise grinding

Further sterile burs for LowSpeed applications on request.



## Rotary instruments, 70 mm, multi use, non-sterile

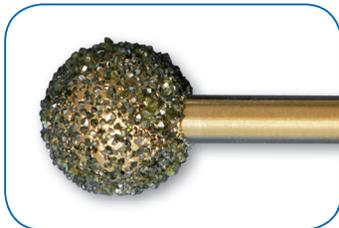
Diamond burs, medium grain, LowSpeed, 1 piece



	Head Ø
DR070010691	0.6 mm
DR070010791	0.7 mm
DR070010891	0.8 mm
DR070011091	1.0 mm
DR070011291	1.2 mm
DR070011491	1.4 mm
DR070011691	1.6 mm
DR070011891	1.8 mm
DR070012191	2.1 mm
DR070012391	2.3 mm
DR070012591	2.5 mm
DR070012791	2.7 mm
DR070012991	2.9 mm
DR070013191	3.1 mm
DR070013591	3.5 mm
DR070014091	4.0 mm
DR070014591	4.5 mm
DR070015091	5.0 mm
DR070016091	6.0 mm
DR070016591	6.5 mm
DR070017091	7.0 mm

- Dense and regular diamond spread for precise grinding

Diamond burs, extra coarse grain, LowSpeed, 1 piece



	Head Ø
DR070012393	2.3 mm
DR070012793	2.7 mm
DR070013193	3.1 mm
DR070013593	3.5 mm
DR070014093	4.0 mm
DR070014593	4.5 mm
DR070015093	5.0 mm
DR070016093	6.0 mm
DR070017093	7.0 mm

- Coarse diamond coating for quick and easy bone shaving and grinding

Diamond bur, medium grain, barrel, LowSpeed, 1 piece



	Head Ø
DR070132091	2.0 mm

Available lengths of 95 mm and 125 mm on request.



## Carbide burs, LowSpeed, 1 piece



	Head Ø	Blades
CRO70010506	0.5 mm	6
CRO70010806	0.8 mm	6
CRO70011006	1.0 mm	6
CRO70011206	1.2 mm	6
CRO70011406	1.4 mm	6
CRO70011606	1.6 mm	6
CRO70011806	1.8 mm	6
CRO70012106	2.1 mm	6
CRO70012306	2.3 mm	6
CRO70012708	2.7 mm	8
CRO70013108	3.1 mm	8
CRO70013508	3.5 mm	8
CRO70014010	4.0 mm	10
CRO70014510	4.5 mm	10
CRO70015008	5.0 mm	8
CRO70015012	5.0 mm	12
CRO70016008	6.0 mm	8
CRO70016014	6.0 mm	14
CRO70016508	6.5 mm	8
CRO70017016	7.0 mm	16

- Drill heads with asymmetrical cutting design
- Low-vibration

## Carbide burs, A-toothing, LowSpeed, 1 piece



	Head Ø	Blades
CRO70221010	1.0 mm	10
CRO70221410	1.4 mm	10
CRO70222310	2.3 mm	10
CRO70223110	3.1 mm	10
CRO70223510	3.5 mm	10
CRO70224012	4.0 mm	12
CRO70225014	5.0 mm	14
CRO70226016	6.0 mm	16

- Drill heads with asymmetrical cutting design
- Low-vibration

## Carbide burs, cross-cut, LowSpeed, 1 piece



	Head Ø	Blades
CRO70021410	1,4 mm	10
CRO70022312	2,3 mm	12
CRO70023112	3,1 mm	12
CRO70024014	4,0 mm	14
CRO70025014	5,0 mm	14
CRO70026016	6,0 mm	16

- Drill heads with asymmetrical cutting design
- Low-vibration

Available lengths of 95 mm and 125 mm on request.



Carbide burs, oval head, **LowSpeed**, 1 piece



	Head Ø	Blades
CR070074008	4.0 mm	8
CR070075510	5.5 mm	10

- Drill heads with asymmetrical cutting design
- Low-vibration

Lindemann, bone bur, length 65 mm, **LowSpeed**, 1 piece



	Head Ø	Blades
CR065051604	1.6 mm	4
CR065052104	2.1 mm	4

Available lengths of 95 mm and 125 mm on request.



## Stainless steel burs, LowSpeed, 1 piece



	Head (∅)	Blades
SR070010606	0.6 mm	6
SR070010806	0.8 mm	6
SR070011006	1.0 mm	6
SR070011408	1.4 mm	8
SR070011808	1.8 mm	8
SR070012308	2.3 mm	8
SR070012710	2.7 mm	10
SR070013106	3.1 mm	6
SR070013110	3.1 mm	10
SR070013506	3.5 mm	6
SR070013512	3.5 mm	12
SR070014012	4.0 mm	12
SR070014506	4.5 mm	6
SR070014512	4.5 mm	12
SR070015008	5.0 mm	8
SR070015012	5.0 mm	12
SR070016014	6.0 mm	14
SR070017016	7.0 mm	16

- High concentricity
- Good vibration characteristics

## Stainless steel burs, A-toothing, LowSpeed, 1 piece



	Head ∅	Blades
SR070222310	2.3 mm	10
SR070223110	3.1 mm	10
SR070223510	3.5 mm	10
SR070224012	4.0 mm	12
SR070225014	5.0 mm	14
SR070226016	6.0 mm	16
SR070227018	7.0 mm	18

- High concentricity
- Good vibration characteristics

## Stainless steel burs, bud form, LowSpeed, 1 piece



	Head ∅	Blades	Head length
SR070086014	6.0 mm	14	11.0 mm
SR070087016	7.0 mm	16	12.5 mm
SR070088016	8.0 mm	16	14.0 mm

- High concentricity
- Good vibration characteristics

Available lengths of 95 mm and 125 mm on request.



Stainless steel burs, bud form, cross-cut, LowSpeed, 1 piece



	Head $\emptyset$	Blades	Head length
SR070095012	5.0 mm	12	9.5 mm
SR070096014	6.0 mm	14	11.0 mm
SR070098016	8.0 mm	16	14.0 mm

- High concentricity
- Good vibration characteristics

Stainless steel bur, cylinder form, cross-cut, LowSpeed, 1 piece



	Head $\emptyset$	Blades	Head length
SR070126014	6.0 mm	14	11.0 mm

- High concentricity
- Good vibration characteristics

Stainless steel burs, oval head, cross-cut, LowSpeed, 1 piece



	Head $\emptyset$	Blades	Head length
SR070074010	4.0 mm	10	9.5 mm
SR070075012	5.0 mm	12	10.0 mm
SR070076014	6.0 mm	14	11.0 mm

- High concentricity
- Good vibration characteristics

Available lengths of 95 mm and 125 mm on request.





## ENT Shaver handpiece, angled, 1 piece

2092



## Shaver blades, single use, sterile, 10.5 cm, 5 pieces/box

- Concave = distal opening at the concave side of bending
- Convex = distal opening at the convex side of bending

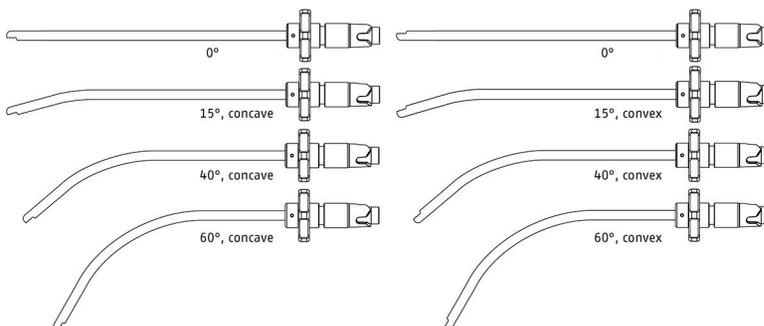
	Geometry	Angle	Inner Ø	Opening
5296	Tri Spike Cutter	0°	3.5 mm	straight
5342	Tri Spike Cutter	0°	4.0 mm	straight
5328	Tri Spike Cutter	0°	4.5 mm	straight
5295	Agg. Full Radius	0°	3.5 mm	straight
5344	Agg. Full Radius	0°	4.0 mm	straight
5330	Agg. Full Radius	0°	4.5 mm	straight
5302	Tri Spike Cutter	15°	3.5 mm	concave
5305	Tri Spike Cutter	15°	3.5 mm	convex
5346	Tri Spike Cutter	15°	4.0 mm	concave
5355	Tri Spike Cutter	15°	4.0 mm	convex
5308	Tri Spike Cutter	40°	3.5 mm	concave
5347	Tri Spike Cutter	40°	4.0 mm	concave
5356	Tri Spike Cutter	40°	4.0 mm	convex
5314	Tri Spike Cutter	60°	3.5 mm	concave
5348	Tri Spike Cutter	60°	4.0 mm	concave
5357	Tri Spike Cutter	60°	4.0 mm	convex
5353	Agg. Full Radius	60°	4.0 mm	concave



Tri Spike Cutter



Aggressive Full Radius





## 'Rhino burrs', disposable, sterile, 13.0 cm, 5 pieces/box

- Concave = distal opening at the concave side of bending
- Convex = distal opening at the convex side of bending

	Geometry	Angle	Inner Ø	Opening
5272	Rose	0°	3.5 mm	straight
5273	Rose	15°	3.5 mm	concave
5274	Rose	60°	3.5 mm	concave
5271	Diamond	15°	3.5 mm	concave
5277	Cylindrical	60°	3.5 mm	concave



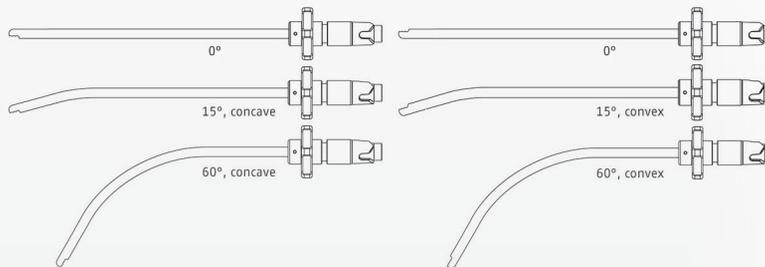
'Rhino Rose Burr'



'Rhino Diamond Burr'



'Rhino Cylindrical Burr'



## Mucotome handpiece, 1 piece

- 8,000 rpm
- Cutting width 5 mm
- Approved for mechanical cleaning

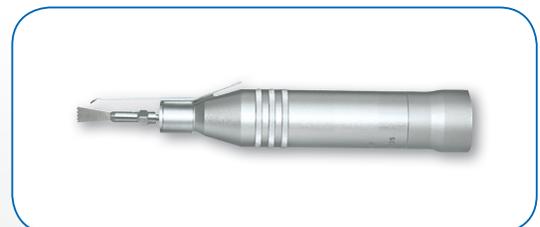
77MU000



## Micro osseoscalpel handpiece, 1 piece

- Handpiece for micro sagittal saw blades
- 15,000 rpm
- External cooling
- Approved for mechanical cleaning

77SP000

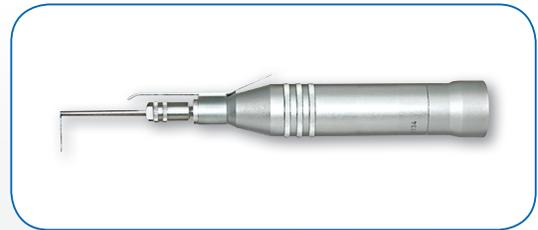




## Oscillating saw handpiece, 1 piece

- Handpiece for micro oscillating saw blades
- 15,000 rpm
- External cooling
- Approved for mechanical cleaning

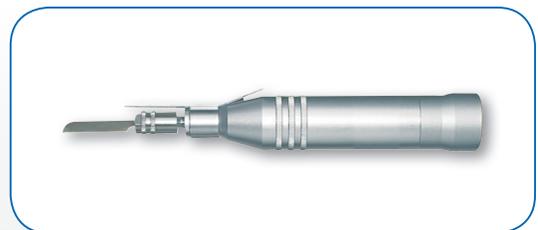
77SO000



## Compass saw handpiece, 1 piece

- Handpiece for micro compass saw blades
- 2 mm stroke
- External cooling
- Approved for mechanical cleaning

77SS000



## Special oil spray

- Maintenance spray for drill handpieces, electronic motors and instruments

78PS01



Application of special oil spray is essential for proper functioning of motors and handpieces.



- Nozzle for application of special oil spray for drill handpieces

78AH01



- Nozzle for application of special oil spray for electronic motors

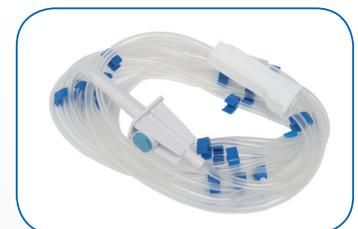
78AM01



## Irrigation set for cooling agent

- *Flexible* tube for individual adjustment
- Pre-installed fixing clips on tube
- Without cooling tube
- Sterile
- Single use
- 10 pieces/box

78ZS07





# 04 Bandages and Swabs

- Ear, Head, Neck and Nasal Bandages
- Swabs



## Ear bandages, sterile

- High quality material
- Easy and quick application
- Optimal patient comfort
- Compress included
- Available in three different versions
- Ready for application
- Single sterile packaging



## Ear bandage, one-sided, sterile

	Size	Packaging
35000	small	10 pieces/box
35001	medium	10 pieces/box
35002	large	10 pieces/box



## Ear bandage, two-sided, sterile

	Size	Packaging
35030	small	5 pieces/box
35029	medium	5 pieces/box
35028	large	5 pieces/box



## Ear bandage for otoplasty, sterile

	Size	Packaging
35033	small	5 pieces/box
35032	medium	5 pieces/box
35031	large	5 pieces/box





## Ear bandage, one-sided, sterile

- Post-operative outer ear bandage
- Variability through hook-and-loop fastener
- Integrated compresses
- Easy handling
- Flexible unit size
- High wearing comfort through asymmetrically attached hook-and-loop fastener
- Single sterile packaging

	Size	Packaging
35180	universal	10 pieces/box



## Ear bandage, one-sided, non-sterile

- Universal size
- Easy handling
- 100% cotton
- Single non-sterile packaging

	Size	Packaging
10994	universal	25 pieces/box



## Siegert Ear Bandage, sterile

- With one-sided self-adhesive surface
- Patient comfort
- D-shaped
- 10 pointed swabs to use as wound covering
- Double sterile packaging

	Size	Material	Packaging
35106	universal	foam	5 sets/box





## External nasal bandage, non-sterile

- For post-operative nasal surgery
- Cotton compress contains a stretch net bandage
- Fits the nasal contour
- Absorbs nasal secretion

	Size	Packaging
10903	universal	20 pieces/box



## Elastic head bandage, non-sterile

- For post-operative head surgery
- Elastic stretch bandage with face opening
- Simple application

	Size	Packaging
90005	large	25 pieces/box
90006	small	25 pieces/box



## Elastic compression bandage, non-sterile

- Compression for incisions in the area below the ear
- With ear slit and fixation strap
- With hook-and-loop fastener
- Simple application

	Size	Packaging
90007	universal	5 pieces/box





# 04 Bandages and Swabs

- Ear, Head, Neck and Nasal Bandages
- **Swabs**



### Pointed swabs

- All products with x-ray contrast strips
- Made of cotton
- Sterile and non-sterile

More types and sizes on request!

#### Double sterile packed, with safety thread

	Length	Description	Packaging
35003	6 cm		25 x 10 pieces/box
35004	13 cm		25 x 10 pieces/box
35005	8 cm	special length	25 x 10 pieces/box
35012	13 cm		25 x 6 pieces/box
35094	13 cm	24 threads	25 x 10 pieces/box
35098	8 cm	punched latex cover	25 x 6 pieces/box
35104	6 cm	24 threads	25 x 10 pieces/box
35111	9 cm	special length	25 x 5 pieces/box
35225	3 cm		25 x 10 pieces/box



#### Double sterile packed, without safety thread

	Length	Description	Packaging
35013	13 cm		25 x 10 pieces/box
35014	8 cm		25 x 10 pieces/box
35025	20 cm		25 x 5 pieces/box
35047	20 cm		25 x 10 pieces/box
35093	6 cm	24 threads	25 x 10 pieces/box
35141	13 cm	twisted, with record card	25 x 10 pieces/box

#### Non-sterile, with safety thread

	Length	Packaging
50170	6 cm	250 pieces/box
50177	8 cm	250 pieces/box
50223	3 cm	250 pieces/box
50224	4.5 cm	250 pieces/box
50225	10 cm	250 pieces/box
50235	13 cm	250 pieces/box

#### Non-sterile, without safety thread

	Length	Packaging
50180	6 cm	250 pieces/box
50178	8 cm	250 pieces/box
50230	13 cm	250 pieces/box
50232	20 cm	250 pieces/box



## Looped gauze pledget

- All products with x-ray contrast strips (except 50371 and 50373)
- Made of cotton
- Sterile and non-sterile

More types and sizes on request!

With thread, double sterile packed

	Size	Dimensions	Packaging
35027	plum-sized, 30 cm thread	2.0 x 2.0 cm	25 x 3 pieces/box
35506	plum-sized, 30 cm thread	2.0 x 2.0 cm	25 x 4 pieces/box
35097	plum-sized, 38 cm thread	2.0 x 2.0 cm	25 x 3 pieces/box
35103	egg-sized, 30 cm thread	2.5 x 2.5 cm	25 x 3 pieces/box
35198	egg-sized, 30 cm thread	2.5 x 2.5 cm	25 x 5 pieces/box



Without thread, non-sterile

	Size	Dimensions	Packaging
50371	walnut-sized	1.2 x 1.2 cm	250 pieces/box
50373	large	1.5 x 1.5 cm	250 pieces/box

With thread, non-sterile

	Size	Dimensions	Packaging
50161	plum-sized	2.0 x 2.0 cm	250 pieces/box
50254	egg-sized	2.5 x 2.5 cm	250 pieces/box
50279	XL	3.0 x 3.0 cm	250 pieces/box

## Preparation swab

With thread, with x-ray contrast strips, non-sterile

	Dimensions	Packaging
50248	6 x 6 cm	250 pieces/box
50249	10 x 10 cm	250 pieces/box





# 05 Sterile Covers

- **For Microscopes**
- For Mobile X-Ray Units (C-Arm)
- For Cameras, Cables and Banded Bags



## Sterile Covers

Microscopes, mobile x-ray units, cameras and other medical devices are nowadays part of the standard equipment in operating rooms and used on a daily basis. Due to continuously increasing hygienic demands, consistently high standards, easy and safe handling as well as wide range of products are mandatory.

Spiggle & Theis offer a wide range of diverse top quality products in the field of sterile covers. Remarkable product features are the new glass lens for microscope covers and the patented clip system for the multi-part c-arm covers.

For further specifications please see the individual product descriptions.

- Material: polyethylene
- Lenses: acrylic glass or glass
- Latex-free
- E0-sterilized
- Single sterile packaging

### Cover versions for microscopes:

<b>A</b>		Without observer tubes or other accessories
<b>B</b>		With extended monocular observer tubes
<b>C</b>		With binocular observer tubes
<b>D</b>		With binocular observer tubes
<b>E</b>		With binocular observer tubes and handgrips



- Lens standard version = *article number ends with F*
- Lens high quality version = *article number ends with H*
- Enforced lensering = *article number ends with X*
- Angled lens cover = *article number ends with G*
- Glass lens = *article number ends with GL*

## Microscope covers with acrylic glass lens for Zeiss microscopes

		Dimensions	Shape
<ul style="list-style-type: none"> <li>■ Lens diameter of 48 mm</li> <li>■ 10 pieces/box</li> </ul>	2548020F	50 x 155 cm	A
	2548030F	125 x 67 x 155 cm	B
	2548040F	135 x 80 x 155 cm	C
	2548050F	115 x 180 cm	D
	2548070F	115 x 260 cm	D
	2548090H	115 x 210 cm	D

## Microscope covers with acrylic glass lens for Zeiss or Möller-Wedel microscopes

		Dimensions	Shape
<ul style="list-style-type: none"> <li>■ Lens diameter of 65 mm</li> <li>■ 10 pieces/box</li> </ul>	2565020H	115 x 180 cm	D
	2565030H	115 x 260 cm	D
	2565030HG	115 x 260 cm	D
	2565030HX	115 x 260 cm	D
	2565035H	120 x 260 cm	E handgrips
	2565040H	115 x 300 cm	D
	2565040HG	115 x 300 cm	D
	2565050H	115 x 210 cm	D
	2565060F	135 x 80 x 155 cm	C
	2565070F	50 x 160 cm	A
	2565080H	125 x 67 x 155 cm	B
	2565080HX	125 x 67 x 155 cm	B
	2565090H*	137 x 260 cm	D
	2565100H*	137 x 380 cm	D
	2565120F	∅ 50 cm	cap-shaped
	2565120FXL	∅ 130 cm	cap-shaped
	2500010**	universal (35 x 14 cm)	handgrips

\* 5 pieces/box    \*\* 20 pair/box

## Microscope covers with acrylic glass lens for Leica microscopes

		Dimensions	Lens-∅	Packaging
<ul style="list-style-type: none"> <li>■ 3 different lens diameters</li> <li>■ Shape D</li> </ul>	2500110H*	115 x 180 cm	70 mm	10 pieces/box
	2500120H*	115 x 260 cm	70 mm	10 pieces/box
	2500130H*	137 x 265 cm	70 mm	5 pieces/box
	2500140H*	115 x 300 cm	70 mm	10 pieces/box
	2500140F	115 x 300 cm	70 mm	10 pieces/box
	2500150H	137 x 380 cm	70 mm	5 pieces/box
	2510110H**	115 x 300 cm	87.5 mm	5 pieces/box
	2520110H	137 x 380 cm	105 mm	10 pieces/box

\* angled lens    \*\* for Leica M680

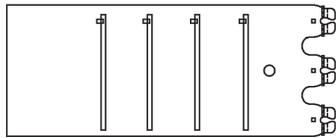


## Microscope covers with glass lens:

Glass lenses are the gold standard. Thanks to their unsurpassed transparency, the image transmission allows you the best possible sight in the OR.

### Features:

- High quality glass ensures a clear view
- Attractive price-performance ratio



With binocular observer tubes



Angled lens: acrylic glass or glass



Straight lens: acrylic glass or glass

## Microscope covers with glass lens for Zeiss or Möller-Wedel microscopes

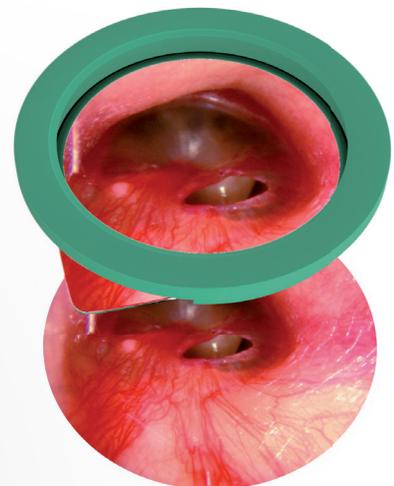
	Dimensions	Lens-Ø	Packaging
2565030GL	115 x 260 cm	65 mm	10 pieces/box
2565035GL*	120 x 260 cm	65 mm	10 pieces/box
2565040GL	115 x 300 cm	65 mm	10 pieces/box
2565090GL	137 x 260 cm	65 mm	5 pieces/box
2565100GL**	137 x 380 cm	65 mm	5 pieces/box

\* with grips; universal cover    \*\* for ZEISS microscopes

## Microscope cover with glass lens for Leica microscopes

	Dimensions	Lens-Ø	Packaging
2500130GL*	137 x 265 cm	70 mm	5 pieces/box

\*angled glass lens





# 05 Sterile Covers

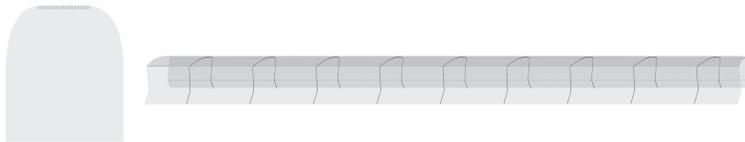
- For Microscopes
- **For Mobile X-Ray Units (C-Arm)**
- For Cameras, Cables and Banded Bags



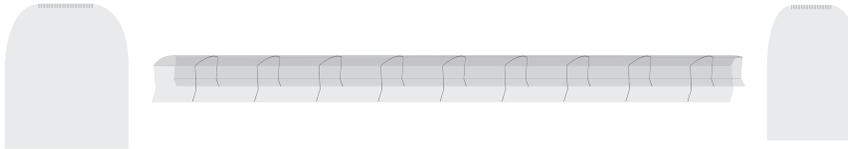
## Cover versions for mobile x-ray units (c-arm)

- Material: polyethylene
- One-piece universal covers as well as two- and three-piece covers for specific systems
- All two- and three-piece covers with special clip system to drape the c-shape
- The clip system allows easy movement and adjustment of the c-arm whilst draped (retaining sterility)

**A**



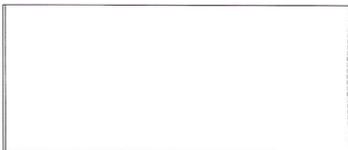
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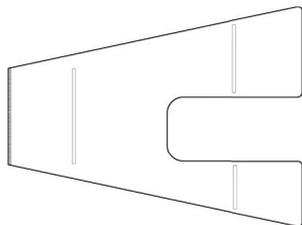
**C**



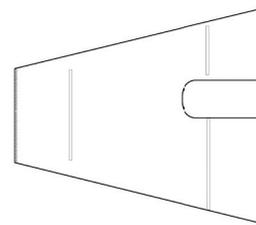
**D**



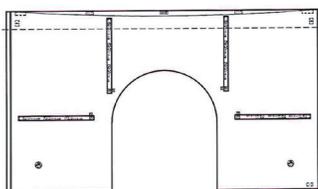
**E**



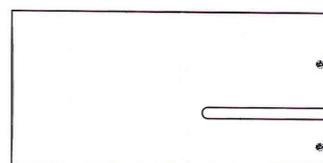
**F**



**G**



**H**





## Sterile Covers for mobile x-ray units (c-arm)

	Dimensions	Description	Shape	Feature	Packaging
2900110	115 x 240 cm	universal	D	one-piece	10 pieces/box
2900200	150 x 260 cm	universal, curved shape	G	one-piece	10 pieces/box
2900300	190 x 105 cm	universal, holding bands	D	one-piece	10 pieces/box
2900400	230 x 100 cm	universal, slotted	D	one-piece	10 pieces/box
2900500	90 x 210 cm	universal, with strips	D	one-piece	10 pieces/box
2900502	210 x 16 x 14 cm*	for Siremobile	A	two-piece	4 sets/box
2900503	210 x 16 x 14 cm*	for Siremobile	B	three-piece	4 sets/box
2900602	170 x 13 x 9 cm*	for Ziehm CB7D	A	two-piece	5 sets/box
2900603	170 x 13 x 9 cm*	for Ziehm CB7D	B	three-piece	5 sets/box
2900703	190 x 13 x 11 cm*	for Philips BV/29	B	three-piece	4 sets/box
2900712	190 x 13 x 11 cm*	for Philips BV/25	A	two-piece	4 sets/box
2900810	197 x 65 cm	for Arcadis, with clips	C	one-piece	4 pieces/box
2900813	210 x 16 x 14 cm*	for Arcadis Avantic	B	three-piece	4 pieces/box
2900820	105 x 220 cm	for mobile x-ray unit, mini	H	one-piece	4 pieces/box
2900821	137 x 198 cm	for mobile x-ray unit, mini	E	one-piece	4 pieces/box
2900822	138 x 160 cm	for mobile x-ray unit, mini	F	one-piece	10 pieces/box
2900910	210 x 16 x 14 cm*	for Siremobile 2000, w. springbow	B	three-piece	10 sets/box
2900930	210 x 16 x 14 cm*	for GE 9800, clip-system	B	three-piece	4 pieces/box
2900940	192 x 14 x 10 cm*	for Philips BV Libra	B	three-piece	10 pieces/box
2901000	140 x 480 cm	O-Arm-Cover	B	three-piece	4 pieces/box

\*) Dimensions L x W x H of clip system



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## 05 Sterile Covers

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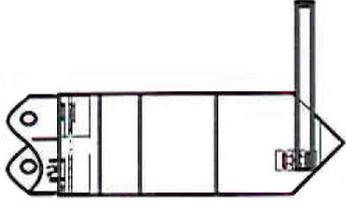
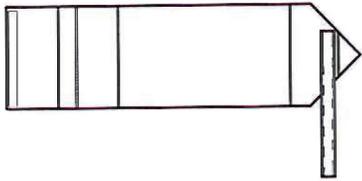
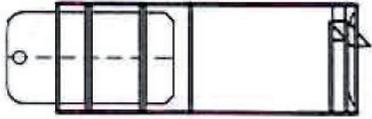
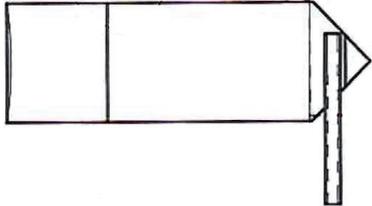
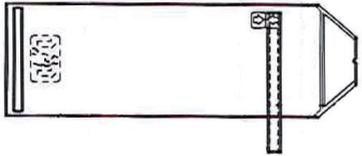
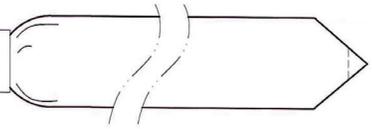
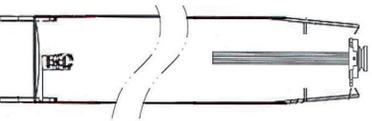
# 05 Sterile Covers

- For Microscopes
- For Mobile X-Ray Units (C-Arm)
- **For Cameras, Cables and Banded Bags**



## Sterile cover versions for cameras and cables

- Material: polyethylene
- One-piece type, specific covers
- Latex-free

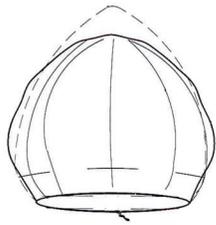
<b>A</b>		<b>2800050</b>	<ul style="list-style-type: none"><li>■ 13 x 259 cm</li><li>■ For camera system; telescopically folded</li><li>■ With insertion aid</li><li>■ 50 pieces/box</li></ul>
<b>B</b>		<b>2800060</b>	<ul style="list-style-type: none"><li>■ 15 x 250 cm</li><li>■ For camera system; with cardboard loader</li><li>■ With insertion aid</li><li>■ 20 pieces/box</li></ul>
<b>C</b>		<b>2800070</b>	<ul style="list-style-type: none"><li>■ 8 x 150 cm</li><li>■ For drill cable</li><li>■ 30 pieces/box</li></ul>
<b>D</b>		<b>2800090</b>	<ul style="list-style-type: none"><li>■ 15 x 240 cm</li><li>■ For camera system</li><li>■ Without insertion aid</li><li>■ 20 pieces/box</li></ul>
<b>E</b>		<b>2800100</b>	<ul style="list-style-type: none"><li>■ 17,5 x 240 cm</li><li>■ For camera system</li><li>■ 20 pieces/box</li></ul>
<b>F</b>		<b>2800110</b>	<ul style="list-style-type: none"><li>■ 16 x 254 cm</li><li>■ For camera system</li><li>■ With ring</li><li>■ 15 pieces/box</li></ul>
<b>G</b>		<b>2800270</b>	<ul style="list-style-type: none"><li>■ 15 x 250 cm</li><li>■ For camera system</li><li>■ With connector</li><li>■ 10 pieces/box</li></ul>



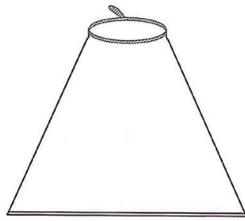
## Cover versions for banded bags

- Material: polyethylene
- One-piece type, specific covers
- Latex-free

A



B



## Sterile covers for banded bags

- Round or box shape
- Double stitched
- Strong elastic band

	Dimensions	Shape	Packaging
2700001	40 x 45 cm	A	20 pieces/box
2700011	42 x 50 cm	A	20 pieces/box
2700021	60 x 50 cm	A	20 pieces/box
2700031	75 x 75 cm	A	15 pieces/box
2700041	90 x 75 cm	B	20 pieces/box
2700051	120 x 110 cm	B	15 pieces/box
2700061	75 x 75 cm	B	20 pieces/box
2700071	75 x 90 cm	B	20 pieces/box
2700081	80 x 100 cm	B	20 pieces/box



# 06 Lid Implants (Lid Chains)

- Lid Implants and Test Weights



## Lid implants, sterile

The Berghaus/Schrom lid chain is an implant to restore dynamic closure of the eye in cases of Lagophthalmus, resulting from facial paralysis. The implant is in the form of a chain and thus the malleability results in an optimal adaption to the form of the tarsus.

The pre-drilled holes are to be used for easier fixation. Using platinum and iridium has many advantages over the commonly used gold implants, particularly when considering weight distribution and biocompatibility. The combination of the materials and the chain form is reflected in the above-average results and lower rate of complications.



### Advantages of the lid chain in comparison with conventional implants

- Flexible
- Very good tissue compatibility
- Increased density (volume reduction > 10%)
- Optimal pretarsal placement
- Reduction in post-operative complications
- Excellent results



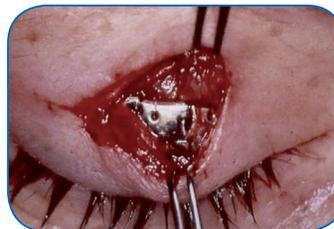
Rigid gold implant



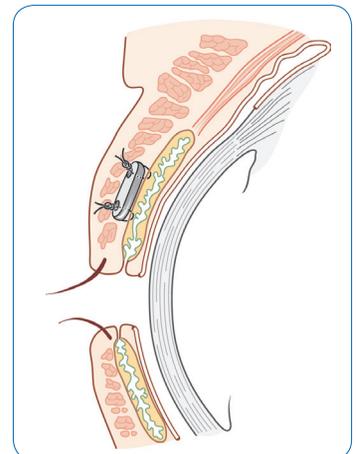
Flexible lid chain

### Advantages of lidloading

- Complete closure of the eyelid
- Completely reversible without complications
- No restriction of the peripheral vision with binocular eyesight
- Can be combined with other surgical eyelid corrective procedures



Front view



Schematic diagram:  
Sagittal view of an implanted lid chain

- Material: Platinum/Iridium (Pt/Ir) alloy, 97% / 3%
- Single sterile packaging

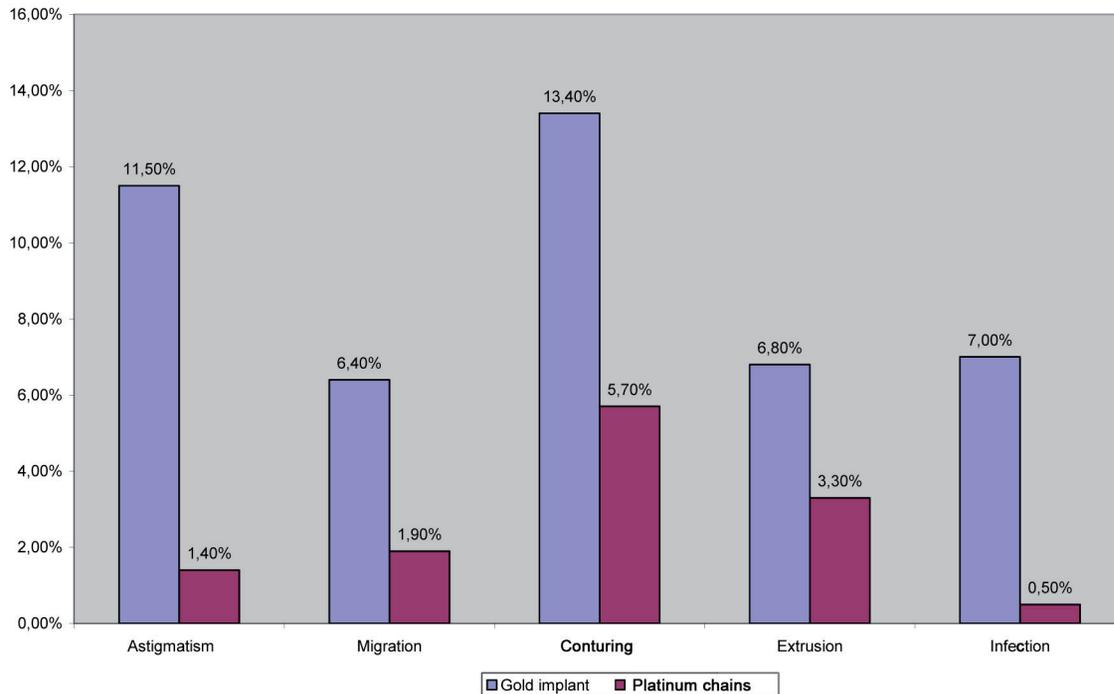
	Weight
1500-06	0.6 g
1500-08	0.8 g
1500-10	1.0 g
1500-12	1.2 g
1500-14	1.4 g
1500-16	1.6 g
1500-18	1.8 g
1500-20	2.0 g

**only on request**

1500-22	2.2 g
---------	-------



## Comparison of post-operative complications of platinum chains and gold implants



Source: Development and evaluation of a lid implant for use in the surgical correction of lagophthalmos with peripheral facial paralysis, Schrom 2005

## Test weights, non-sterile

Weights are offered from 0.6 g to 2.0 g in 0.2 g increments. The appropriate weight is determined by preoperative fitting. For this purpose, test weights are used, which are glued to the upper lid to determine a sufficient lid closure.

**Test weights:**  
Stainless steel (not for implantation!)



Test weights and one lid chain

	Description	Weight	Packaging
1500-PG06	test weight	0.6 g	1 piece
1500-PG08	test weight	0.8 g	1 piece
1500-PG10	test weight	1.0 g	1 piece
1500-PG12	test weight	1.2 g	1 piece
1500-PG14	test weight	1.4 g	1 piece
1500-PG16	test weight	1.6 g	1 piece
1500-PG18	test weight	1.8 g	1 piece
1500-PG20	test weight	2.0 g	1 piece
1500-PGKS	adhesive strips		50 pieces/box
1500-PGSET	test weight set		8 pieces/box
optional / not included in set:			
1500-PG22	test weight	2.2 g	1 piece



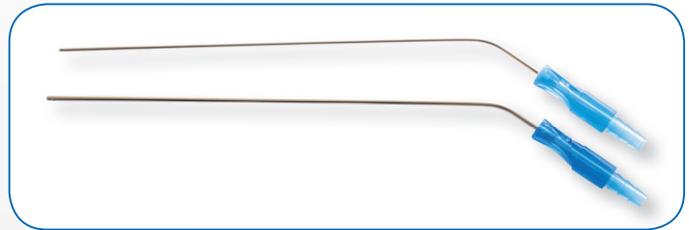
# 07 Miscellaneous Products

- Suction Tubes for Laryngology, Headband, Cotton Wool Balls, Instrument Wipe, Silicone Sheeting



## Suction tubes for laryngology, single use, sterile

- For microlaryngoscopy (MLS)
- Suction control
- Angled (knee-bent) stainless steel cannulas
- Atraumatic (rounded) cannula tip
- Push-on Luer connector made of blue plastic
- Distal opening (suction protection)
- Single, sterile packaging



	Length	Diameter	Packaging
3025020	250 mm	2.0 mm	10 pieces/box
3025030	250 mm	3.0 mm	10 pieces/box

Please call +49 (0) 2206 / 90 81 11 to learn more about our customized OR-Sets.  
(Minimum order: 150 sets)  
Combine according to your wishes exactly the suction tubes you need!

## Silicone Sheeting, non-sterile

This medical grade silicone sheet is used during surgery or pathological examinations as a suture underlay, and for (mechanical) fixation and preparation of tissue. The sheets are individually packed and non-sterile when delivered. Due to its material, the sheet is stable enough to secure preparations with the appropriate needles e.g. cannulas and thick enough to prevent the point of the needle going through to the other side.

- Suture underlay
- For (mechanical) fixation and preparation of tissue
- **Not for implantation!**



	Dimensions	Description	Packaging
176B500-BSU	60 x 90 x 5 mm	60 Shore	5 pieces/box

## 07 Miscellaneous Products

Headband, Cotton Wool Balls, etc.

SPIGGLE & THEIS Medizintechnik GmbH



### Instrument wipe, PVA

- Expanding cleaning pad for micro-surgical instruments
- Single, sterile packaging

	Dimensions	Packaging
66500	82 x 82 mm	20 pieces/box



### Headband, PVA

- Expanding headband for surgical staff
- Sweat absorbing
- Keeps forehead cool and dry
- Single, sterile packaging

	Dimensions	Packaging
66510	200 x 40 mm	20 pieces/box



### Dressing cotton wool, sterile

- Dressing cotton wool balls
- Pure cotton
- Single, sterile packaging

	Description	Packaging
35224	1 g, round	25 pieces/box



### Tampon strips, with x-ray strip

- X-ray strip
- 4-ply
- Pre-washed
- Single, sterile packaging

	Description	Packaging
35099	50 x 1 mm	25 pieces/box

