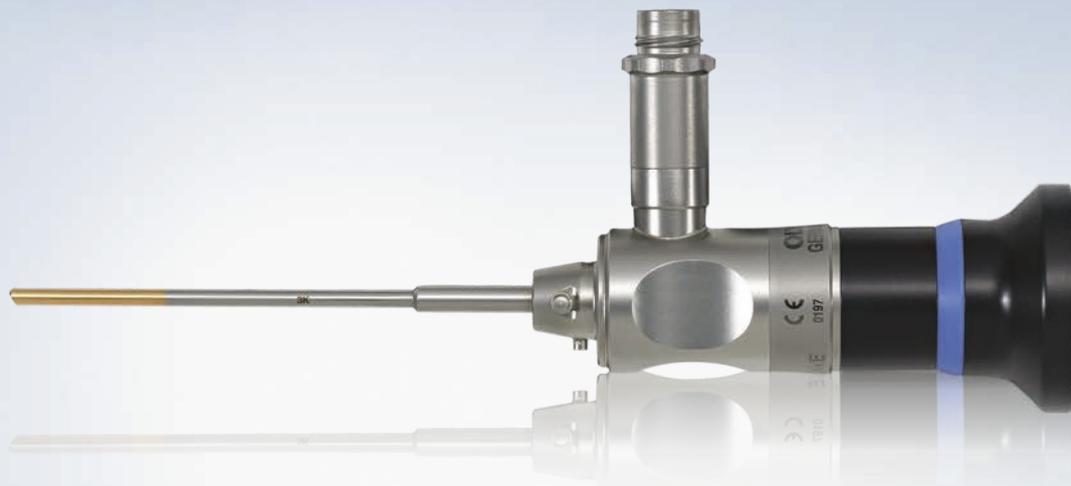


OLYMPUS

Your Vision, Our Future

SOUND INNOVATIONS

Otologic solutions



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TRUEVIEW II

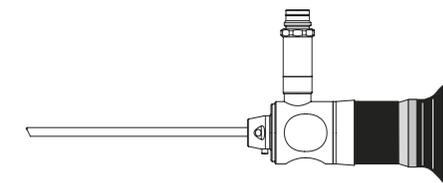
Otoscopes

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

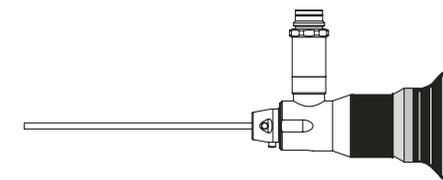
The 1.9 mm TrueView II telescopes are fully autoclavable and very durable thanks to Olympus advanced fibre technology.

For the physician this means:

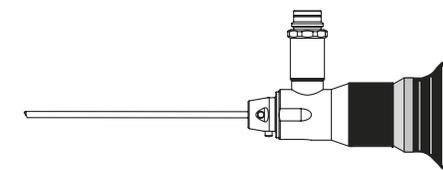
- **Superior optical quality**
- **High resolution**
- **Bright images**
- **Brilliant colour reproduction**
- **Durable mechanical design**
- **Ergonomic design**



A70963A



A7504A



A7505A

OTOLOGY INSTRUMENT SOLUTIONS

Richards and Explorent instruments

Olympus offers the Richards and Explorent lines of hand-held stainless steel surgical instruments.

The extensive line of otology procedure-specific instruments specialising in stapes, OCR and ISJ procedures. We focus on providing precise and dependable instruments for the ENT specialty and assemble the right otology instrument set for you. Please contact Olympus.



STAPES SURGERY SOLUTIONS

SMart piston technology

Olympus offers nitinol, a shape-memory alloy, for middle-ear use.

The reason stapes surgery is challenging is that there is little tolerance for error. SMART piston technology incorporates our patented 'self-crimping' nitinol alloy which simplifies stapes surgery by taking the worry out of crimping.

- Nitinol (nickel-titanium alloy) is a shape-memory metal alloy that has been used in medical applications for years. Since nitinol 'self-fashions' with heat, the crimping manoeuvre is dramatically simplified.¹
- The SMART De La Cruz piston simplifies stapes surgery with its self-measuring body. This self-measuring feature improves a surgeon's ability to measure implant length accurately.
- The SMART malleus-to-footplate piston is used for revision stapes cases. The surgeon simply positions the shaft at the footplate and the end of the wire loop between the malleus and elevated tympanic membrane.
- MRI-compatible up to 3 Tesla.



In vivo illustration of SMart piston (EG70145927)

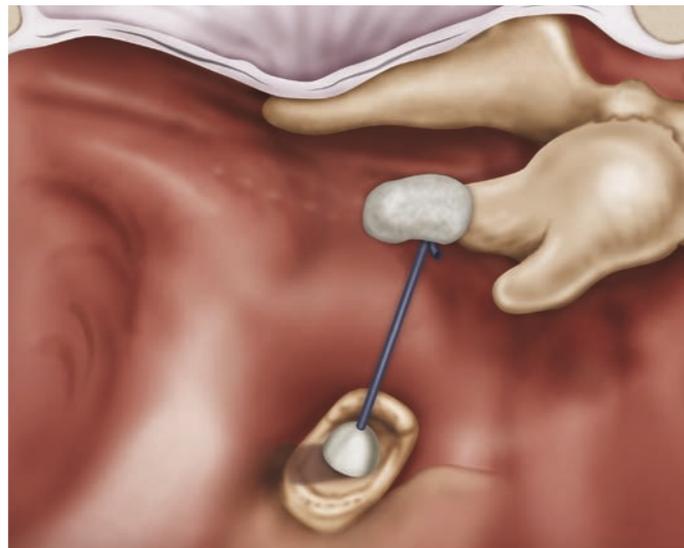
¹ Castleman, L.C., and Motzkin, S.M. Biocompatibility of Nitinol Alloy as an Implant Material. J. Biomed. Mater. Res. 10, 645-732 (1976). Kaperman, A., Ryhanen, J., Danilov, A. Effect of Nickel-Titanium Shape-Memory Alloy on Bone Formation. Biomaterials 22, 2475-2480 (2001). Gyrus ENT internal technical memo. Durig, T., Pelton, A., Stockel, D. Superelastic Nitinol for Medical Devices. Med. Plast. and Biomater., March/April (1998).

OtoMimix bone cement

Olympus offers the only hydroxylapatite bone cement indicated for middle-ear use.

OtoMimix Hydroxylapatite (HA) bone cement can be used during revision and primary stapes surgery to keep the prosthesis properly positioned around the vestibule. In revision stapes, OtoMimix extends and connects the piston loop and the distal incus remnant.

- OtoMimix is packaged in a convenient 2.0 gram size and is easily applied using a Rosen needle. A small area of the mucosal layer on the lenticular process of the incus should be removed where OtoMimix is to be applied. Typical working time for OtoMimix is two to four minutes, and it will be hard to the touch after five to seven minutes.²



In vivo illustration of OtoMimix (EG70143266) with SMart De La Cruz piston (EG70142057)

ISJ SURGERY SOLUTIONS

OtoMimix bone cement

Olympus offers the only hydroxylapatite bone cement indicated for middle-ear use.

- OtoMimix 'bridges the gap' for incudo-stapedial joint discontinuity. OtoMimix HA bone cement can be used to reconstruct the conductive component by placing a small aliquot of the cement on the discontinuity.
- OtoMimix is packaged in a convenient 2.0 gram size and is easily applied using a Rosen needle. A small area of the mucosal layer on the lenticular process of the incus should be removed where OtoMimix is to be applied. Typical working time for OtoMimix is two to four minutes and it will be hard to the touch after five to seven minutes.



In vivo illustration of OtoMimix (EG70143266)

² Goebel, Joel A. MD, FACS, Abraham, Jacob MD. Use of Mimix Hydroxylapatite Bone Cement for Difficult Ossicular Reconstruction. Otolaryngol. Head Neck Surg., 2005; 132 (5): 727-34.

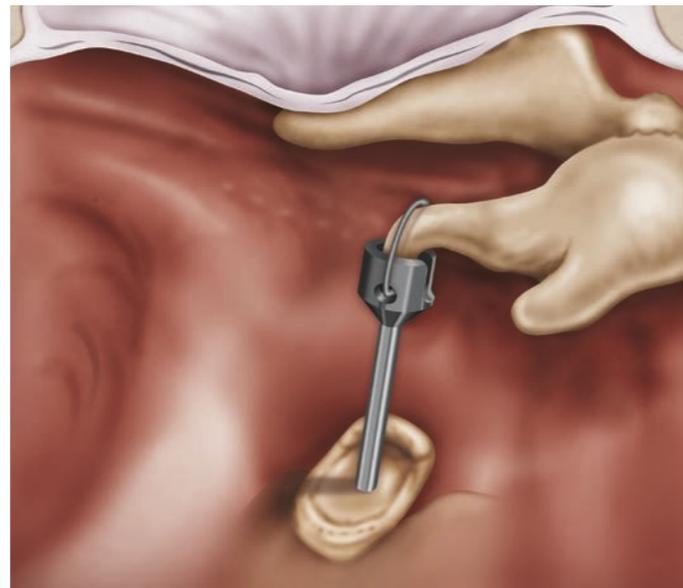
STAPES SURGERY SOLUTIONS

Micron titanium bucket handle

With its micron titanium bucket handle, Olympus introduced commercially available stapes implants.

The classic bucket handle is now available in titanium featuring our patented micron finish. The patented micron titanium finish smooths all surfaces, reducing the potential for extrusion due to sharp angles. This proprietary chemical process not only smooths the surface but 'dulls' it, which reduces glare.

- Titanium is thought to provide excellent sound conduction even at higher frequencies because of its small mass.
- Titanium has excellent handling properties, is well tolerated by tissue and it is MRI-compatible up to 3 Tesla.



In vivo illustration of micron titanium classic bucket handle (EG70142141)

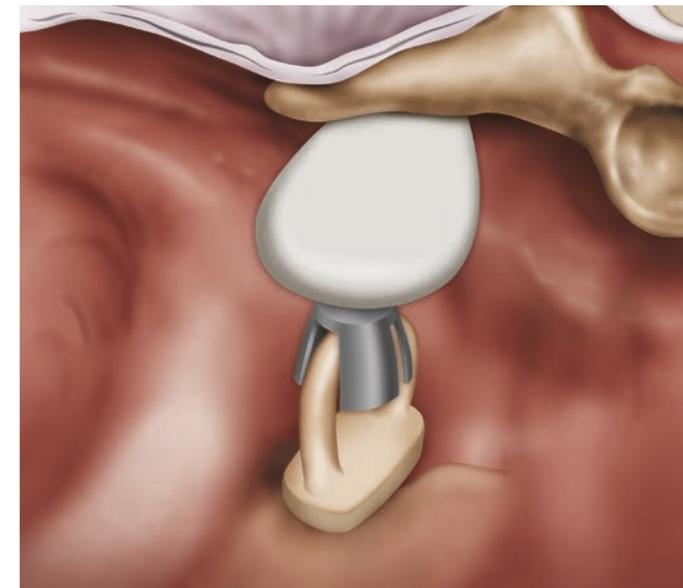
OCR SURGERY SOLUTIONS

Dornhoffer implant system

Olympus offers hydroxylapatite middle-ear implants.

The Dornhoffer implant system combines three-point stability: At the stapes, the malleus and at the footplate.

- The Dornhoffer interpositional offers stability at the stapes and malleus. The titanium cradle locks onto the superstructure of the stapes and accommodates an intact stapedial tendon. The hydroxylapatite head is designed with a malleus notch for enhanced stability at the malleus.
- The 2.0 mm size has been found to fit 95% of all patients.³



In vivo illustration of Dornhoffer interpositional PORP (EG70141014)

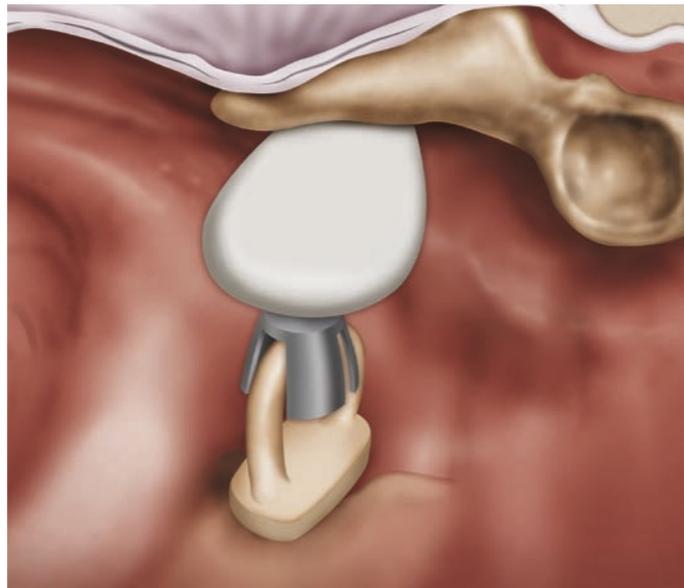
³ Smith, J, Gardner, E, Dornhoffer, J. Hearing Results with a Hydroxylapatite/Titanium Bell Partial Ossicular Replacement Prosthesis. The Laryngoscope 2002; 112: 1796-1799.

OCR SURGERY SOLUTIONS

OtoMimix PORP and TORP

The OtoMimix PORP and TORP is Olympus' solution for stability in ossiculoplasty. It is the first hydroxylapatite bone cement to be used with the hydroxylapatite middle-ear implants.

- Hydroxylapatite is one of the most biocompatible materials for implant use. Because its chemical composition resembles that of real bone, it is well tolerated by the human body.
- OtoMimix can be used to provide stability at the malleus by connecting the prostheses head to the malleus.

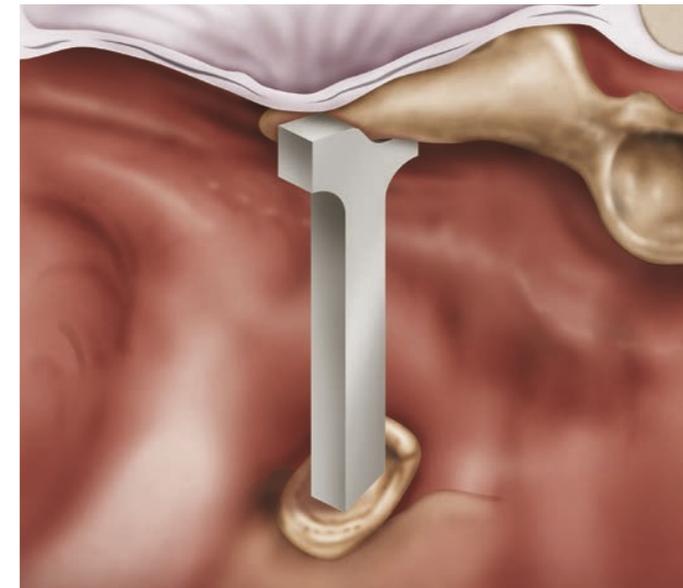


In vivo illustration of OtoMimix (EG70143266) with Dornhoffer interpositional PORP (EG70141014)

Kartush strut system

The Kartush strut system is the simple solution for providing stability in ossicular chain reconstruction using hydroxylapatite struts.⁴

- The self-locking nature of the strut design provides added stability, while the simplicity of the strut design allows for excellent visualisation.
- The strut prostheses are placed beneath the malleus, which minimises the possibility of extrusion and locks them in place. When the malleus is absent, the Kartush strut can be combined with a cartilage cap.



In vivo illustration of Kartush incus-stapes strut (EG140850)

⁴ Kartush, Jack M. Ossicular Chain Reconstruction Using Hydroxylapatite Struts. Procedure profile on file at Olympus.

OCR SURGERY SOLUTIONS

Micron monolithic implant system

Micron titanium was developed to help reduce glare.

The micron all-titanium monolithic system is available in centred and off-centred orientations to maximise visualisation. The open head design is tiltable to facilitate implant placement and handling. Our patented micron titanium finish smooths all surfaces reducing the potential for extrusion due to sharp angles. This proprietary chemical process not only smooths the surface but 'dulls' it, which reduces glare.

- The tiltable head design easily conforms to the drum angle.
- The slit superstructure provides stability of the PORP onto the stape superstructure and cradles an intact stapedial tendon.



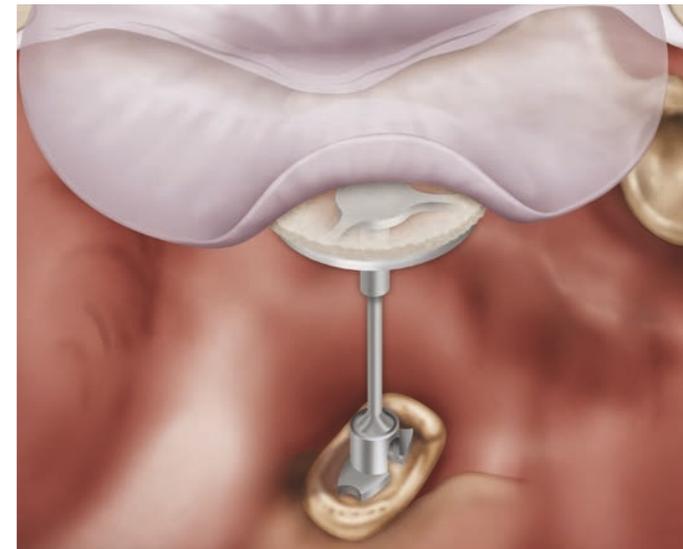
In vivo illustration of micron titanium monolithic centred PORP (EG70142004)

Micron adjustable implant system

Micron titanium is exclusively available through Olympus.

The micron adjustable titanium implant system provides stability in an all-titanium TORP and PORP.

- Sizing at the time of implantation allows for flexibility while requiring minimal stocking units.
- For added stability at the footplate, the Dornhoffer titanium footplate shoe is designed for use with 0.9 mm titanium-shafted TORPs.



In vivo illustration of product bundle (EG70143300) Dornhoffer malleable TORP with Dornhoffer titanium footplate shoe

ORDERING INFORMATION

Featured products

Catalogue No.	Description
EG70145927	SMart Piston (0.6 x 4.25 mm)
EG70142057	SMart De La Cruz piston (0.6 x 4.25 mm)
EG70142038	SMart malleus to footplate piston (0.6 x 6.0 mm)
EG70142141	The classic bucket handle in micron titanium (narrow piston diameter 0.4 x 4.0 mm large 1.0 mm well diameter)
EG70141014	Dornhoffer interpositional PORP
EG70143254	Dornhoffer titanium footplate shoe (designed for use with 0.8 mm TORP shafts made of Hapex, Plasti-Pore and HA)
EG70142004	Micron titanium monolithic centred PORP (tiltable head)
EG70141045	Micron titanium adjustable centred TORP (2.0–10.0 mm range and 3.0 mm head diameter)
EG70143253	Dornhoffer titanium footplate shoe (designed for use with 0.9 mm titanium TORP shafts)
EG140853	Kartush incus strut (short 2.75 mm)
EG140850	Kartush incus-stapes strut (short 0.76 x 5.3 mm)
EG70143266	OtoMimix (2.0 gram)
EG130726	Rosen needle (dull)
A70963A	Telescope, autoclavable, 30° direction of view, wide-angle field of view, 70 mm working length
A7504A	Telescope, autoclavable, 0° direction of view, 65 mm working length
A7505A	Telescope, autoclavable, 30° direction of view, 65 mm working length

Instruments

Catalogue No.	Description
EG130003	Richards posigator straight serrated positive locking jaws 4.0 mm, 70.0 mm ebony
EG130004	Richards posigator straight smooth positive locking jaws 4.0 mm, 70.0 mm ebony
EG130725	Richards Rosen needle sharp disposable box
EG130726	Richards Rosen needle blunt disposable box
EG250005	Rosen round knife 45°, knife diameter = 1.5 mm
EG254200	Wullstein needle slight curved, 16.5 cm
EG253500	Wullstein knife, straight
EG251500	Plester flab knife for incision, 2.5 mm
EG255006	Micro pick 90°, 0.6 mm, 16.5 cm
EG272601	House curette, 17 cm, oval cups, 1.1 x 1.5/1.3 x 1.8 mm
EG276614	Joseph scissors, 14.0 cm, sharp/sharp, curved
EG272200	Helms forceps, pointed, atraumatic 15.0 cm
EG200011	Wullstein retractor, 11.0 cm, 3 x 3 prongs, sharp
EG127002	Hartmann ear forceps, cup 2.0 mm diameter
EG279500	Micro cup-shaped forceps oval, straight

Catalogue No.	Description
EG280500	Micro ear forceps, serrated 0.8 x 4.0 mm, straight
EG278000	Bellucci micro scissors delicate, blades 4.0 mm
EG283003	Dieter malleus nipper, upbiting punch, 8.0 cm
EG285000	McGee wire crimper 0.8 x 3.5 mm
EG269900	Stapes microsurgical gauge

Packing solution

EG299300	Silastic sheeting, blue, 0.125 mm thick
EG70890860	Blu ear packing with drawstring 12.0 x 15.0 mm in hydrated state
EG140320	Rosette packing, width 4.0 mm, thickness 0.13 mm, length 35.0 mm
EG140322	Rosette packing, width 13.0 mm, thickness 0.13 mm, length 35.0 mm

SOUND INNOVATIONS

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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