

OLYMPUS[®]

SOUND
INNOVATIONS

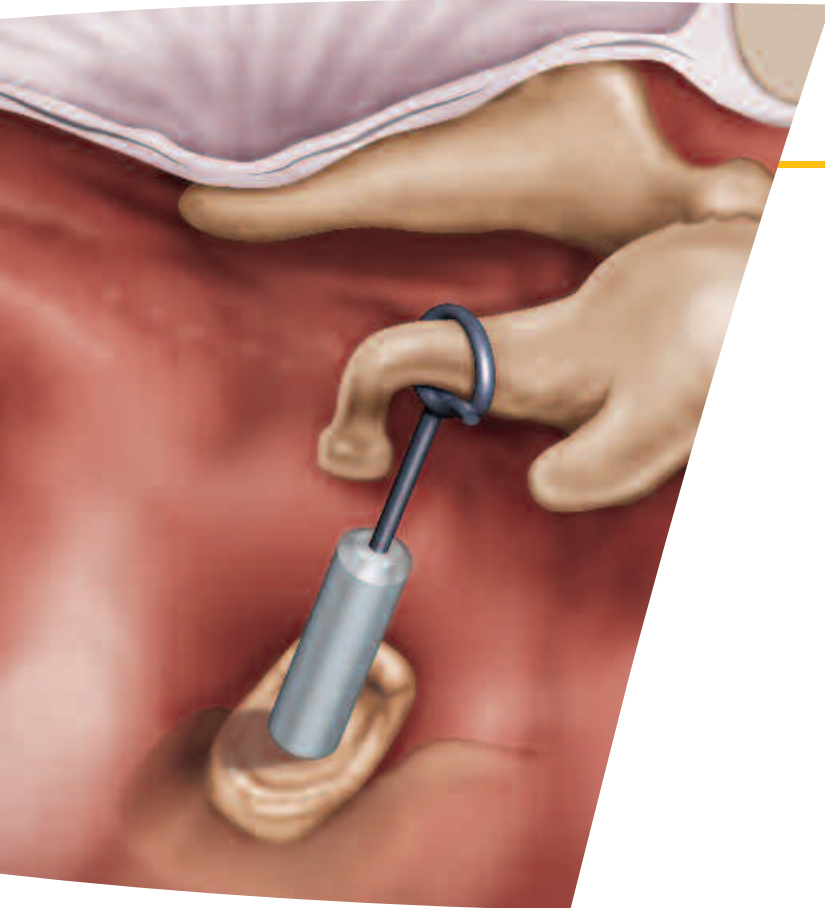


O T O L O G I C S O L U T I O N S

You asked for a complete line of solutions for the Middle Ear...

We Hear You.

For any of your Stapes, Ossicular Chain Reconstruction, and Incudo-Stapedial Joint Discontinuity procedures, there's only one company you can depend on for your needs and the needs of your patients.



Above Image: In Vivo Illustration of SMart 360° Piston (70143645)

STAPES SURGERY SOLUTIONS: SMart® Piston Technology

The reason Stapes surgery is challenging is there is little tolerance for error. Gyrus ENT's 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 maneuver is dramatically simplified.¹
- The SMart 360° Piston is a completely encircling piston containing heat activated Nitinol.
- The SMart 360° Piston has a shape memory property that allows the piston loop to hug the incus circumferentially.
- 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.
- MRI compatible up to 3 Tesla.

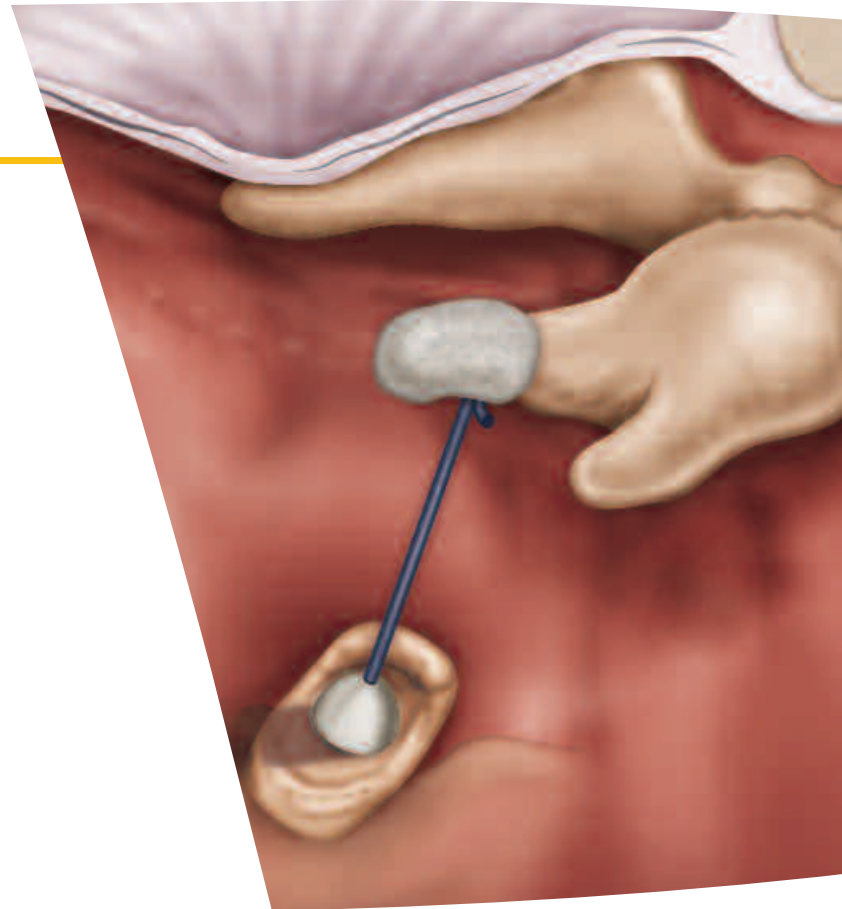
¹ Castleman, L.C., and S.M. Motzkin, "Biocompatibility of Nitinol alloy as an Implant Material," J. Biomed. Mater. Res., 10, 645-732 (1976). Kaperman, A., Ryhanen, J., Danilov, A., "Effect of Nickel-Titanium Shape Memory Alloy on Bone Formation," Biomaterials 22 2475-2480 (2001). Gyrus ENT internal technical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

STAPES SURGERY SOLUTIONS: OtoMimix® Bone Cement

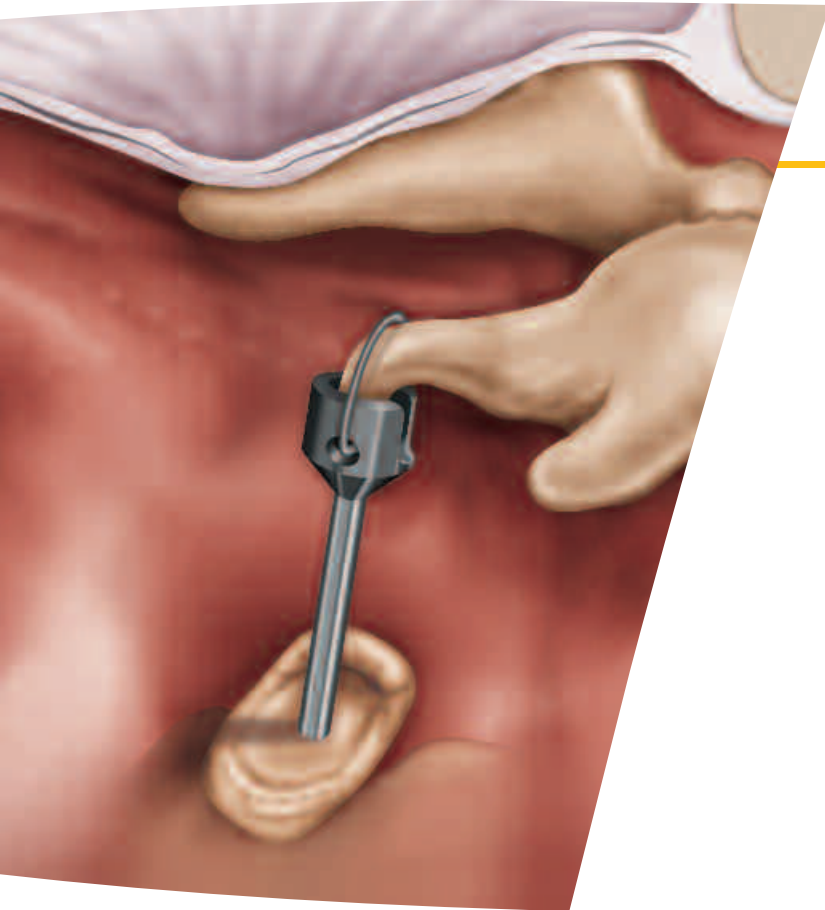
OtoMimix, HA bone cement can be used during revision and primary stapes surgery to keep the prosthesis properly positioned about the vestibule. In revision stapes, OtoMimix extends and connects the piston loop and the distal incus remnant.

- OtoMimix is packaged in a convenient 2 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 will be applied. Typical working time for OtoMimix is 2-4 minutes and it will be hard to the touch after 5-7 minutes.²

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



Above Image: In Vivo Illustration of OtoMimix (70143266)
with SMart De La Cruz Piston (70142057)



STAPES SURGERY SOLUTIONS: Micron® Titanium Bucket Handle

The Classic Bucket Handle is now available in all 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.

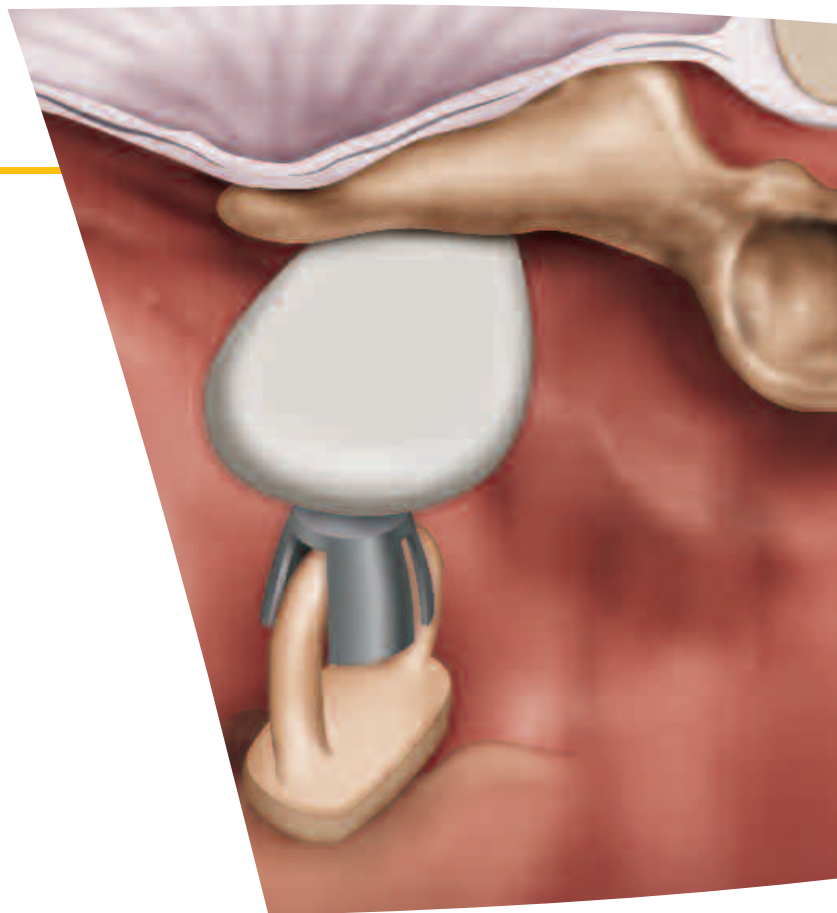
- Titanium is thought to provide excellent sound conduction even at higher frequencies because of its small mass.
- Titanium has excellent handling properties, is well tolerated by tissue and it is MRI compatible up to 3 Tesla.

OCR SURGERY SOLUTIONS: Dornhoffer Implant System

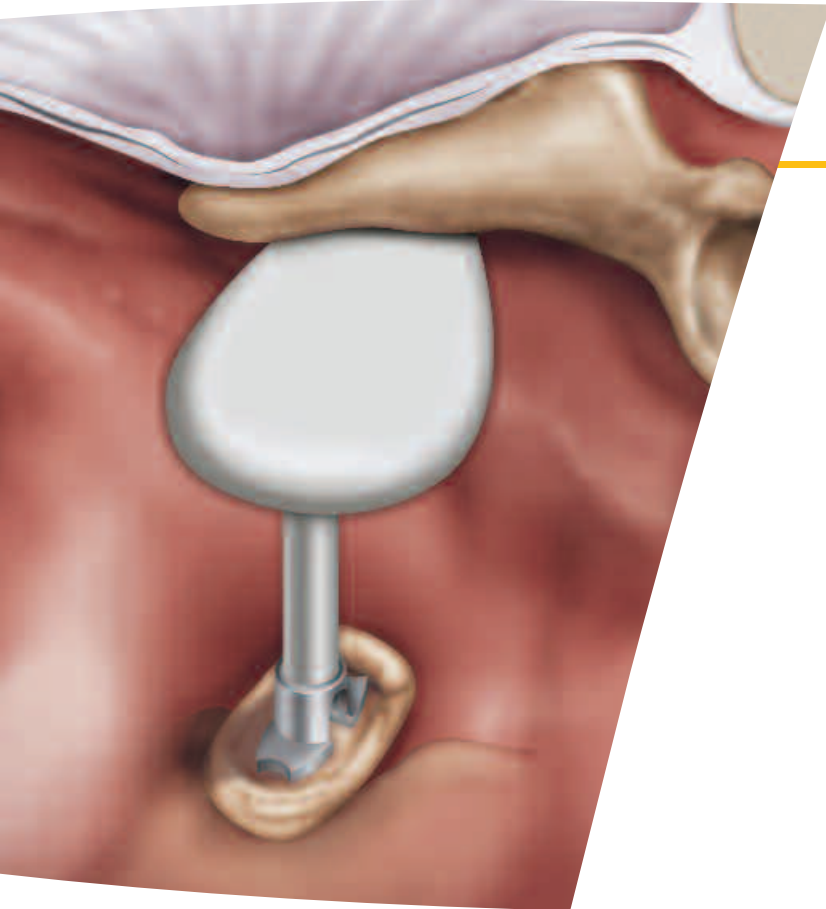
The Dornhoffer Implant System offers three point stability: at the stapes, the malleus, and at the footplate.

- 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 2mm size has been found to fit 95% of all patients.³

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



Above Image: In Vivo Illustration of Dornhoffer Interpositional PORP® (70141014)



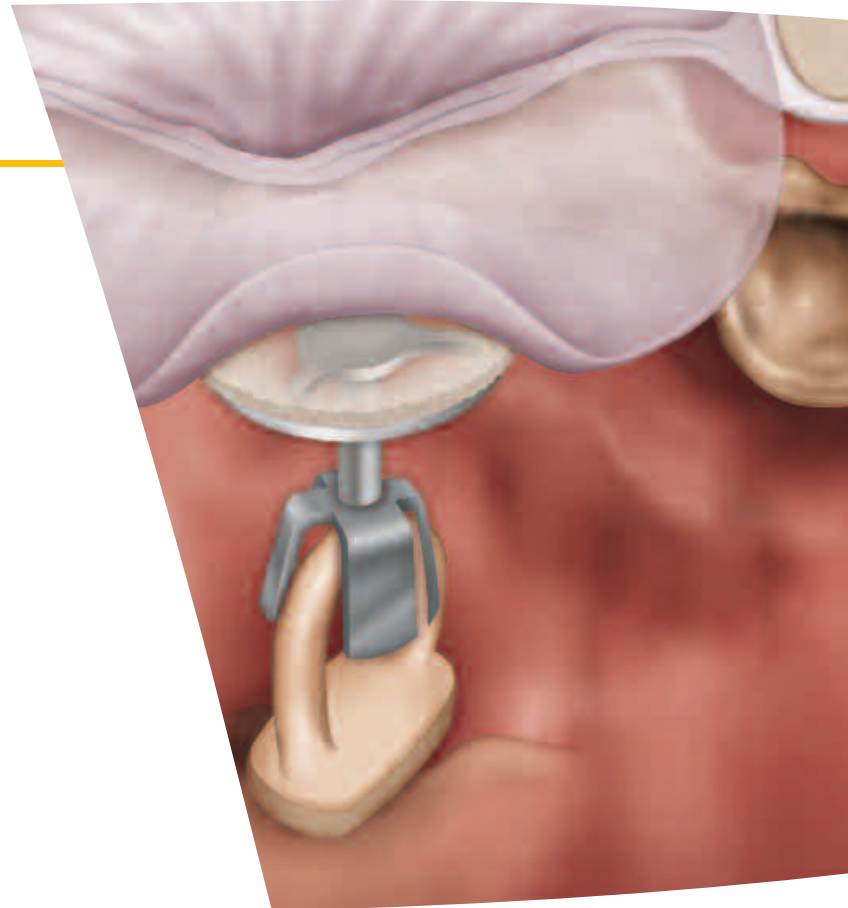
OCR SURGERY SOLUTIONS: Dornhoffer Implant System

- The Dornhoffer Malleable TORP® features an hydroxylapatite head designed with a malleus notch to enhance stability at the malleus.
- For added stability at the footplate, the Dornhoffer Titanium Footplate Shoe is designed for use with 0.8mm TORP shafts made of Hapex, Plasti-Pore and hydroxylapatite.

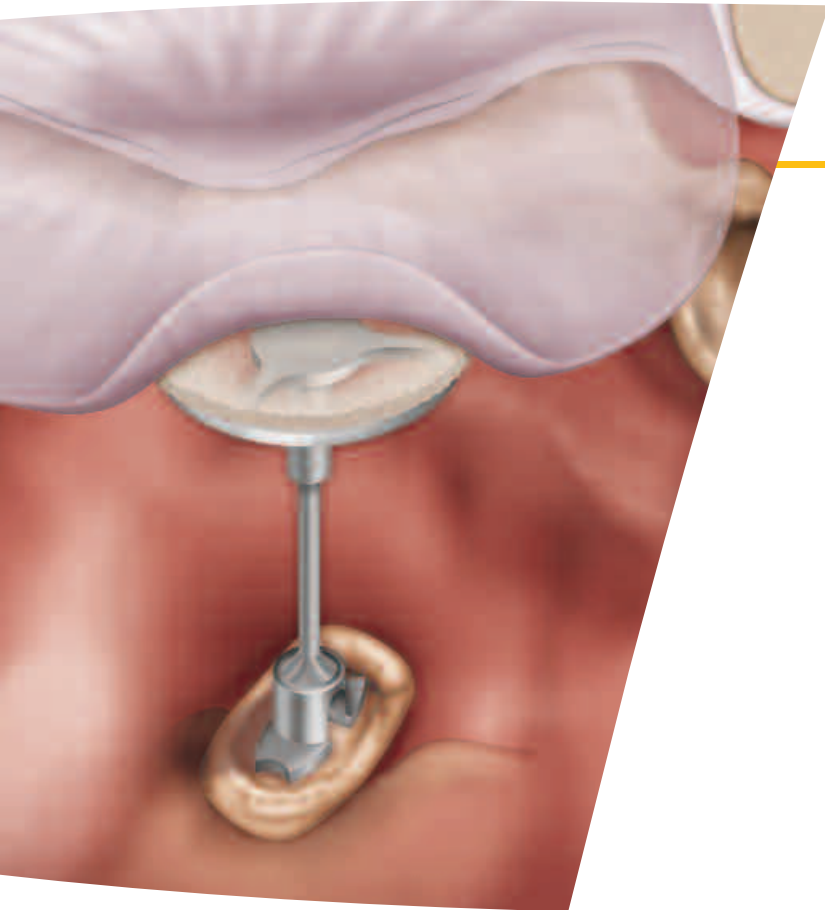
OCR SURGERY SOLUTIONS: Micron® Monolithic Implant System

The Micron All Titanium Monolithic System is available in centered and off-centered orientations to maximize visualization. The open head design is tiltable to facilitate implant placement and handling. Our patented Micron Titanium finish smoothes all surfaces reducing the potential for extrusion due to sharp angles. This proprietary chemical process not only smoothes 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 stapes superstructure and cradles an intact stapedial tendon.



Above Image: In Vivo Illustration of Micron® Titanium Monolithic Centered PORP® (70142004)



OCR SURGERY SOLUTIONS: Micron® Adjustable Implant System

The Micron Adjustable Titanium Implant System provides stability in an all titanium TORP® and PORP.

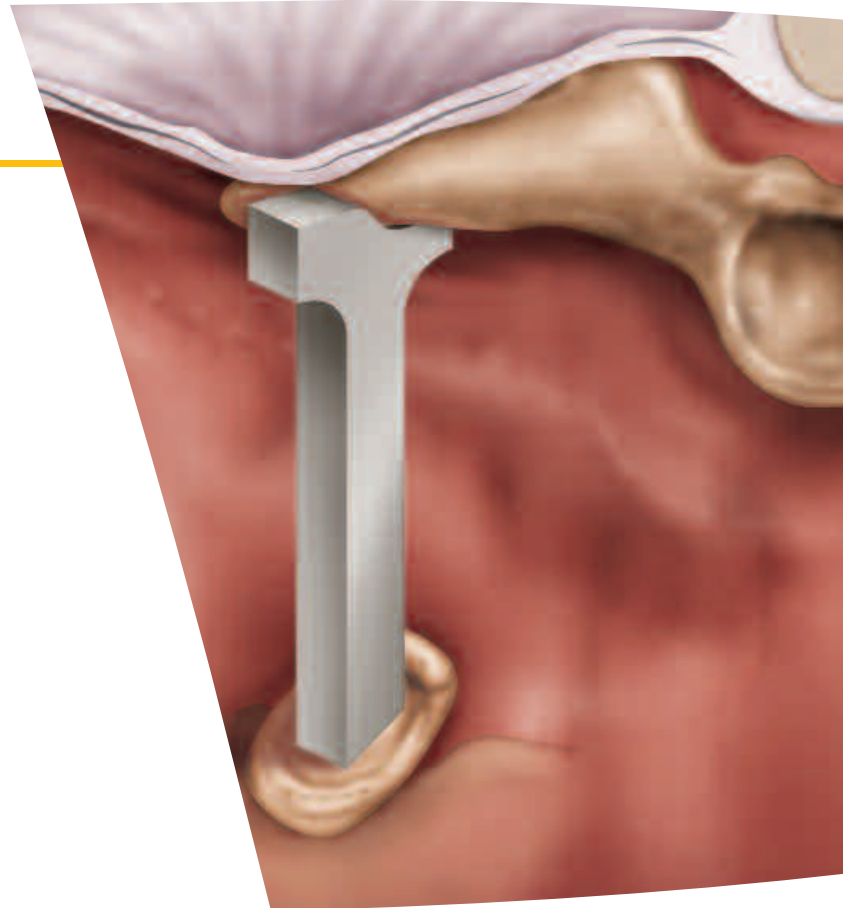
- Sizing at the time of implantation allows for flexibility while requiring minimal stocking units.
- For added stability at the footplate, the Dornhoffer titanium footplate shoe is designed for use with 0.9mm titanium shafted TORPs.

OCR SURGERY SOLUTIONS: 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 visualization.
- The strut prostheses are placed beneath the malleus, which minimizes the possibility of extrusion and locks them in place. When the malleus is absent, the Kartush Strut can be combined with a cartilage cap.

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



Above Image: In Vivo Illustration of Kartush Incus-Stapes Strut (140850)



ISJ SURGERY SOLUTIONS: OtoMimix® Bone Cement

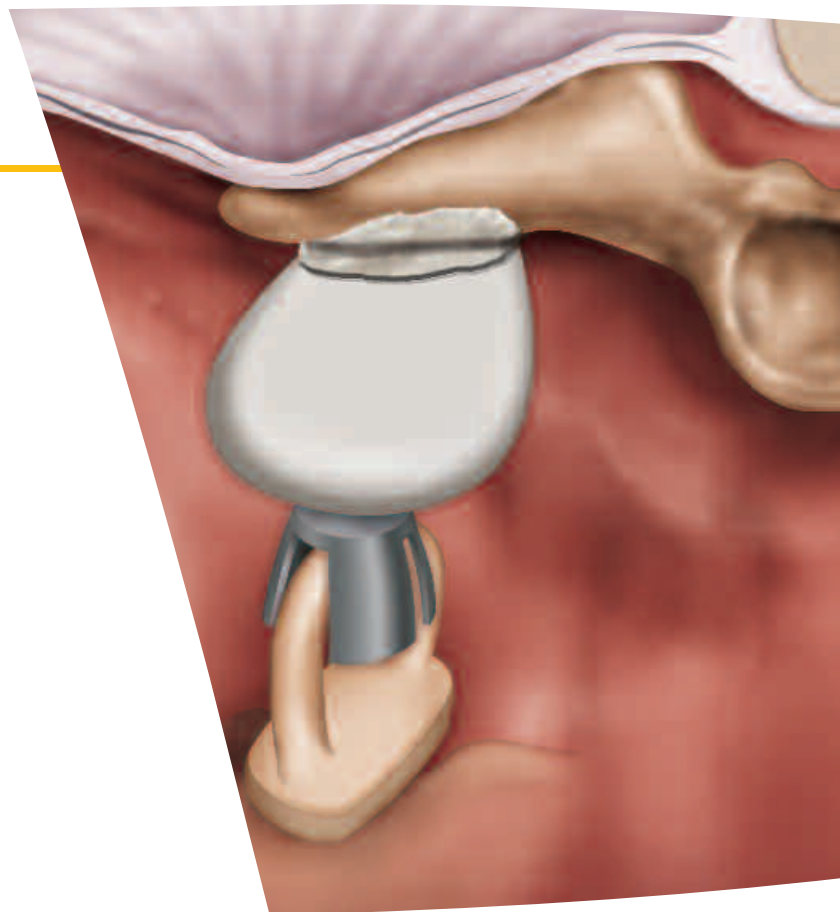
- OtoMimix “Bridges the Gap” for Incudo-Stapedial Joint Discontinuity. OtoMimix, HA bone cement, can be used to reconstruct the conductive component by placing a small aliquot of the cement on the discontinuity.
- OtoMimix is packaged in a convenient 2 gram size and is easily applied using a Rosen needle. A small area of the mucosal layer on the lenticular process of the incus should be removed where OtoMimix will be applied. Typical working time for OtoMimix is 2-4 minutes and it will be hard to the touch after 5-7 minutes.

Above Image: In Vivo Illustration of OtoMimix (70143266)

OCR SURGERY SOLUTIONS: OtoMimix® PORP & TORP

OtoMimix can be used to provide stability at the malleus by connecting the prostheses head to the malleus.

- Hydroxylapatite is one of the most biocompatible material for implant use. Because its chemical composition resembles that of real bone, it is well tolerated by the human body.



Above Image: In Vivo Illustration of OtoMimix (70143266) with Dornhoffer Interpositional PORP (70141014)



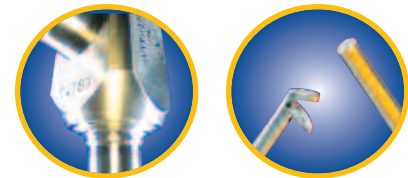
TYMPANOMASTOID SOLUTIONS: Endoscopic Tympanomastoid Set

Gyrus ENT offers an extensive line of hand crafted otology procedure specific instrument sets specializing in Stapes, OCR, and ISJ procedures. We focus on providing precise and dependable instruments for the ENT specialty.

- The Otoendoscope can be an additional tool for cholesteatoma surgery.⁵
- We are proud to offer a superior line of high quality Otoendoscopes and paired instruments for your OCR procedures.

Benefits of Otoendoscopy in Cholesteatoma Surgery

“Analysis using otoendoscopy reduces the incidence of residual cholesteatomas by identifying lesion extensions that are overlooked under otomicroscopy.”⁵



A glass condensing cone at the proximal end of the endoscope guarantees no light loss and optimizes illumination.

⁵Ayache, Stephane et al. Otoendoscopy in Cholesteatoma Surgery of the Middle Ear: What Benefits Can Be Expected? Otolaryngology & Neurotology, 2008; 29 (8): 1085-1090.

MINIMALLY INVASIVE OCR SOLUTIONS: Endoscopic Tympanomastoid Set

ENDOSCOPIC TYMPANOMASTOID SET

<i>Part Number</i>	<i>Description</i>
70235613	Otoviev Ear Scissors
70235611	Otoviev Cupped Forceps, Curved Right
70235610	Otoviev Cupped Forceps, Curved Left
70235612	Otoviev Cupped Forceps, Curved Up
70235620	Otoviev Double Ended Elev "Hockey Stick"
70235621	Otoviev Double Ended Round Knife
70235622	Otoviev Sickle Knife
70235623	Otoviev Triangle Knife
70235254	Teleschi Suct 5FR 40° UP
70235255	Teleschi Suct 5FR 40° DN
70235256	Teleschi Suct 5FR 70° UP
70235257	Teleschi Suct 5FR 70° DN
70235250	Teleschi Suct 3FR 40° UP
70235251	Teleschi Suct 3FR 40° DN
70235252	Teleschi Suct 3FR 70° UP
70235253	Teleschi Suct 3FR 70° DN
235210	Otoviev Scope 2.4MM 0°
235211	Otoviev Scope 2.4MM 30°
235212	Otoviev Scope 2.4MM 70°



FEATURED PRODUCTS

<i>Part Number</i>	<i>Description</i>
70143645	SMart 360° Piston (0.4mm x 5.25mm trimmable)
70143652	SMart 360° Piston (0.5mm x 4.25mm)
70143662	SMart 360° Piston (0.6mm x 4.25mm)
70145927	SMart Piston (0.6mm x 4.25mm)
70142057	SMart De La Cruz Piston (0.6mm x 4.25mm)
70142038	SMart Malleus to Footplate Piston (0.6mm x 6mm)
70142141	The Classic Bucket Handle in Micron Titanium (narrow piston diameter 0.4mm x 4mm large 1mm well diameter)
70141014	Dornhoffer Interpositional PORP
70145843	Dornhoffer Malleable TORP
70143254	Dornhoffer Titanium Footplate Shoe (designed for use with .8mm TORP shafts made of Hapex, Plasti-Pore and HA)
70142004	Micron Titanium Monolithic Centered PORP (tiltable head)
70141045	Micron Titanium Adjustable Centered TORP (2-10mm range and 3mm head diameter)
70143253	Dornhoffer Titanium Footplate Shoe (designed for use with .9mm titanium TORP shafts)
140853	Kartush Incus Strut (short 2.75mm)
140850	Kartush Incus-Stapes Strut (short 0.76mm x 5.3mm)
70143266	OtoMimix (2 gram)
130726	Rosen needle (dull)
235200	Otoendoscope - 1.7mm, 0°
235201	Otoendoscope - 1.7mm, 30°
235210	Otoendoscope - 2.4mm, 0°
235211	Otoendoscope - 2.4mm, 30°
235212	Otoendoscope - 2.4mm, 70°

DISCOUNTED FEATURED PRODUCT BUNDLES:

<i>Part Number</i>	<i>Description</i>
70143267	OtoMimix + Goldenberg PORP
70143268	OtoMimix + Bojrab Universal
70143269	OtoMimix + Goldenberg TORP
70143270	OtoMimix + Dornhoffer Malleable TORP
70143271	OtoMimix + SMart Piston (0.6mm x 4.25mm)
70143272	OtoMimix + SMart Piston (0.6mm x 4.50mm)
70143273	OtoMimix + Kartush Incus Strut (medium 3.90mm)
70143274	OtoMimix + Kartush Incus Strut (short 2.75mm)
70143300	Dornhoffer Malleable TORP + Dornhoffer Titanium Footplate Shoe (designed for use with .8mm TORP shafts)
70143301	Centered Micron Adjustable TORP + Dornhoffer Titanium Footplate Shoe (designed for use with .9mm titanium TORP shafts)
70143302	Off-Centered Micron Adjustable TORP + Dornhoffer Titanium Footplate Shoe (designed for use with .9mm titanium TORP shafts)
70135805	Sizing block for Adjustable Titanium Implant, Ryder needle holder for crimping
70132120	Complete PORP/TORP Trial Set designed for use with Micron Adjustable Titanium Implants

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