

# Passive Middle Ear Implants

## Product Catalog





# Passive Middle Ear Implants from MED-EL

## Connecting What Belongs Together

Our passive middle ear implants in a nutshell: Efficient at transmitting sound—and easy to handle. However, as each of our innovative implants has some unique features, a closer look is definitely worthwhile. As a company completely dedicated to otology and overcoming hearing loss as a barrier to communication and quality of life, we at MED-EL always go one step further.

MED-EL has always been driven by one thing: A passion to help people with hearing loss. That is why we have put all our experience from the fields of ear surgery and hearing rehabilitation into the development of our passive implants. And that is why we are the only company to offer a complete portfolio of implantable hearing solutions. Passive middle ear implants are the latest addition to our range of products. What can they do? Read on to find out more!





#### **For Everyone**

Our implants are available in various designs, lengths and diameters. This way, they not only fit the individual anatomy of each patient, but also your surgical preferences in terms of the type of coupling and design.

#### **Optimal Visibility**

All our tympanoplasty implants have generous recesses in the head plate, through which you can always see the coupling point. We also made intraoperative visibility a priority in our stapesplasty implants: Their slim design allows a full view of the foot plate and the long process of the incus.

#### **Flexible? Definitely!**

To adapt all our implants to the patient's anatomy during surgery, you can bend the shaft of the implant. And with our tympanoplasty implants, you can even bend the head plate. There's no need for special equipment.

#### **In Perfect Balance**

The weight distribution of our implants is very balanced. This makes our prostheses inherently stable, and simplifies general handling and intraoperative placement.

#### **So Delicate, So Strong**

That might sound like a contradiction but it is not. Our prostheses are both low weight and extremely stiff. That is the perfect combination to optimally conduct sound to the oval window and into the inner ear.

#### **Safety First**

Our implants are made out of titanium, and are therefore both highly biocompatible and MRI-conditional up to 7.0 Tesla. That means your patients are ready for the future.

**More Than Just Packaging** The red box, which contains our implants and sizers, is sophisticated and practical. See for yourself!

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# Partial Prostheses

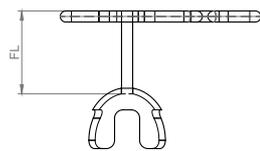
## mXACT Partial Prosthesis

The round coupling structure provides a joint-like connection between the head of the stapes and the implant. In addition, the even weight distribution makes the mXACT Partial Prosthesis stable, which is particularly useful for placement and handling. The head plate and shaft are bendable, giving you the flexibility to adapt the implant to the patient's anatomy during surgery. The generous recesses in the head plate provide complete visibility of the coupling structure.



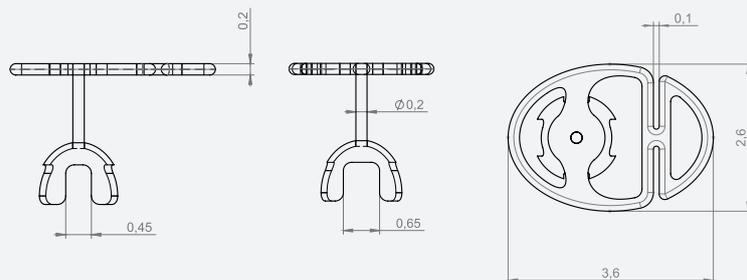
- Articulated connection between the head of the stapes and the implant
- Easy to use
- Intraoperative stability and flexibility
- Complete view of the coupling point

Article number	Functional length (FL) in mm
58033	0.75
58035	1.00
58037	1.25
58039	1.50
58041	1.75
58043	2.00
58045	2.25
58047	2.50
58051	3.00
58053	3.50



### Technical Data

Weight: Approx. 2.5-4.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



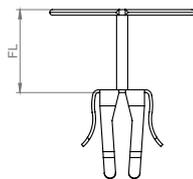
## mCLIP Partial Prosthesis

The clip-coupling structure brings together two important advantages: On the one hand, it ensures a stable placement on the head of the stapes and, on the other hand, it harmonizes contact pressure. The mCLIP offers you intraoperative flexibility through its symmetrical clip design and the bendable head plate and shaft. Thanks to the generous recesses in the head plate, you always have a clear view of the coupling structure and the even weight distribution ensures easy handling.

- Stable placement with harmonized contact pressure
- Intraoperative stability and flexibility
- Complete view of the coupling point
- Easy to use

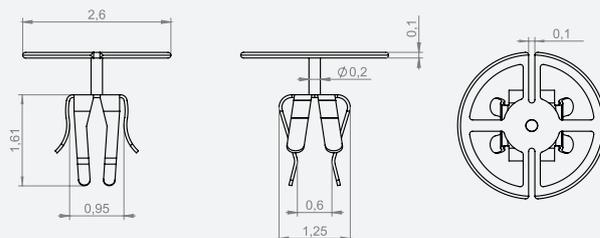


Article number	Functional length (FL) in mm
58111	0.75
58113	1.00
58115	1.25
58117	1.50
58119	1.75
58121	2.00
58123	2.25
58125	2.50
58127	3.00
58129	3.50



### Technical Data

Weight: Approx. 1.4-2.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



## Partial Prostheses Sizer Kit

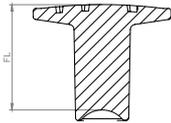
With the Partial Prostheses Sizer Kit for our partial prostheses you can easily measure the distance between the head of the stapes and the eardrum to determine the functional length of the appropriate implant. When calculating the length, consider the graft (e.g. cartilage) that will be placed between the head plate and the eardrum (we recommend a thickness of 0.5 mm). The Partial Prostheses Sizer Kit contains 5 sterile polypropylene sizers of differing lengths. The sizers are arranged lengthwise and are intuitive to use. They are easy to remove from the box.



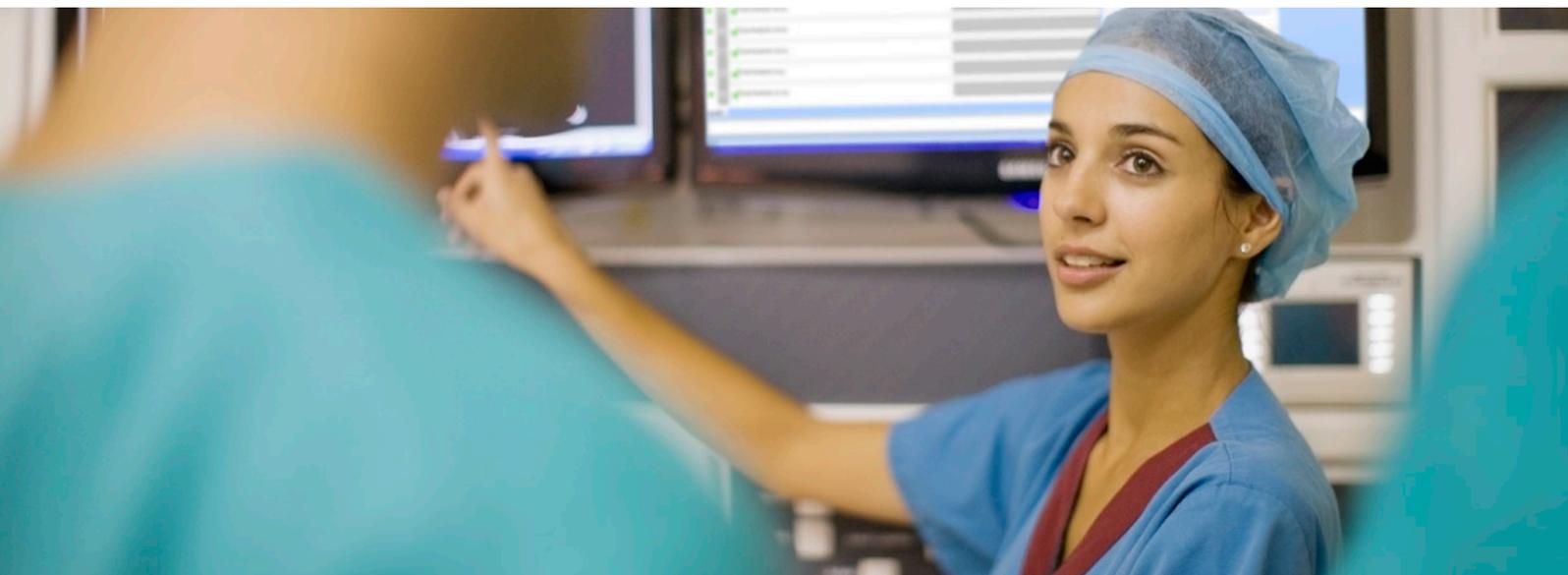
- Easily-removed from the box
- Comfortable handling thanks to balanced geometry
- Clearly visible in the middle ear

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Article number	Functional length (FL) in mm
58379	1.0
	1.5
	2.0
	2.5
	3.5



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# Total Prostheses

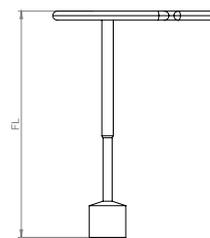
## mXACT Total Prosthesis Offcenter

The mXACT Total Prosthesis's cannulated footing and the resulting adhesion increase the stability of the implant on the stapes foot plate. The cylindrical shaft is reinforced near the head plate ( $\varnothing 0.25$  mm) to prevent unintentional bending. In the coupling structure, on the other hand, the shaft becomes thinner ( $\varnothing 0.2$  mm), providing a defined bending range. The head plate and shaft of the mXACT Total Prosthesis are just as bendable as our other tympanoplasty prostheses, and the head plate has recesses for a good view of the stapes. Like our other tympanoplasty prostheses, the head plate and shaft of the mXACT Total Prosthesis are bendable, and the head plate has recesses for a good view of the stapes.



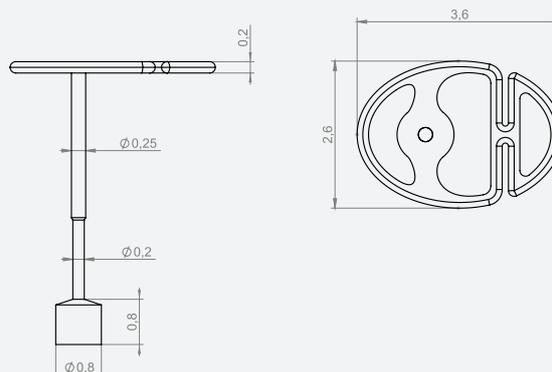
- Stable placement on the stapes footplate
- Optimized shaft with 2 diameters
- Intraoperative flexibility and complete visibility of the coupling structure
- Easy to use

Article number	Functional length (FL) in mm	Article number	Functional length (FL) in mm
58055	3.00	58069	4.75
58057	3.25	58071	5.00
58059	3.50	58075	5.50
58061	3.75	58077	6.00
58063	4.00	58079	6.50
58065	4.25	58081	7.00
58067	4.50		



### Technical Data

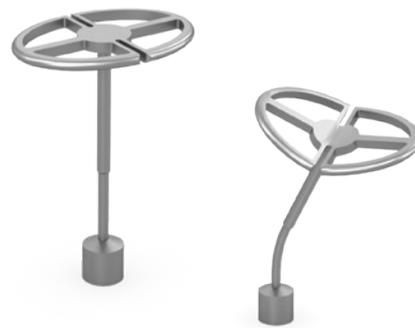
Weight: Approx. 4.0-5.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



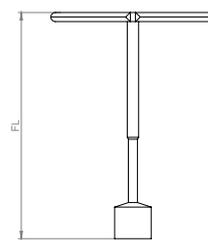
# mXACT Total Prosthesis Center

The center-aligned mXACT total prosthesis offers the same advantages and features as its off-center counterpart. Depending on the patient's anatomy and your preferences, both variants are available for complete ossicular reconstruction.

- Stable placement on the stapes foot plate
- Optimized shaft with 2 diameters
- Intraoperative flexibility and complete visibility of the coupling structure
- Easy to use

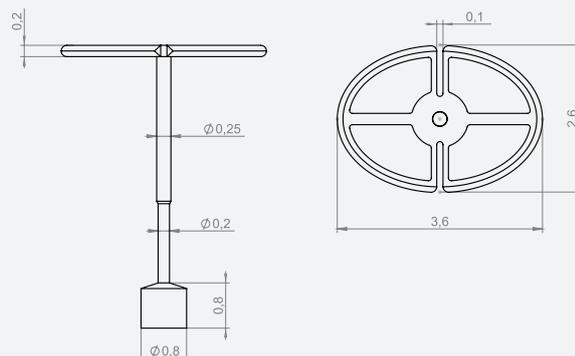


Article number	Functional length (FL) in mm	Article number	Functional length (FL) in mm
58083	3.00	58097	4.75
58085	3.25	58099	5.00
58087	3.50	58103	5.50
58089	3.75	58105	6.00
58091	4.00	58107	6.50
58093	4.25	58109	7.00
58095	4.50		



## Technical Data

Weight: Approx. 3.5-4.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



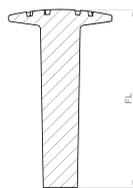
## Total Prostheses Sizer Kit

The Total Prostheses Sizer Kit for our total prostheses makes it easy to measure the distance between the stapes footplate and the eardrum, and thus determine the functional length of the appropriate implant. When calculating the length, consider the graft (e.g. cartilage) that will be placed between the head plate and the eardrum (we recommend a thickness of 0.5 mm). The Total Prostheses Sizer Kit contains 7 different lengths of sterile polypropylene sizers. The sizers are arranged lengthwise and are intuitive to use. They are easy to remove from the box.

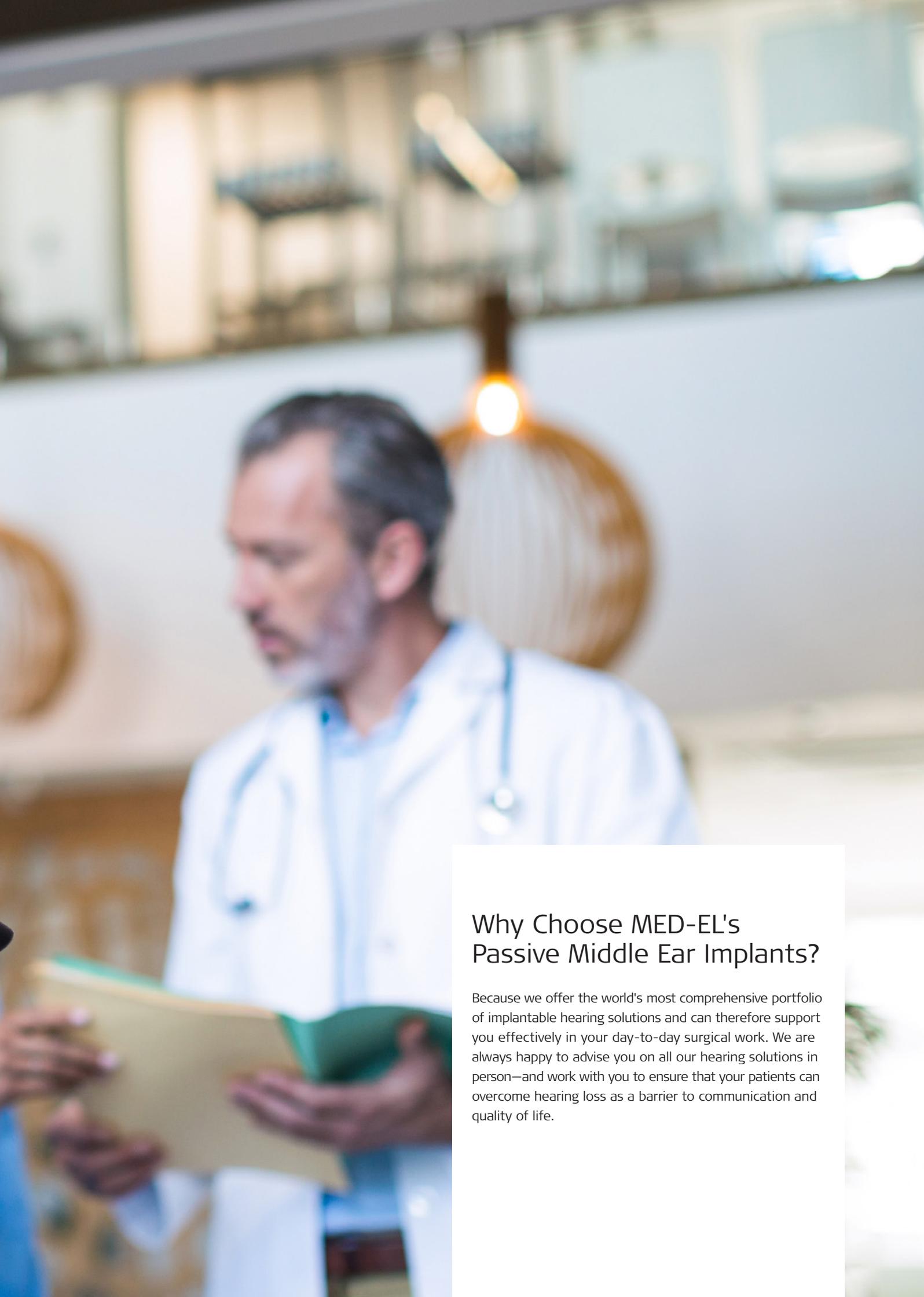
- Easily-removed from the box
- Comfortable handling thanks to balanced geometry
- Clearly visible in the middle ear



Article number	Functional length (FL) in mm
58380	3.0
	3.5
	4.0
	4.5
	5.0
	6.0
	7.0







## Why Choose MED-EL's Passive Middle Ear Implants?

Because we offer the world's most comprehensive portfolio of implantable hearing solutions and can therefore support you effectively in your day-to-day surgical work. We are always happy to advise you on all our hearing solutions in person—and work with you to ensure that your patients can overcome hearing loss as a barrier to communication and quality of life.



# Stapes Prosthesis

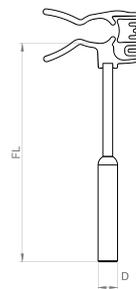
## mFIX Stapes Prosthesis

The mFIX Stapes Prosthesis clip has several advantages: Its design is space-saving, which means there is enough room between the implant and the posterior auditory canal wall. It is also easy to slide onto the incus, without the need for crimping. The mFIX also offers intraoperative flexibility with its bendable shaft, a smooth transition between the piston and shaft, and even weight distribution for both stability and easy handling.

- Crimp-free coupling with clip.
- Space-saving clip design
- Intraoperative flexibility and clear view of the stapes
- Easy to use

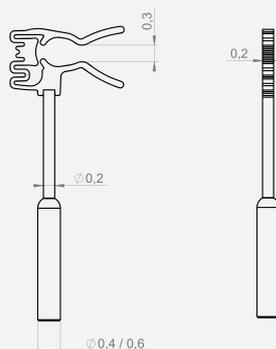


Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm
58273	Ø 0.4 x 3.50	58309	Ø 0.6 x 3.50
58275	Ø 0.4 x 3.75	58311	Ø 0.6 x 3.75
58277	Ø 0.4 x 4.00	58313	Ø 0.6 x 4.00
58279	Ø 0.4 x 4.25	58315	Ø 0.6 x 4.25
58281	Ø 0.4 x 4.50	58317	Ø 0.6 x 4.50
58283	Ø 0.4 x 4.75	58319	Ø 0.6 x 4.75
58285	Ø 0.4 x 5.00	58321	Ø 0.6 x 5.00
58287	Ø 0.4 x 5.25	58323	Ø 0.6 x 5.25
58289	Ø 0.4 x 5.50	58325	Ø 0.6 x 5.50



### Technical Data

Weight: Approx. 1.5-3.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2 and  
 Titanium ASTM F136 Medical Grade 5



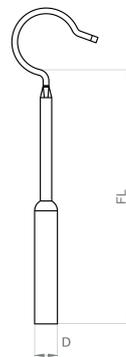
## mLOOP Stapes Prosthesis

The mLOOP is available in lengths of up to 10 mm and is therefore ideal for attaching to both the incus and the malleus. The mLOOP also offers intraoperative flexibility with its offset band loop and bendable shaft as well as smooth transition between the piston and shaft. The balanced weight distribution means both stability and easy handling.

- Implant lengths of up to 10 mm
- Intraoperative flexibility and clear view of the stapes
- Easy to use

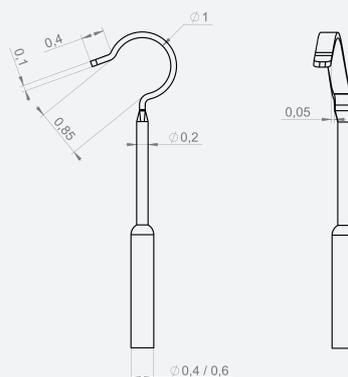


Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm
58183	Ø 0.4 x 3.50	58219	Ø 0.6 x 3.50
58185	Ø 0.4 x 3.75	58221	Ø 0.6 x 3.75
58187	Ø 0.4 x 4.00	58223	Ø 0.6 x 4.00
58189	Ø 0.4 x 4.25	58225	Ø 0.6 x 4.25
58191	Ø 0.4 x 4.50	58227	Ø 0.6 x 4.50
58193	Ø 0.4 x 4.75	58229	Ø 0.6 x 4.75
58195	Ø 0.4 x 5.00	58231	Ø 0.6 x 5.00
58197	Ø 0.4 x 5.25	58233	Ø 0.6 x 5.25
58199	Ø 0.4 x 5.50	58235	Ø 0.6 x 5.50
58433	Ø 0.4 x 6.00	58443	Ø 0.6 x 6.00
58435	Ø 0.4 x 7.00	58445	Ø 0.6 x 7.00
58437	Ø 0.4 x 8.00	58447	Ø 0.6 x 8.00
58439	Ø 0.4 x 9.00	58449	Ø 0.6 x 9.00
58441	Ø 0.4 x 10.00	58451	Ø 0.6 x 10.00



### Technical Data

Weight: Approx. 1.0-4.0 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



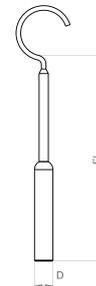
# mZAM Stapes Prosthesis

With its extremely slim design, the mZAM Stapes Prosthesis allows you the best possible view when placing the implant. It also offers intraoperative flexibility with its offset band loop and bendable shaft as well as smooth transition between the piston and shaft. The balanced weight distribution means both stability and easy handling.

- Best possible view of the stapes footplate
- Intraoperative flexibility
- Easy to use

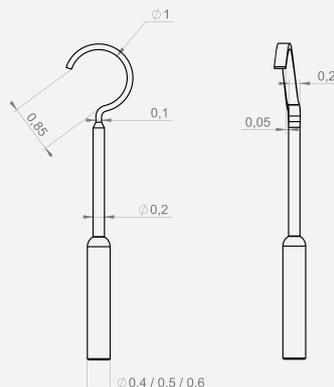


Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm
58237	Ø 0.4 x 3.50	58453	Ø 0.5 x 3.50	58255	Ø 0.6 x 3.50
58239	Ø 0.4 x 3.75	58455	Ø 0.5 x 3.75	58257	Ø 0.6 x 3.75
58241	Ø 0.4 x 4.00	58457	Ø 0.5 x 4.00	58259	Ø 0.6 x 4.00
58243	Ø 0.4 x 4.25	58459	Ø 0.5 x 4.25	58261	Ø 0.6 x 4.25
58245	Ø 0.4 x 4.50	58461	Ø 0.5 x 4.50	58263	Ø 0.6 x 4.50
58247	Ø 0.4 x 4.75	58463	Ø 0.5 x 4.75	58265	Ø 0.6 x 4.75
58249	Ø 0.4 x 5.00	58465	Ø 0.5 x 5.00	58267	Ø 0.6 x 5.00
58251	Ø 0.4 x 5.25	58467	Ø 0.5 x 5.25	58269	Ø 0.6 x 5.25
58253	Ø 0.4 x 5.50	58469	Ø 0.5 x 5.50	58271	Ø 0.6 x 5.50



## Technical Data

Weight: Approx. 1.0-3.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2



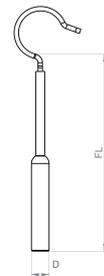
# mAXIS Stapes Prosthesis

Compared to our other stapes prostheses, the loop of the mAXIS is wider, which reduces pressure on the incus. At the same time, perforations ensure gentle crimping. The mAXIS also offers intraoperative flexibility with its offset strap loop and bendable shaft, smooth transition between the piston and shaft and even weight distribution for both stability and easy handling.

- Reduced pressure on the incus and gentle crimping
- Intraoperative flexibility with clear view of the stapes
- Easy to use

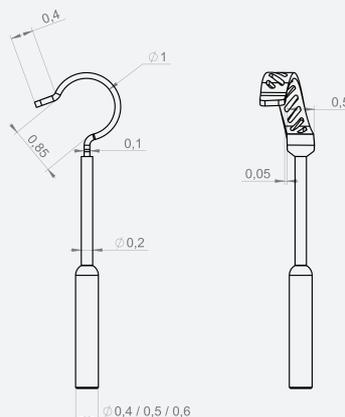


Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm	Article number	Piston diameter (D) x functional length (FL) in mm
58131	Ø 0.4 x 3.50	58149	Ø 0.5 x 3.50	58165	Ø 0.6 x 3.50
58133	Ø 0.4 x 3.75	58416	Ø 0.5 x 3.75	58167	Ø 0.6 x 3.75
58135	Ø 0.4 x 4.00	58151	Ø 0.5 x 4.00	58169	Ø 0.6 x 4.00
58137	Ø 0.4 x 4.25	58153	Ø 0.5 x 4.25	58171	Ø 0.6 x 4.25
58139	Ø 0.4 x 4.50	58155	Ø 0.5 x 4.50	58173	Ø 0.6 x 4.50
58141	Ø 0.4 x 4.75	58157	Ø 0.5 x 4.75	58175	Ø 0.6 x 4.75
58143	Ø 0.4 x 5.00	58159	Ø 0.5 x 5.00	58177	Ø 0.6 x 5.00
58145	Ø 0.4 x 5.25	58161	Ø 0.5 x 5.25	58179	Ø 0.6 x 5.25
58147	Ø 0.4 x 5.50	58163	Ø 0.5 x 5.50	58181	Ø 0.6 x 5.50



## Technical Data

Weight: Approx. 1.0-3.5 mg, depending on length  
 MRI-conditional up to 7.0 Tesla  
 Material: Titanium ASTM F67 Medical Grade 2







## Get In Touch

### Where to Order

To order our passive middle ear implants, please contact your local MED-EL representative. Let us know if you have any questions—we look forward to hearing from you!



[medel.com](http://medel.com)



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