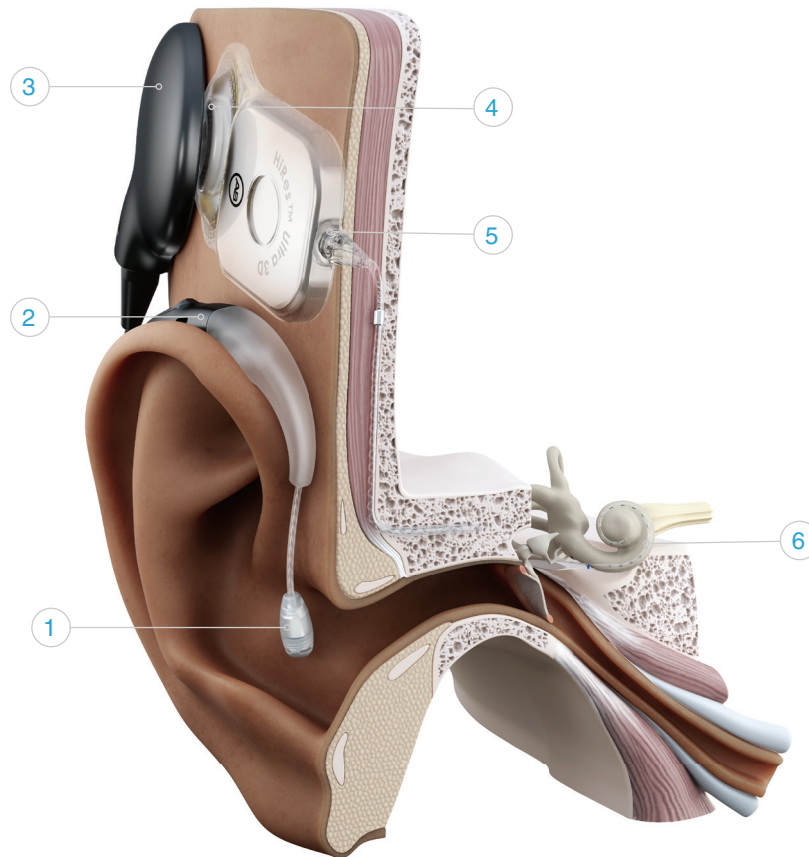


What Is a Cochlear Implant?



A cochlear implant system restores hearing by sending sound signals directly to the hearing nerve.



As sister companies, Phonak and Advanced Bionics offer the widest range of solutions to help each patient overcome their unique hearing challenges, and fully connect to the life they love.

To learn more, connect with us at <https://l.ead.me/tobetterhearing> or scan here.



1. MICROPHONE

Our cochlear implant system captures sound with one or more microphones, helping you hear the full range of sound. Even as low as a whisper!

2. SOUND PROCESSOR

With the only CI strategy recognized by the FDA to improve hearing in noise,¹ our sound processors filter sound signals to make hearing easier.

3. HEADPIECE

The headpiece sends the sound signal from the sound processor to the implant underneath the skin. It is designed to be lightweight and comfortable.

4. MAGNET

Our multi-magnet assembly connects the headpiece to the implant. If you need an MRI in the future, no worries, our HiRes Ultra 3D magnet assembly makes MRIs hassle free!

5. IMPLANT

While new sound processors are routinely released, the implant is made to stay. With the most performance focused implant on the market, you can rest at ease knowing our implant is ready for the future.

6. ELECTRODE ARRAY

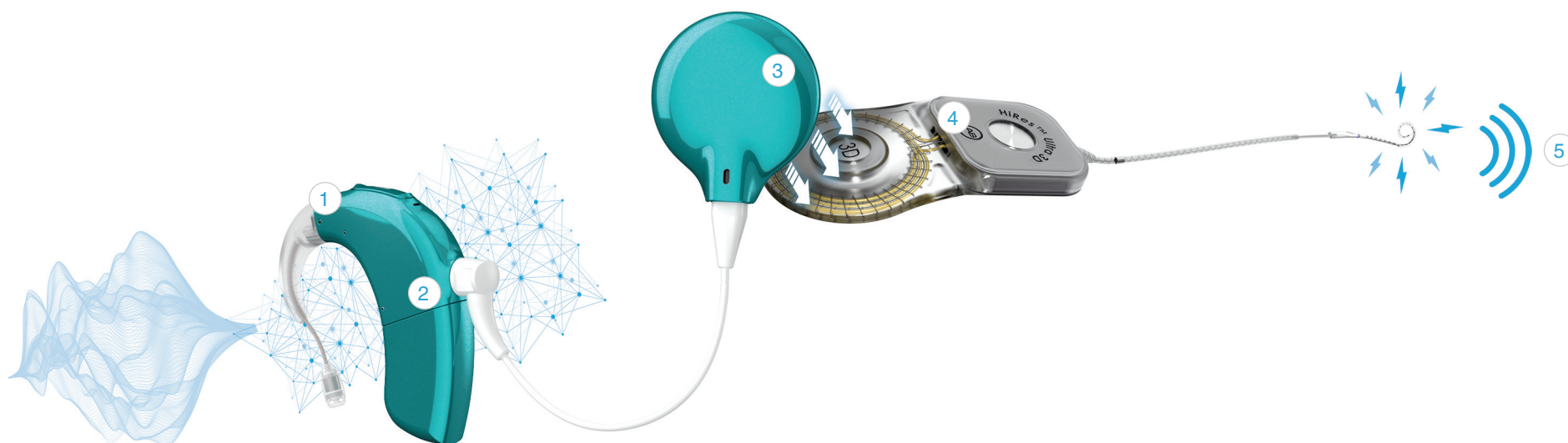
Designed to be placed in the inner ear,² our electrode array sends filtered sound signals to help you understand speech and enjoy music.³

1. Koch DB, Osberger MJ, Segel P, Kessler DK. (2004) HiResolution and conventional sound processing in the HiResolution Bionic Ear: using appropriate outcome measures to assess speech-recognition ability. *Audiology and Neurotology*, 9:214-223.
2. Lenarz T, Prenzler N, Salcher R, Andreas Buechner A. (2017) First experience with a new thin lateral electrode array. *American Cochlear Implant Alliance*, San Francisco, July 26-29, 2017.
3. Osberger MJ, Quick A, Arnold L, Boyle P. (2010) Music benefits with HiRes Fidelity 120 sound processing. *Cochlear Implants International* 11(S1): 351-354.

How Does a Cochlear Implant Work?



A cochlear implant system restores hearing by sending sound signals directly to the hearing nerve.



1

The microphones capture sound waves that pass through the air.

2

The sound waves are converted into detailed digital information by the sound processor.

3

The magnetic headpiece sends the digital signals to the implant.

4

The implant takes the digital signal and directs the electrode array to send a signal to the hearing nerve.

5

The hearing nerve sends impulses to the brain, where they are interpreted as sound.

As sister companies, Phonak and Advanced Bionics offer the widest range of solutions to help each patient overcome their unique hearing challenges, and fully connect to the life they love.

To learn more, connect with us at <https://l.ead.me/tobetterhearing> or scan here.

