

OTICON | **Dynamo**

Get the best of both worlds



Bimodal fitting
made easy!



oticon
PEOPLE FIRST

Dynamo is an ideal partner for ANY cochlear implant

Supporting the transition to combined technologies

It can be challenging to find the right balance when you fit a hearing aid to support a cochlear implant. In a bimodal fitting, one ear is stimulated electrically and the other acoustically. These two different types of stimulation require a flexible fitting approach.

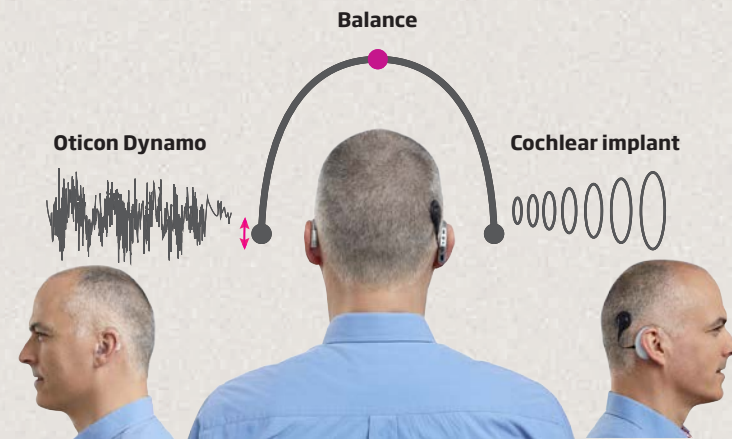
Oticon Dynamo is a state-of-the-art Super Power hearing aid for users with a severe-to-profound hearing loss. It takes hearing to a whole new level by applying our innovative BrainHearing™ technologies that give the brain what it needs to make sense of sound.

Moreover, Oticon Dynamo is an ideal hearing aid for bimodal fittings. With a flexible fitting platform Dynamo can be easily programmed to complement ANY cochlear implant. Oticon Dynamo's personalized fitting tool, YouMatic, allows you to offer a listening experience customised to your patient's personal sound preferences. This approach can improve your patient's level of satisfaction and his or her acceptance of a hearing device.¹

To support you in a bimodal fitting, Oticon provides clinically validated guidelines and tools in the fitting software to perform a quick and easy bimodal fitting. Oticon Dynamo's tailor-made fitting approach can now also benefit bimodal patients allowing you to meet individual user preferences by balancing acoustic stimulation with electrical stimulation.

Who will benefit?

More and more patients are choosing to be fitted with a CI and many of them wear a hearing aid in the non-implanted ear to get the most out of their residual hearing. All patients with residual hearing in the non-implanted ear can be considered bimodal candidates.²



Developed by experts at Boys Town National Research Hospital

Oticon's Genie fitting software now features a simple flowchart to guide you in programming a hearing aid to work with a CI, as well as a fitting panel that allows you to perform a quick and easy bimodal fitting.

The bimodal flowchart in Genie is developed by experts at Boys Town National Research Hospital and combines the very latest research with a practical clinical approach. With a few simple steps, the flowchart guides you through balancing loudness and shaping the frequency response. The aim is to provide your patient with the best possible acoustic settings in Dynamo when fitting an implanted patient.

The bimodal fitting flowchart considers the following fitting approaches, all of which incorporate Loudness Balancing:

- Wideband fitting
- Use of frequency lowering
- Restricted bandwidth fitting



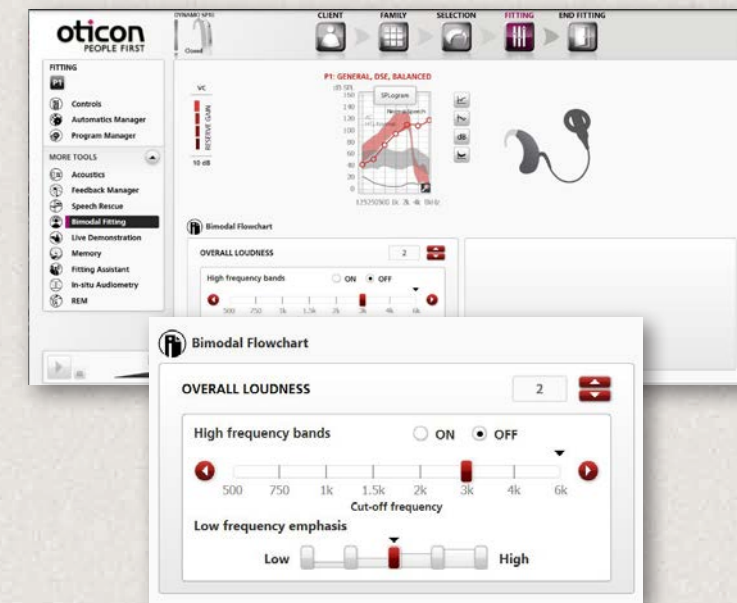
Easy fitting tools for a better match

Manage your bimodal fittings with confidence

The new fitting panel in Oticon Genie enables you to precisely meet the needs and preferences of your patients by offering dedicated handles to easily follow any recommended fitting approach. The handles allow you to quickly and easily implement fine tuning suggestions from the bimodal fitting flowchart and are accessible in the two complementary tools: **Bimodal Fitting** and **Speech Rescue**.

The unique **Bimodal Fitting tool** features an invaluable "overall loudness" trimmer for loudness balancing and a set of handles to efficiently perform restricted bandwidth fitting and adjust "low frequency emphasis".

The **Speech Rescue Fitting tool** allows you to optimise frequency lowering to ensure audibility of high frequency sounds in a wideband or restricted bandwidth fitting. Used together, these tools support you in optimally fitting Oticon Dynamo to best complement the implanted ear.



The new bimodal fitting panel in Oticon Genie presents different trimmers available for fine tuning Dynamo or Sensei SP.



Giving kids the best start in life

Bilateral auditory stimulation is proven to be exceptionally important to all children, whether it is bimodal stimulation or not. For children with severe to profound hearing loss, bimodal fitting early in life has been shown to improve language acquisition. Acoustic and electric stimulation combined can potentially benefit children in their musical, speech and language development and thus affect the child's future academic and social success.³

Our new bimodal fitting flowchart and tools can also be used with our Sensei Super Power paediatric hearing aids, opening up the world of bimodal benefits for children too.

Sensei Super Power gives the child more speech details than ever before, helping the child perceive speech more clearly to support language development. With Oticon's BrainHearing™ technology, the child's brain is supported in making sense of speech sounds to improve speech understanding.



How can your patients benefit from improved bimodal hearing?

Optimised bimodal hearing maximises the effectiveness of a CI while unlocking the full potential of a supporting hearing aid in the non-implanted ear.

Key benefits of bimodal hearing include:

- Optimised sound and music experience with both acoustic and electric stimulation^{4a,b}
- Higher quality of life in social activities⁵
- Improved ability to hear speech in noise⁶
- Better sound localisation skills⁷
- Greater ease of listening⁸



References

1. Grenness C, Hickson L, Laplante-Lévesque A, Davidson B (2014) Patient-centred care: A review for rehabilitative audiologists. *International Journal of Audiology* 52:1-8.
2. Offeciers E, Morera C, Müller J, Huarte A, Shallop J & Cavallé L (2005). International consensus on bilateral cochlear implants and bimodal stimulation. *Acta Otolaryngologica*, 25(9):918-9.
3. Nittrouer & Chapman (2009) "The effects of bilateral electric and bimodal electric-acoustic stimulation on language development". *Trends Amplif. Sep*;13(3).
- 4a. Sammeth et al. (2011). Bimodal Hearing or Bilateral Cochlear Implants: A Review of the Research Literature. *Semin Hear*, 32(01), 003-031.
- 4b. Ching et al. (2007). Binaural-bimodal fitting or bilateral implantation for managing severe to profound deafness: a review. *Trends Amplif*, 11(3), 161-192.
5. Farinetti et al. (2014). Quality of life in bimodal hearing users (unilateral cochlear implants and contralateral hearing aids). *Eur Arch Otorhinolaryngol*. Nov 6.
6. Schafer et al. (2011). A meta-analysis to compare speech recognition in noise with bilateral cochlear implants and bimodal stimulation. *Int J Audiol*, 50(12), 871-880.
7. Potts et al. (2009). Recognition and localization of speech by adult cochlear implant recipients wearing a digital hearing aid in the non-implanted ear (bimodal hearing). *J Am Acad Audiol*, 20(6), 353-373.
8. Ching TYC, Incerti P & Hill M (2004). Binaural Benefits for Adults Who Use Hearing Aids and Cochlear Implants in Opposite Ears. *Ear & Hearing*, 25(1):9-21.



oticon.global

oticon
PEOPLE FIRST