



"I often play electronic games with a friend on my PlayStation, and the Streamer lets me use the sound processor as a headset. It works virtually perfectly."
James, conductive hearing loss

Reuben's mother Louise:
"Within 24 hours he did not need any pain relief, and the following day we were in the park and he was playing around on the zip wires."
Reuben, single-sided deafness



Because sound matters

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the magical world of sound to people at every stage of life. As a member of one of the world's largest groups of hearing healthcare companies, we share a close link with Oticon and direct access to the latest advancements in hearing research and technologies. Our competencies span more than a century of innovations in sound processing and decades of pioneering experience in hearing implant technology.

By working collaboratively with patients, physicians and hearing care professionals, we ensure that every solution we create is designed with user needs in mind. We share an unwavering commitment to provide innovative solutions and support that enhance quality of life for people wherever life may take them. Because we know how much sound matters.



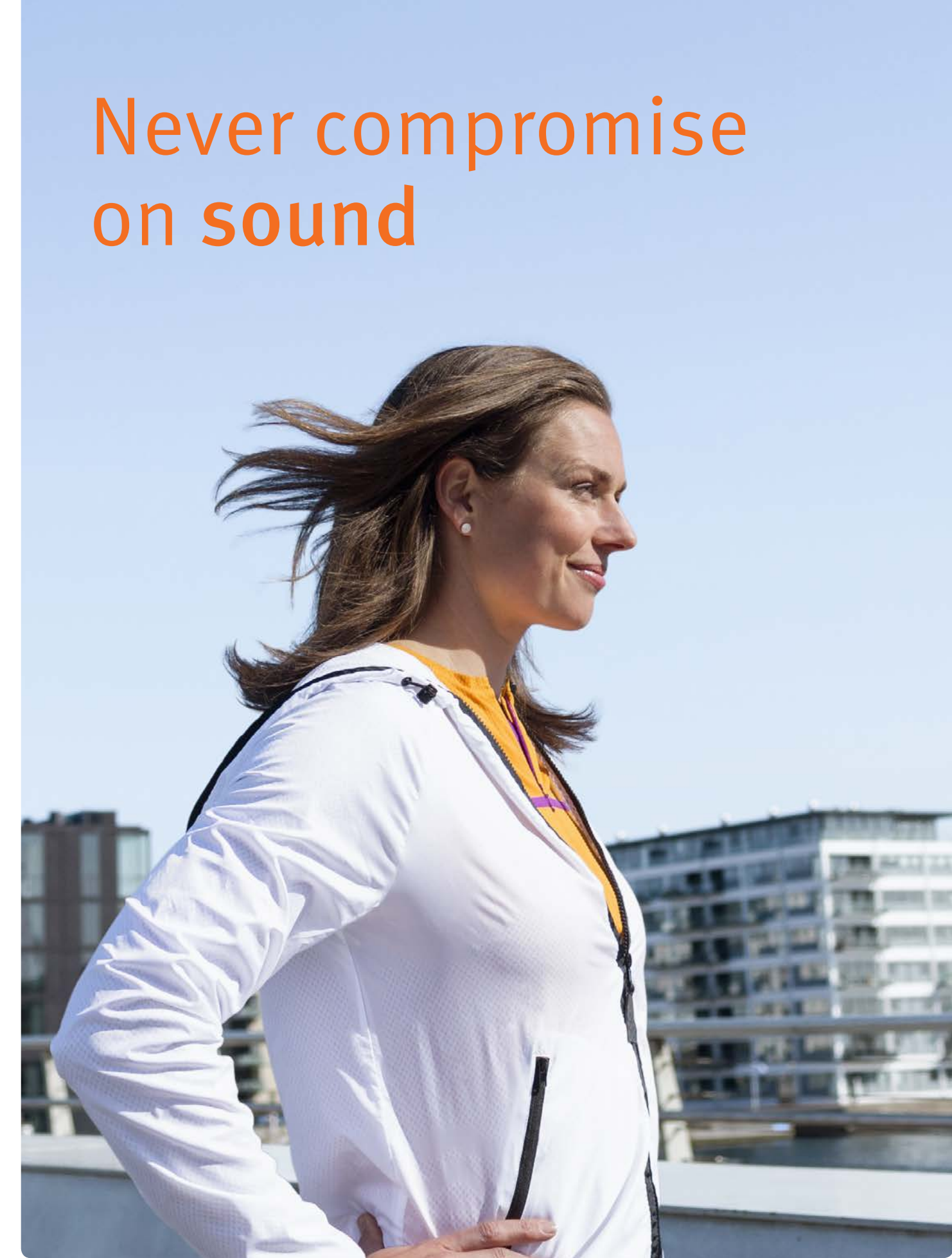
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BONE ANCHORED HEARING SYSTEM

Everyone deserves the best sound quality

Choose Sound. Choose Ponto



Never compromise on sound

The Ponto™ System

Never compromise on sound

In 2009, the launch of the Ponto System revolutionized bone anchored hearing solutions. We have taken our passion for hearing to improve users’ experience by bringing innovative surgical solutions and the latest technology in sound processing to the bone anchored field. Committed to providing the most efficient method of sound transmission by using a direct connection to the bone, we deliver a premium sound quality for which the Ponto System is renowned.

Suture-free surgery – no scarring

Further minimizing post-op complications.

Improved cosmetics

No scar formation around site.

Direct Sound Transmission

No skin attenuation.

Powerful hearing performance

Maximizing output in mid to high frequencies.

Wireless freedom

Combining wireless opportunities with power.

“I could not believe the difference, I can now block my good ear and hear clearly just listening through the bone anchored hearing system. The Streamer that came with it with the FM system is just outstanding. I put it on in the morning and I forget it is there. The head shadow problem of SSD and the problems it brings are a thing of the past.”
Chris, single-sided deafness

“It opened up another world for me.”
Aly, Mixed/conductive hearing loss

“The healing was incredible. Very little discomfort, very little pain, no mess, mint, absolutely brilliant.”
Steve, single-sided deafness

“I am not a crier, but when I put the Ponto on I almost started crying. I could hear; it was clear. There was no feedback, no buzzing. Then, they turned on the Streamer and hooked it up with my phone. I have not looked back since.”
Nancy, single-sided deafness

References

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2. Westerkuhl P, Jinton L, “The new wide Ponto implant design – clinical and surgical aspects,” Oticon Medical white paper, M51162, 2012.
3. Nelissen R C, den Besten C A, Mylanus E A, Hol M K, “Stability, survival, and tolerability of a 4.5-mm-wide bone-anchored hearing implant: 6-month data from a randomized controlled clinical trial,” Eur Arch Otorhinolaryngol, E-pub: Mar 20, 2015.
4. Hultcrantz M, “Stability testing of a wide bone-anchored device after surgery without skin thinning.” BioMed Res Int, E-pub: Article ID 853072, 2015.
5. Foghsgaard S, Caye-Thomasen P, “A new wide-diameter bone-anchored hearing implant-prospective 1-year data on complications, implant stability, and survival,” Otol Neurotol, 35(7), pp. 1238-41, 2014.
6. Johansson M, Holmberg M, Hultcrantz M, “Bone anchored hearing implant surgery with tissue preservation – A systematic literature review,” Oticon Medical white paper, M52107, 2014.
7. Singam S, Williams R, Saxby C, Houlihan F P, “Percutaneous bone-anchored hearing implant surgery without soft-tissue reduction: Up to 42 months of follow-up,” Otol Neurotol, 35(9), pp. 1596-1600, 2014.
8. Linear comparison of the data from manufacturers official data sheets. The perceptual performance has not been evaluated.
9. FreeFocus test report (2016), Oticon Medical report no 34425-00

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Ponto – Freedom of choice

We strongly believe that users should be free to choose whichever bone anchored hearing solution suits their needs. That is why, wherever possible, we strive to offer universal interfaces.

MIPS – Minimally Invasive Ponto Surgery

A truly new perspective on tissue preservation

The proven tissue preservation surgery used with the Ponto System has now been further refined to offer an even less invasive procedure. **MIPS (Minimally Invasive Ponto Surgery)** is supported by a complete kit of surgical components designed to minimize the post-op complications and provide tactility and surgical control.

Suture-free surgery – no scarring

MIPS is performed with a minor incision without scar formation around the site. The procedure only removes the soft tissue that corresponds to the shape of the Ponto abutment.

Minimizing post-op complications

MIPS is performed with minimal skin penetration and with less interference to tissue than ever before. This reduced level of intervention aims to minimize post-op complications.



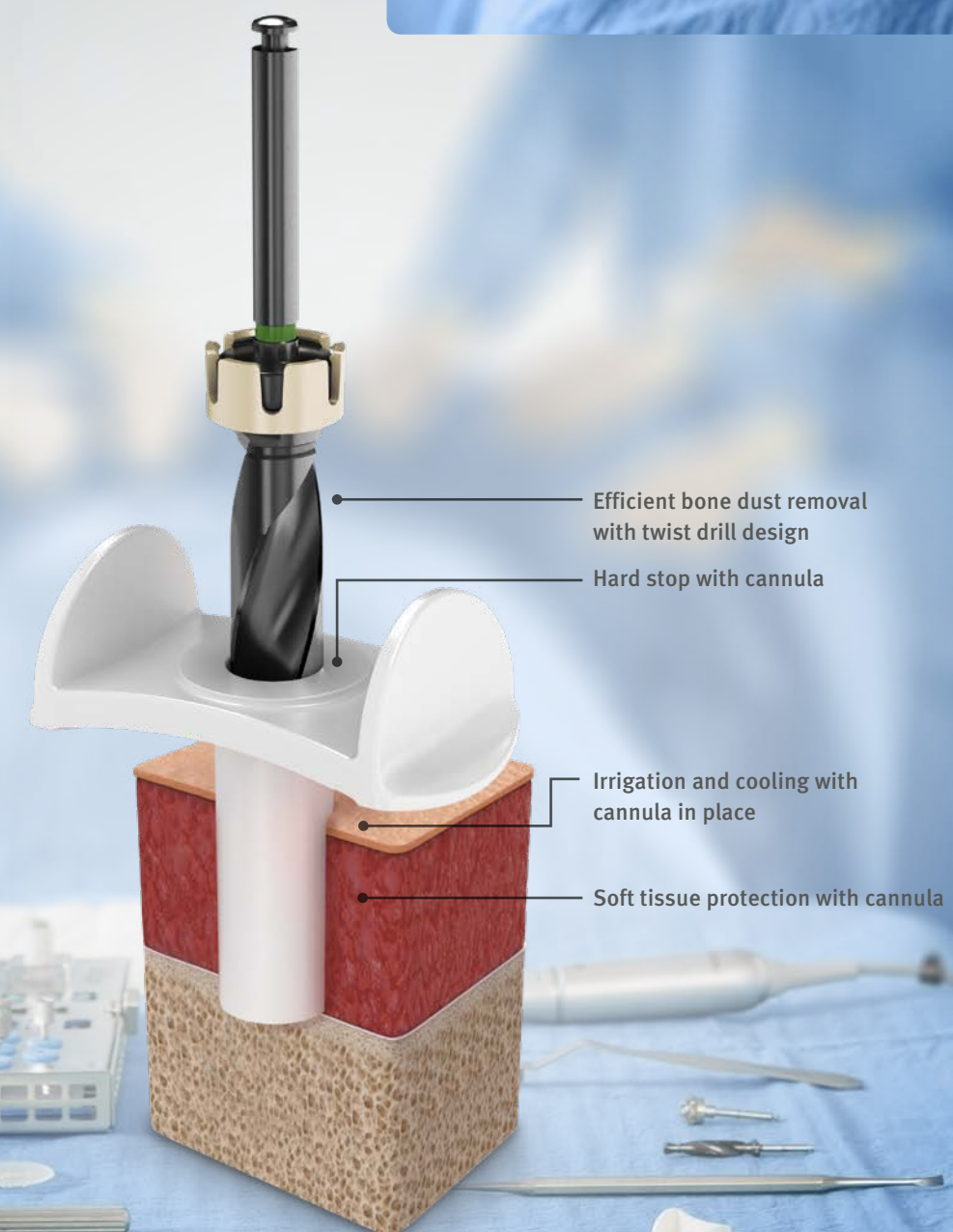
1 week post-op

“Tissue preservation has been a great improvement for patients. With MIPS, the cosmetic outcomes are even better.”

Malou Hultcrantz, Professor, MD, PhD

Tailor-made surgical components

The components for **MIPS** include a unique cannula and state-of-the-art drills for tactility and control during the procedure.



Ponto BHX Implant

Bone bonding – the next level of osseointegration

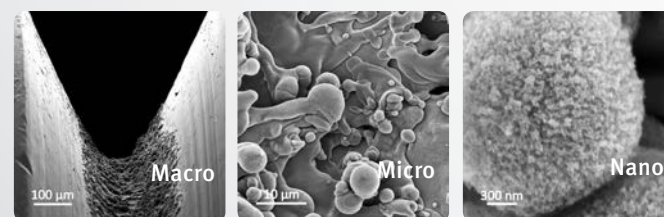
Biohelix™ is the outcome of the latest research from the world leading experts of osseointegration in Gothenburg, Sweden. With a unique combination of Biohelix™ and the OptiGrip™ geometry, the Ponto BHX implant provides great stability from day one. It combines a macro geometry for high initial stability and a micro and nano surface structure that promotes fast and strong bone formation.¹

First laser-ablated titanium surface

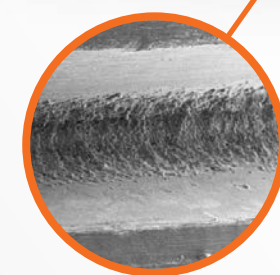
The unique Biohelix™ laser ablation technology enables a site-specific modification at the root of the threads of the proven OptiGrip™ geometry. This creates a three level surface topography matching the natural bone structure at macro-, micro-, and nano-scale.

The surface of Ponto BHX implant matches the building blocks of bone:

Implant



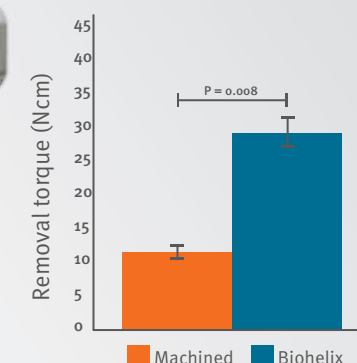
Bone structure



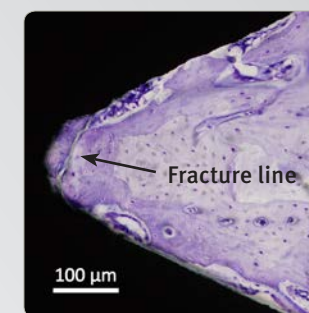
3rd generation surface

Stronger than bone

Biohelix™ increases the strength of the bone-to-implant interface by more than 150%.¹ Studies prove that the bone bonding to the BHX implant is in fact stronger than the bone itself.



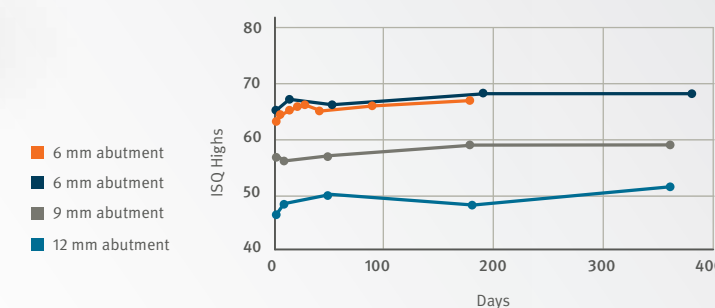
Mean removal torque, which is a measure of the degree of osseointegration, increased by 153% for Ponto BHX implants compared to the machined-only implants at 8 weeks of healing.¹



Mineralized bone grows directly on the surface of a laser-ablated titanium implant. Removal torque tests prove that fracture occurs within the bone.¹ This indicates bone bonding at nano level.

Highest stability from day one

The OptiGrip™ geometry has the highest initial stability of all bone anchored hearing implants.² Studies show a maintained and increased stability over time together with excellent clinical results.^{3, 4, 5}



“Nanometer roughness plays an important role in osseointegration. The improvement in biomechanical capacity is even greater than I imagined.”

R. Brånemark, Associate Professor MD Msc. PhD

Ponto abutment family

Designed for Tissue Preservation

The Ponto abutment family with its OptiFit™ geometry is scientifically proven for tissue preservation surgery⁶ and perfectly suited for performing MIPS – Minimally Invasive Ponto Surgery.

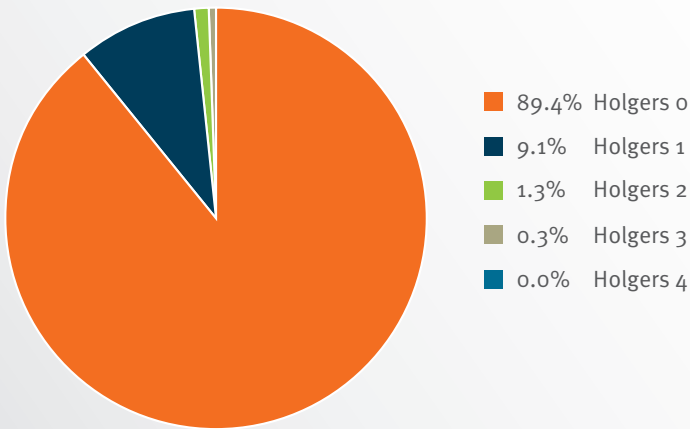


A family of abutments

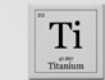
As no two individuals are alike, Ponto abutments are available in four different lengths for different skin thicknesses. This means tissue reduction is rarely necessary.

Low skin reaction rate^{3,4,5}

Regardless of surgical technique, the skin reaction rate is very low when using the Ponto System.



Holgers grades across all visits



The proven surface

The Ponto abutment family features a pure titanium (Ti) surface. This is the proven surface for tissue preservation surgery.⁶

Perfect fit

The OptiFit™ geometry of the Ponto abutments, with its even supportive surface and perfectly matched interface, is ideal for MIPS/tissue preservation surgery. This leaves no pockets or pathways where skin needs to grow back or where bacteria can collect.

“We now predominantly use the new Oticon Medical abutments, the shape of which seems ideally suited for soft-tissue preservation.”

Shyam Singam, DLO, FRCSI⁷

Ponto 3 Sound Processors

The Definition of Power

In bone anchored hearing, when it comes to audibility and understanding, power is everything. Ponto 3 is the world's most powerful abutment-level sound processor family, providing premium sound quality — even to users with a larger hearing loss.



Power your brain – Introducing BrainHearing™

The Ponto 3 family supports the brain's cognitive processes by using Direct Sound Transmission and the powerful Inium Sense platform. This provides the audibility and signal processing that helps the brain decode the sound environment and focus on the important hearing details.



Powerful sound quality

Ponto 3 has the highest output ever from an abutment-level sound processor, the industry's widest bandwidth⁸ and the Inium Sense platform for greater clarity and understanding.

With its unique new FreeFocus directionality feature, Ponto 3 provides **15% better speech understanding in typically more than 70% of the time.**⁹

“Loudness does not help someone hear. What I realized I have isn't loudness, but clarity. Now I understand people. Now I have clarity.”

Nancy, single-sided deafness,
Ponto 3 SuperPower



Power to participate

Ponto 3 connects seamlessly to a wide range of communication and entertainment devices without compromising sound processor power or sound quality. And its proven design offers functionality and reliability in everyday life.

Empowering children

The innovative Ponto Softband gives children and adults the opportunity to try out and experience the Ponto sound quality – with no surgery involved. It offers the widest selection of colours, new wearing options and features new material for comfortable all day use. For best audiological outcomes and to minimize the skin dampening effect, always use a SuperPower processor in combination with soft band.



Oticon Medical Streamer

Freedom to connect

Today's wireless communication is an integral part of everybody's life. The Oticon Medical Streamer offers users a discrete solution for connecting all their devices with Ponto. The concept is easy – one device and one App to access and control the most important communication devices, looped environments, FM systems and much more. All without compromising on power.

Only one device

With Oticon Medical Streamer, users get direct access to mobile phone calls, video chats, music and the built-in telecoil. It also acts as a remote control for the sound processor.



With more possibilities

The Oticon ConnectLine accessories offer users access to better connections – with people, information and entertainment.



Controlled with iPhone and Android

The ConnectLine App allows users to control their Ponto Plus and the ConnectLine accessories with both discretion and ease of use. The App for iPhone®, iPad®, iPod touch® and Android™ devices is available free on App Store and on Google Play™.



Without compromising on power

All streaming is done via the Oticon Medical Streamer – making sure users get the most out of the sound processor without compromising on power, sound quality, or battery lifetime.



Please visit www.oticonmedical.com/connectlineapp for details on compatibility.

Genie Medical Fitting Software

Fitting with precision

The Genie Medical fitting software is designed to provide the flexibility needed for individualized fittings. It is based on the proven Oticon Genie, the benchmark of the hearing aid industry with several million fittings worldwide. All designed to give audiologists confidence in giving users the optimal solution during every fitting.

Feedback Manager

The Feedback Manager measures and defines the maximum amplification setting to minimize feedback.



Individual hearing levels

The BC in-situ audiometry tool allows audiologists to measure individual bone conduction hearing thresholds directly via the sound processor.



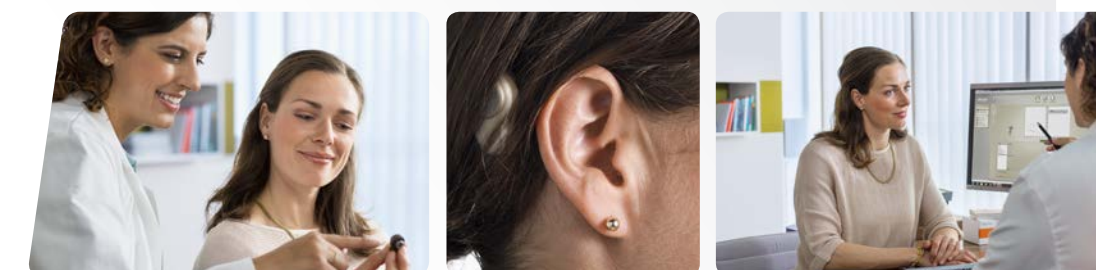
Verification

The Verification and Technical Measurement tools in Genie Medical help to objectively measure the sound processor in a variety of settings using the Skull Simulator and Affinity system from Interacoustics.



"I didn't have words. I knew it was going to be similar to the test band, but it was so much better. With this I can hear everything."

Kevin, severe congenital hearing loss



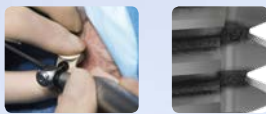
A hearing revolution for users

More than 200,000 users around the world benefit from bone anchored hearing solutions. As part of the William Demant Group, one of the world's largest hearing health care providers, we have access to the latest advancements in hearing research and technologies. This heritage, combined with a strong focus on life-long patient outcomes, has enabled us to continuously empower users of the Ponto System with the most sophisticated tools and technologies.



Today

- **Ponto 3, Ponto 3 Power & Ponto 3 SuperPower**
The world's most powerful family of abutment-level processors



2016

- **MIPS - Minimally Invasive Ponto Surgery**
A truly new perspective on tissue preservation
- **Ponto BHX Implant**
Bone bonding – the next level of osseointegration



2014

- **14 mm OptiFit™ abutment**
The most extensive abutment family for tissue preservation & variations in skin thickness



2013

- **Ponto Plus & Ponto Plus Power**
The first bone anchored family to include a power processor with wireless capabilities.



2012

- **Wide Ponto Implant System with OptiGrip™**
The proven titanium surface and geometry with the highest initial stability



2011

- **Ponto Pro Power**
The first programmable, digital power processor to include a 2-stage feedback management system



2009

- **Launch of the Ponto™ System**
The market's most advanced signal processing