

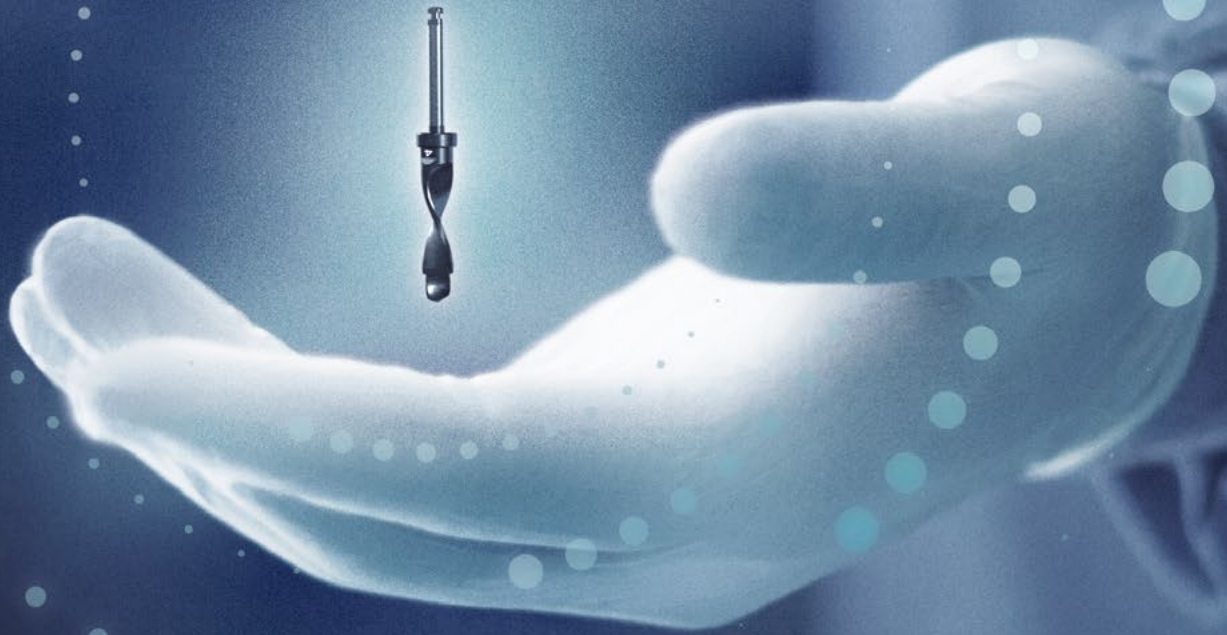
Introducing the MONO procedure

One-step drilling for great outcomes



The MONO procedure

Challenge convention



Another innovative procedure

At Oticon Medical we are constantly driven to develop better solutions for professionals and users of bone anchored hearing systems. By better solutions, we mean solutions that improve both outcomes and the treatment process – like our minimally invasive Ponto procedure – the MIPS procedure.

The MIPS procedure revolutionized bone anchored treatment by giving surgeons the opportunity to move to a truly minimally invasive procedure. It also revolutionized treatment for patients by offering them excellent aesthetic outcomes and fast recovery time, with few complications^{1,2}.

Now the new minimally invasive MONO procedure has made another leap in innovation by reducing drilling to just one single step.

- **The world's first one-step drilling procedure**
Complete osteotomy for bone anchored implants with one drilling step
- **Improve your clinical efficiency**
Can be performed under local anesthetic with easy preparation and handling by clinical staff
- **A minimally invasive procedure**
The small incision eliminates the need for sutures, reducing scarring and numbness and improving cosmetic outcomes^{1,2}
- **Tailor-made surgery kit**
Designed to protect the soft tissue

The Ponto System changes patients' lives³

- 98% of all users report an increased quality of life after Ponto surgery
- In 95% of follow-up visits no skin-related after-care treatment is required
- 98% implant survival rate with the Ponto implants

MONO drill for a great outcome

Using feedback from surgeons and lessons learned from the MIPS procedure, Oticon Medical has reduced the drilling process to one single step using a new type of drill.

The groundbreaking MONO drill has a unique parabolic design. This improves cutting and requires just one drilling sequence to create a perfectly shaped hole for precise implant insertion.

The MONO drill features⁴:

● Unique parabolic design

● Less heat generation*

● Efficient cutting performance

● Low friction and abrasion resistance

● Built-in safety depth stop and soft tissue protection with the cannula

● Control and precision with the cannula

● Stainless steel and Diamond-Like Carbon (DLC) coating



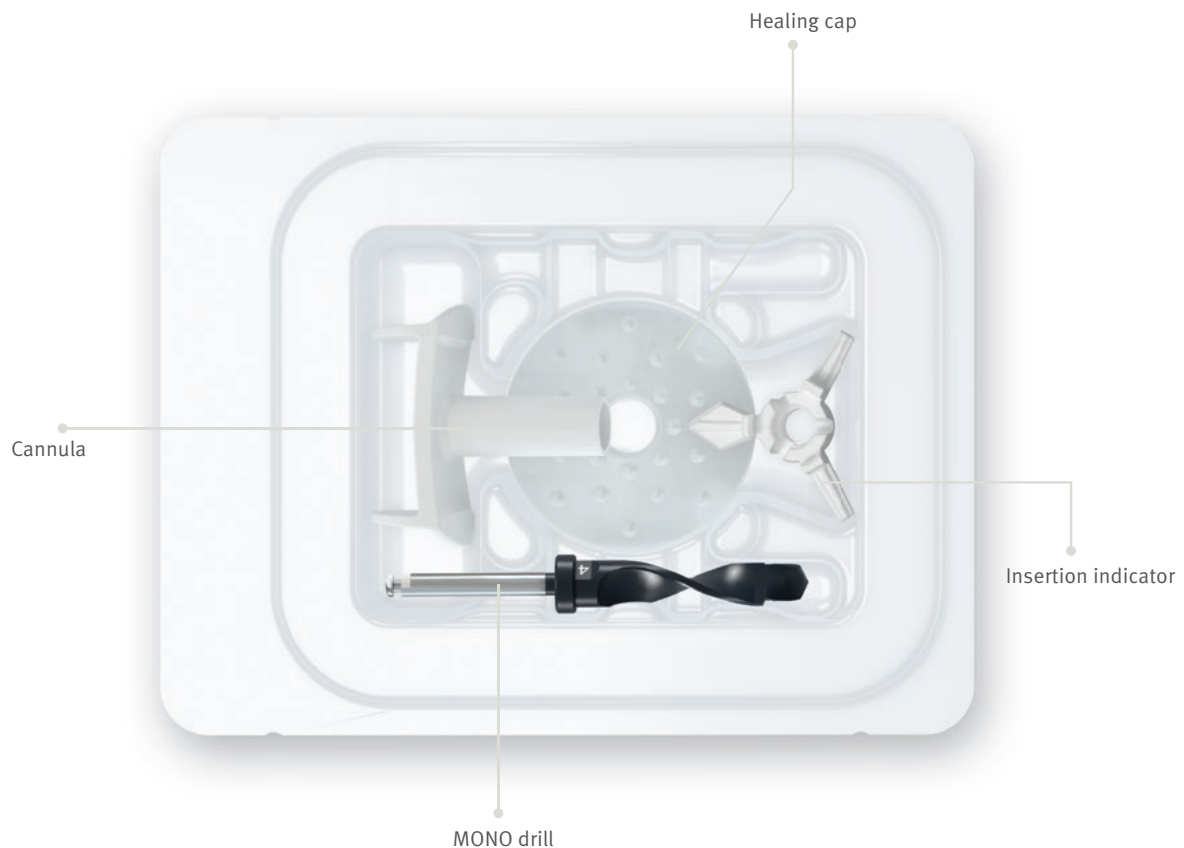
Watch the MONO drill animation here

Minimal procedure. Maximum flexibility.

The MONO procedure is minimally invasive and well-suited for local anesthetics. It takes the principles of the MIPS procedure and makes the procedure even more clinically efficient.

Improve your clinical efficiency

- **Simplified treatment**
Reduce the number of instruments and implant components needed in the procedure. With the tailor-made MONO Surgery Kit, it is easy for clinical staff to prepare for and handle the process
- **Save time and costs**
Clinics that already use the minimally invasive MIPS technique have reported reduced surgical time, staffing and running costs⁵
- **Suitable for local anesthetics**
Free up your valuable OR resources, increase flexibility and give even more patients access to life-changing Ponto treatment. The MONO procedure can be carried out as an outpatient procedure for fast recovery and few complications



*In sawbone compared to MIPS and linear incision

Dr. Dumon and Fatima's perspective on the MONO procedure



“

The new minimally invasive MONO procedure is efficient for both me and my patients and leaves the patient with no scars or suturing.”

Dr. Thibaud Dumon, Otorhinolaryngologist from Clinique du Docteur Jean Causse



Watch the video and learn more about Dr. Dumon and Fatima's view on the MONO procedure

“

What really convinced me was when the surgeon told me that the MONO procedure would only take 20 minutes.”

Fatima, Ponto user, implanted with the MONO procedure



MONO procedure step by step

The minimally invasive MONO procedure* is identical to the MIPS procedure except for the drilling steps. Both the linear incision and MIPS techniques require several drilling steps, while the MONO procedure only requires one.



* Indicated for adult patients (18 years and above) with normal anatomy. For complete indication, refer to the Surgical Manual Addendum including the MONO procedure.

References:

1. Caspers CJ, et al. A clinical evaluation of minimally invasive Ponto surgery with a modified drill system for inserting bone anchored hearing implants. Accepted in Otol Neurotol 2020.
2. Holmes S, et al. Tissue preservation techniques for bone anchored hearing aid surgery. Otol Neurotol. 2021; Publish Ahead of Print.
3. Lagerkvist, H, et al. Ten years' experience with the Ponto bone anchored hearing system – a systematic literature review. Clin Otolaryngol 2020 Sep; 45(5): 667–680.
4. MONO procedure, Oticon Medical Whitepaper 236459.
5. Sardiwalla Y, et al. Direct cost comparison of minimally invasive punch technique versus traditional approaches for percutaneous bone anchored hearing devices. J. Otolaryngol Head Neck Surg. 2017;46(1):46.

Not all hearing loss patients are candidates for a bone anchored solution. All surgical procedures include an element of risk, and it is impossible to guarantee success. Outcomes may vary. Testimonials represent only the opinion of the individuals involved and may not be the experience of others. Not all products are available in all markets. Product availability and indications are subject to regulatory approval in respective markets.

1. Punch



2. Insert cannula



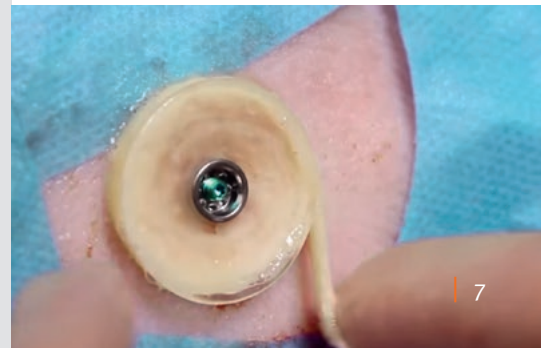
3. Drill



4. Insert implant



5. Apply soft healing cap and dressing



The MONO procedure in stages

Because sound matters

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the power of sound to people at every stage of life. As part of the Demant group, a global leader in hearing health care with more than 16,500 people in over 30 countries and users benefitting from our products and solutions in more than 130 countries, we have access to one of the world's strongest research and development teams and the latest technological advances and insights into hearing care.

Our competencies span more than a century of innovations in sound processing and decades of pioneering experience in hearing implant technology. We work collaboratively with patients, physicians and hearing care professionals to ensure that every solution we create is designed with user needs in mind. We have a strong passion to provide innovative solutions and support that enhance quality of life and help people live full lives – now and in the future. Because we know how much sound matters.



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