

# VIBRANT SOUNDBRIDGE

## Middle Ear Implant System



### VIBRANT SOUNDBRIDGE®

The most successful middle ear implant system available

Unlike a hearing aid which only makes sounds louder, the Vibrant Soundbridge converts sounds from the environment into mechanical vibrations. This mechanical energy is used to stimulate middle ear structures for exceptional high frequency sound perception.

Thanks to its unique design, the Vibrant Soundbridge is a reliable device that can be flexibly used to optimally compensate for different types and degrees of hearing loss. It is the choice of individuals who cannot use conventional hearing aids or who are unsatisfied with them and do not achieve sufficient benefit.

### Amadé Audio Processor

Leading the VIBRANT SOUNDBRIDGE into a new generation

The Amadé audio processor is designed to focus on speech coming from directly in front of the user while reducing background noise. Dual microphone technology with directional mode gives users the comfort to reduce interference from the back and from the side. The processor constantly monitors for unexpected loud sounds and reduces interference caused by wind. These intelligent features allow the user to communicate clearly and comfortably with colleagues and friends in every situation.

### Implant with FMT

The implant is the internal component of the Vibrant Soundbridge. It features the innovative technology of the FMT, or Floating Mass Transducer, which vibrates in response to sound stimulation according to the individual needs of the user. The accurate FMT is able to transmit sound information up to 8000 Hz.

## A Variety of Electrode Arrays

for Every Cochlea

MED-EL leads the cochlear implant industry in providing soft and flexible electrode arrays for complete cochlear coverage (CCC) with maximum protection of the delicate inner ear structures. A wide variety of electrode options enables surgeons to select an optimal solution that matches each person's individual anatomical situation.

### Standard Electrode Array

In nine out of ten surgeries, the soft, flexible standard electrode is the preferred solution. With a length of 31 mm, the Standard Electrode is the longest electrode on the market and features 12 pairs of electrode contacts. It is designed to **stimulate the entire cochlea, from the base to the apex for Complete Cochlear Coverage** of all available frequency ranges.

### FLEX<sup>SOFT</sup> Electrode Array

Similar to the Standard electrode, the FLEX<sup>SOFT</sup> Electrode allows for deep insertion into the apical region of the cochlea (CCC) and offers increased mechanical flexibility for an even more gentle insertion into the cochlea.

### Medium Electrode Array

The Medium Electrode features 12 moderately spaced electrode pairs and is designed for cases where deep insertion is not desired or is not possible due to anatomic restrictions.

### FLEX<sup>EAS</sup> Electrode Array

The FLEX<sup>EAS</sup> Electrode is designed for combined Electric Acoustic Stimulation (EAS) with insertion no deeper than the basal cochlear turn.

### Compressed Electrode Array

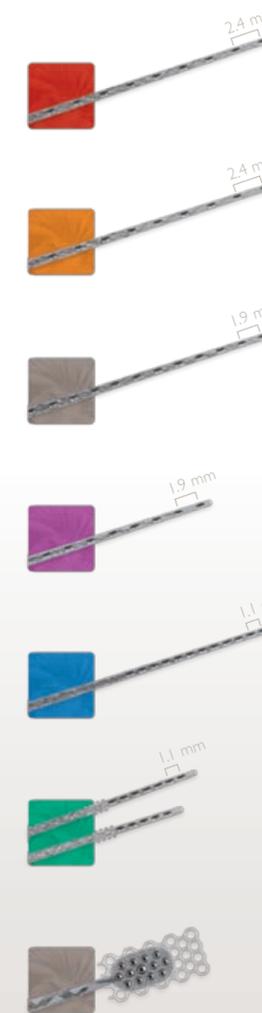
Specifically designed for partial ossification or malformation of the cochlea, the Compressed Electrode features 12 pairs of contacts equally spaced over a shorter distance to maximise the number of channels available and optimise performance.

### Split Electrode Array<sup>1</sup>

Specifically designed for severe ossification of the cochlea, the Split Electrode features two separate electrode branches, one with five pairs and one with seven pairs of contacts.

### Auditory Brainstem Implant (ABI)

The Auditory Brainstem Implant (ABI) is intended for patients with nonfunctional auditory nerves, typically due to Neurofibromatosis Type II (NF2). A special electrode array that features 12 contacts arranged on a soft, pre-shaped silicone paddle.



## MED-EL Hearing Implant Solutions

### Setting the Standard in Performance, Ease of Use and Reliability

MED-EL Hearing Implant Systems combine the most advanced and powerful technologies for a best possible hearing experience. Designed to be comfortable to wear and easy to use, MED-EL provides dedicated systems for individuals with different types and degrees of hearing loss:

- The **MAESTRO Cochlear Implant System** for individuals with severe to profound hearing loss.
- The **EAS Hearing Implant System**, the ideal solution for individuals with partial deafness.
- The **VIBRANT SOUNDBRIDGE** Middle Ear Implant System for mild to severe sensorineural or conductive hearing losses and mixed hearing losses.

**VIBRANT SOUNDBRIDGE:**  
Flexible and Reliable

External: Amadé Audio Processor	Internal: VORP with FMT	Software SYMFIT 5.0
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<sup>1</sup> only available with the PULSARci<sup>100</sup>

# MAESTRO

## Cochlear Implant System



### The New MAESTRO™ CI System

The most powerful and efficient CI system available

In changing and challenging listening situations, MAESTRO provides users with a superior hearing. With Automatic Sound Management, users are able to transition from one listening environment to the next without the need to press buttons and change programs.

The next generation of FineHearing™ Technology is designed to provide the user with an even more detailed hearing experience, especially for music enjoyment.

### OPUS Audio Processors

The thinnest and lightest processors available

OPUS audio processors offer superior front end processing with the proprietary Automatic Sound Management and the most detailed hearing experience with the unique FineHearing technology. With a modular design, OPUS processors can be worn in a variety of configurations to fit the individual needs and age requirements of the wearer.

Users can now enjoy this superior hearing experience **up to 50% longer with the same set of zinc-air batteries**. Using the latest electronic circuitry, energy efficiency has been greatly improved while still maintaining outstanding performance.

Now Available in a Variety of New Colours!

OPUS audio processors are now available in a variety of exciting colours. Users can choose between White, Creme and Ebony. In addition, MED-EL now offers an assortment of new audio processor colours for children including Green, Orange, Baby Pink and Baby Blue.



### Introducing the New CONCERTO Cochlear Implant

The world's smallest titanium cochlear implant

The new CONCERTO Cochlear Implant is the smallest CI available with titanium housing. With the same small footprint, it is 25% thinner than the SONATA titanium implant. The thinner, stronger CONCERTO titanium implant is optimised for minimally invasive surgical techniques. The particularly small dimensions make it the ideal choice for children and adults of all ages.

CONCERTO offers the same powerful electronics platform for an especially fast and efficient relaying of information.

The CONCERTO is offered with a variety of the **softest and most flexible electrode arrays** ever produced for preservation of the delicate neural structures of the cochlea. (see back page for options)

### FineTuner

The unique remote control designed for ease-of-use

The unique FineTuner™ remote control unit allows users to make setting changes “on the go,” without removing the processor from the ear. The large buttons of the FineTuner make it very easy to use – especially for people who have difficulty using or seeing small controls. Users of bilateral MED-EL audio processors can make independent adjustments to both audio processors with a single FineTuner remote control.

### Introducing MAESTRO System Software 4.0

New features, more flexibility

The new generation MAESTRO System Software offers advanced functionality and a variety of features including the new coding strategies FS4\* and FS4-p\*. The software supports both new and legacy cochlear implants.

### New for EAS: Acoustic fitting via software

The MAESTRO System Software 4.0 integrates comprehensive audiology and acoustic fitting tasks which allows the fitting of both the electric and acoustic stimulation optimally in a quick and convenient way.

\*implementation based on regulatory approval in different countries.



actual size

# EAS

## Hearing Implant System



### The 2<sup>nd</sup> Generation EAS System

The ideal solution for partial deafness

Electric Acoustic Stimulation (EAS™) is designed to fit the unique needs of individuals with partial deafness. **EAS combines the advantages of acoustic amplification and cochlear implant technology in one system**. Users benefit from both their natural residual low-frequency hearing through acoustic amplification and high frequency stimulation from the cochlear implant. The synergistic effect created by this combination offers users superior hearing especially in difficult listening situations and when listening to music.

### The New DUET 2 Audio Processor

Improved power efficiency

The DUET 2 features advanced electronics that improve battery life time by up to 50%.

Automatic Sound Management (ASM), the proprietary MED-EL technology, offers users the best possible hearing experience in every environment – automatically.

### FLEX<sup>EAS</sup> Electrode Arrays

Soft, flexible, atraumatic

Natural, low-frequency residual hearing is preserved by using the world's softest and most flexible electrodes. During surgery, the FLEX<sup>EAS</sup> electrode is gently inserted into the cochlea. Thanks to the unique wave-shaped wire design, the highly flexible tip of the FLEX<sup>EAS</sup> electrode enables insertion force to be significantly reduced, thereby protecting the delicate structures of the inner ear from damage.

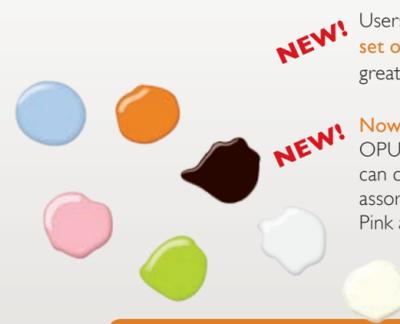
### EAS: 2<sup>nd</sup> Generation Electric and Acoustic Stimulation

Audio Processor:  
DUET 2 with FineTuner

Implants:  
CONCERTO  
SONATA  
PULSAR

Electrodes:  
FLEX<sup>EAS</sup>  
see back page

Software:  
MAESTRO System  
Software 4.0



NEW!

NEW!

### MAESTRO: One System – Various Options

Audio Processors:	Implants:	Electrodes:	Software:
OPUS 2 with FineTuner	CONCERTO	see back page	MAESTRO System
OPUS 1	SONATA		Software 4.0
	PULSAR		