

CONCERTO

World's Smallest and Lightest
Titanium Implant



Key Features

25% thinner than the SONATA titanium implant with the same footprint.

Further reduced weight, now 7.6 g.

Designed for minimally invasive surgical techniques.

The optimal choice for surgeries performed on young children.

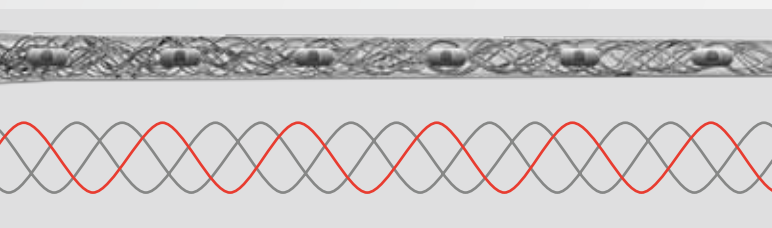
Largest variety of electrode arrays for every cochlear anatomy. Featuring the wave-shaped wire design, MED-EL electrodes are the softest and most flexible for atraumatic insertion.

Integrated reference electrodes for reduced risk and shorter surgery time – no need for surgical placement of a reference electrode.

Featuring sophisticated I¹⁰⁰ electronics capable of parallel processing at high rates of stimulation.

Supports 250 spectral bands.

Available both with and without pins allowing surgeons to choose their preferred implant according to the patient's needs. The CONCERTO PIN housing variant is designed for additional lateral and rotational fixation on the skull.



softest, most atraumatic electrode arrays featuring wave-shaped wire design

Electrode Arrays

Standard

12 stimulation channels
Contact spacing: 2.4 mm

24 electrode contacts
Contact extent: 26.4 mm



FLEX^{SOFT}

12 stimulation channels
Contact spacing: 2.4 mm

19 electrode contacts
Contact extent: 26.4 mm



FLEX^{EAS}

12 stimulation channels
Contact spacing: 1.9 mm

19 electrode contacts
Contact extent: 20.9 mm



Medium

12 stimulation channels
Contact spacing: 1.9 mm

24 electrode contacts
Contact extent: 20.9 mm



Compressed

12 stimulation channels
Contact spacing: 1.1 mm

24 electrode contacts
Contact extent: 12.1 mm



The CONCERTO is part of the MAESTRO Cochlear Implant System featuring:

- The world's thinnest and lightest audio processor, the OPUS 2
- Automatic Sound Management and FineHearing Technology
- MAESTRO System Software 4.0 for flexible and efficient fitting

Technical Data

CONCERTO Cochlear Implant for the MAESTRO™ CI System

Stimulation Features

- Sequential and parallel stimulation
- Maximum pulse rate: 50,704 pulses per second
- Pulse width per phase: 2.08–425.0 μ s/ph
- Time resolution (nominal values): 1.67 μ s
- Overall amplitude range: 0–1200 μ s*

Pulse Shapes

- Biphasic, symmetric triphasic and triphasic precision pulses

Comprehensive Diagnostic Toolkit

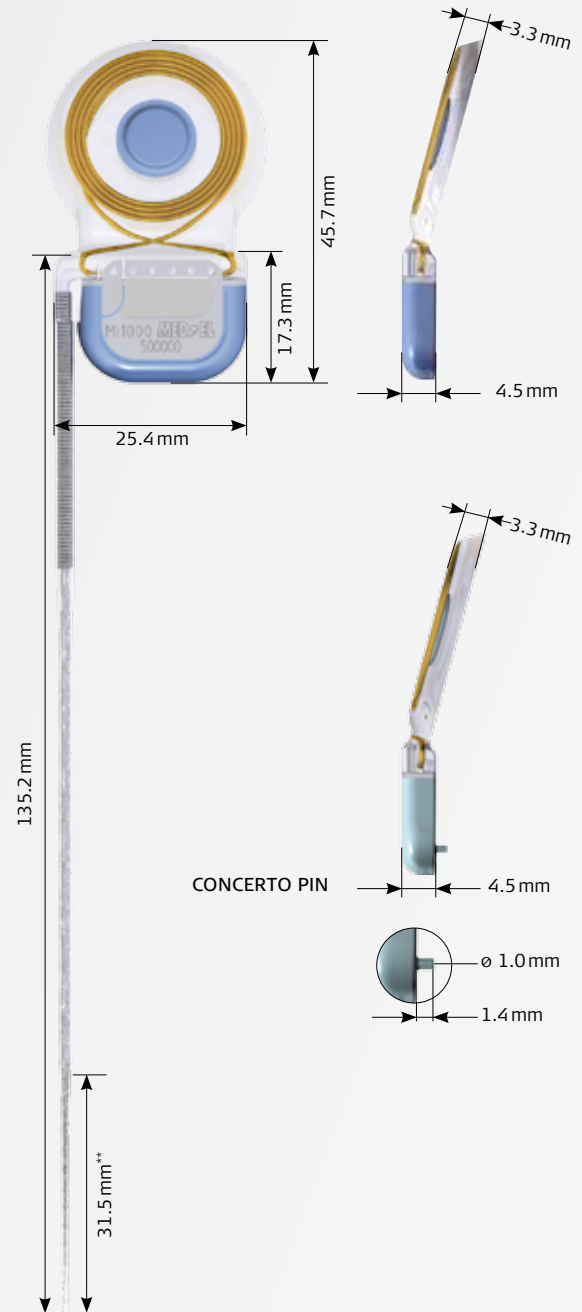
- Status Telemetry
- Impedance and Field Telemetry (IFT)
- Auditory Nerve Response Telemetry (ART™)
- Electrically Evoked Auditory Brainstem Response (EABR)
- Electrically Evoked Stapedius Reflex Threshold (ESRT)

Safety Features

- Output Capacitors for Each Channel
- Unique Implant ID (IRIS)

Housing Design

- Length: 45.7 mm
- Length at stimulator: 17.3 mm
- Width at stimulator: 25.4 mm
- Width at coil: 29.0 mm
- Thickness at stimulator: 4.5 mm
- Thickness at coil: 3.3 mm
- Pin length: 1.4 mm
- Pin diameter: 1.0 mm
- Weight: 7.6 g



* typical value

** with Standard Electrode Array