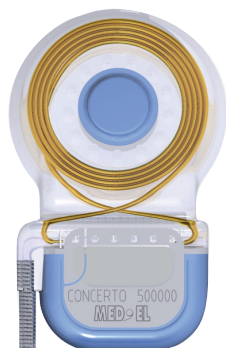


actual size



NEW!
CONCERTO

World's Smallest and Lightest Titanium Implant

25% thinner than the SONATA¹⁰⁰ 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 **small 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.*

softest, most atraumatic
featuring wave-shaped wire design

CONCERTO Cochlear Implant

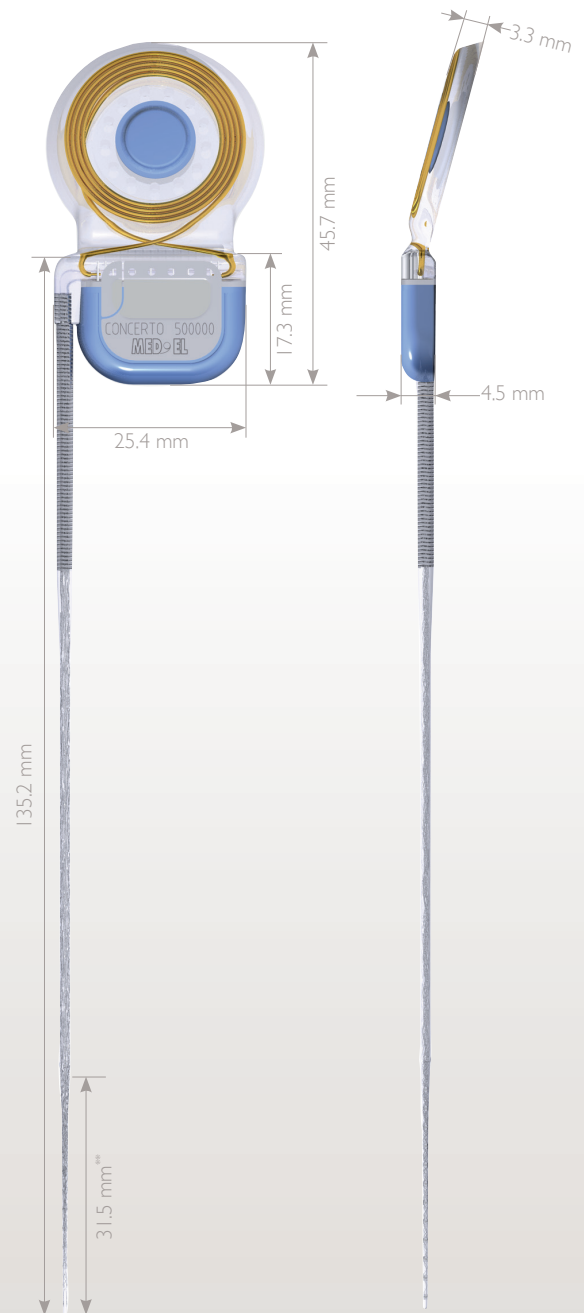
Housing Design

Stimulator Housing

- Length: 17.3 mm
- Width: 25.4 mm
- Thickness: 4.5 mm

Overall Implant Dimensions

- Length: 45.7 mm
- Width at coil: 29.0 mm
- Width at stimulator: 25.4 mm
- Thickness at coil: 3.3 mm
- Thickness at stimulator: 4.5 mm
- Weight: 7.6 g



Electrode Arrays

Standard

- | | |
|-------------------------|-------------------------|
| 12 stimulation channels | 24 electrode contacts |
| Contact spacing: 2.4 mm | Contact extent: 26.4 mm |

FLEX^{SOFT}

- | | |
|-------------------------|-------------------------|
| 12 stimulation channels | 19 electrode contacts |
| Contact spacing: 2.4 mm | Contact extent: 26.4 mm |

Medium

- | | |
|-------------------------|-------------------------|
| 12 stimulation channels | 24 electrode contacts |
| Contact spacing: 1.9 mm | Contact extent: 20.9 mm |

FLEX^{EAS}

- | | |
|-------------------------|-------------------------|
| 12 stimulation channels | 19 electrode contacts |
| Contact spacing: 1.9 mm | Contact extent: 20.9 mm |

Compressed

- | | |
|-------------------------|-------------------------|
| 12 stimulation channels | 24 electrode contacts |
| Contact spacing: 1.1 mm | Contact extent: 12.1 mm |

Auditory Brainstem Implant (ABI)

- 12 stimulation channels arranged on a soft, pre-shaped silicone paddle

Technical Features

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 cu***

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)

* implementation based on regulatory approval in different countries.
** with Standard Electrode Array
*** typical value