

SONATA_{TI}^{I100}

SMALLEST TITANIUM COCHLEAR IMPLANT - ONLY FROM MED-EL

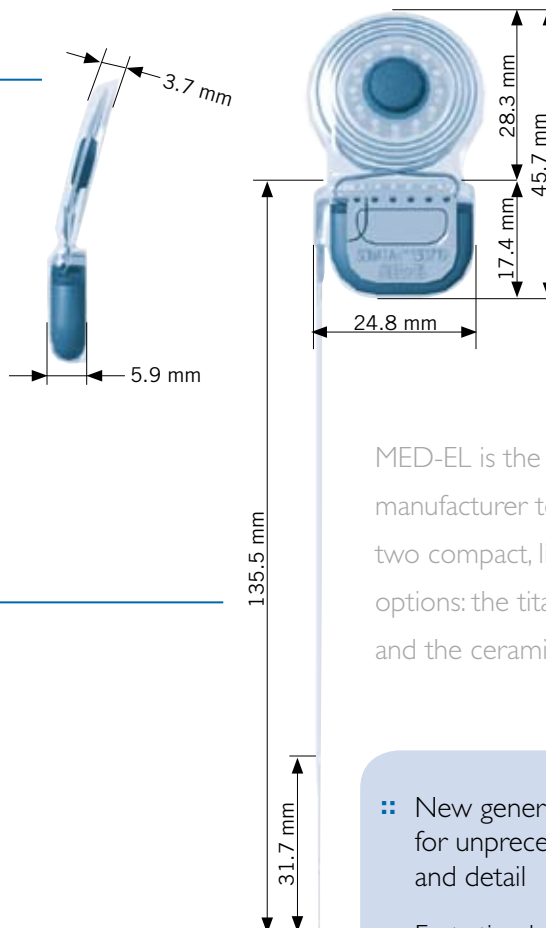
Mechanical Design

Stimulator Housing

Length:	17.4 mm
Width:	24.8 mm
Thickness:	5.9 mm

Overall Implant Dimensions

Length:	45.7 mm
Width at coil:	29.0 mm
Width at stimulator:	24.8 mm
Thickness at coil:	3.7 mm
Thickness at stimulator:	5.9 mm
Weight:	8.6 g



MED-EL is the **only** cochlear implant manufacturer to offer a choice of two compact, lightweight housing options: the titanium SONATA_{TI}^{I100} and the ceramic PULSAR_C^{I100}

Standard Electrode Array

Contacts

24 electrodes arranged as 12 twin surfaces	
Geometric surface per channel:	0.14 mm*

Dimensions

Distance between electrodes:	2.4 mm*
Electrode diameter at apical end:	0.5 mm*
Electrode diameter at basal end:	1.3 mm*

I¹⁰⁰ Electronics

Available Features:

Biphasic pulse shapes	
Sequential stimulation	
Overall amplitude range:	0 - 1200 cu*
Impedance and Field Telemetry (IFT)	
Maximum pulse rate:	50,704 pulses per second
Pulse width per phase:	2.08 - 425.0 µs/ph
Time resolution (nominal values):	1.67 µs
Auditory Nerve Response Telemetry (ART™)	
Status Telemetry	

Additional Features[†]:

Symmetric triphasic and triphasic precision pulses
Parallel stimulation
Precision IFT based on Sigma-Delta modulation

* Typical value

[†] Accessibility dependent on future software implementation and regulatory clearance

- ❑ New generation I¹⁰⁰ electronics for unprecedented sound clarity and detail
- ❑ Fast stimulation rates of up to 50,704 pulses per second
- ❑ Smallest stimulator housing and most lightweight implant available
- ❑ Variety of safety features: unique implant ID, individual output capacitors for each channel
- ❑ Variety of electrode arrays designed to achieve complete cochlear coverage, preservation of residual hearing, and for challenging anatomical cases.

The Hearing Implant Company

COCHLEAR IMPLANTS :: MIDDLE-EAR IMPLANTS

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