




# COCHLEAR IMPLANT MANUFACTURER COMPARISON TABLE

	ADVANCED BIONICS	COCHLEAR	MED-EL
<b>Currently Available Implants</b>	<p>Technology: HiRes 90K™ Implant Family</p> <p>Sound Processors: Naida CI Q Series</p> <p style="text-align: center;">Neptune™      Harmony™</p> 	<p>Technology: Nucleus® Profile Series Implant; Nucleus® C124RE Series</p> <p>Sound Processors: Kanso™</p> <p style="text-align: center;">Nucleus® 6      Nucleus® Hybrid™*</p>  <p>* Combines cochlear implant and hearing aid technology (detailed information not included in this table)</p>	<p>Technology: Synchrony®; Maestro™</p> <p>Sound Processors: Sonnet®</p> <p style="text-align: center;">Rondo®      Opus 2™</p> 
<b>External Processor Options</b>	<p>Behind-The-Ear (BTE) Some-On-The-Ear (Battery Pack is worn off the ear) Off-The-Ear (Nothing on the ear)</p>	<p>Behind-The-Ear (BTE) - Nucleus® Off-The-Ear (Nothing on the ear) - Kanso™</p>	<p>Behind-The-Ear (BTE) - Sonnet® Some-On-The-Ear (Battery Pack is worn off the ear) Off-The-Ear (Nothing on the ear) - Rondo®</p>
<b>Processing Strategies (not inclusive of all the strategies listed by each company)</b>	<ul style="list-style-type: none"> <li>• Dual microphone technology helps focus on speaker's voice in noisy settings, leading to better speech comprehension in noise</li> <li>• ClearVoice™ technology helps separate speech sounds from other sounds, leading to better speech comprehension in noise</li> <li>• HiRes® Fidelity 120® technology provides 5 times more sound resolution than other CI systems to help the listener hear more details in sound (e.g., birds chirping, layers of music); higher detail lead to richer and fuller sound</li> <li>• Automatically adjusts to various listening settings</li> <li>• Offers advanced technology for hearing on the phone and in water</li> <li>• Binaural VoiceStream Technology™ for bilateral users; gives sound processors the ability to communicate with each other, so both ears can focus on understanding speech</li> </ul>	<ul style="list-style-type: none"> <li>• SmartSound® iQ technology: <ul style="list-style-type: none"> <li>- Dual microphones help focus on the speaker's voice</li> <li>- Suppresses background and wind-related noise, leading to better speech comprehension in noise</li> <li>- Enhances softer speech sounds, making voices clearer and crisper</li> <li>- Brings overall sound levels to a comfortable range and selectively lifts the softest sounds to a higher level, allowing the listener to appreciate soft sounds in quiet environments</li> <li>- Recognizes music and adjusts accordingly so that sound is heard from all directions, with musical sounds at a comfortable range</li> </ul> </li> <li>• SCAN scene classifying technology detects 6 sound environments: Quiet, Speech, Speech in Noise, Noise, Music and Wind, and automatically switches programs for optimal hearing in each</li> <li>• Perimodiolar placement: electrodes are positioned closer to the hearing nerve, which is said to improve hearing performance</li> </ul>	<ul style="list-style-type: none"> <li>• FineHearing™ Technology: <ul style="list-style-type: none"> <li>- Based on research showing that CI users with usable acoustic hearing in low frequencies have greater speech-in-noise comprehension and music appreciation skills, this technology provides better temporal coding of sounds in the low frequencies, which mimics normal hearing</li> <li>- Automatic Sound Management automatically adapts to sounds in the environment, controlling the volume to levels that are most comfortable and optimal for speech comprehension in all listening environments</li> <li>- Covers a wide frequency range from 70 Hz to 8500 Hz</li> </ul> </li> <li>• Electrode array provides stimulation of the entire cochlear; said to improve speech discrimination and sound quality</li> <li>• Sonnet® sound processor has two microphones to sharpen sounds in front of you</li> </ul>
<b>Other Notable Features</b>	<ul style="list-style-type: none"> <li>• T-Mic™ microphone: Placed at opening of ear canal; uses outer ear's natural sound-gathering capabilities</li> <li>• Wireless connectivity: Accessories include EasyCall, which streams calls directly from phone to Naida CI sound processor</li> <li>• Compatible with Phonak Roger wireless technology</li> <li>• Offers 100% waterproof, swimmable implant options</li> </ul>	<ul style="list-style-type: none"> <li>• True Wireless™ accessories include: mini microphone (transmits speech directly to sound processor from a range of 23 feet); TV streamer; and phone clip (sends sound from a Bluetooth-enabled phone directly to sound processor).</li> <li>• Built-in telecoil</li> <li>• Nucleus Aqua+ fits over Nucleus Sound Processor to provide waterproof capability</li> </ul>	<ul style="list-style-type: none"> <li>• Unparalleled MRI safety - no magnet removal necessary</li> <li>• Wireless connectivity and direct audio input options are available</li> <li>• Built-in telecoil</li> <li>• WaterWear: A 100% waterproof cover that can be used with all Med-El processors</li> </ul>
<b>Cosmetic Features/ User Controls</b>	<ul style="list-style-type: none"> <li>• Flexibility in how you want to wear your processor (e.g., off-the-ear, partly off-the-ear)</li> <li>• Variety of colors and designs available</li> </ul>	<ul style="list-style-type: none"> <li>• Kanso™ - discreet, off-the-ear</li> <li>• Nucleus® 6 - smallest and thinnest BTE processor in the industry</li> <li>• Remote control</li> <li>• Variety of colors and designs available</li> </ul>	<ul style="list-style-type: none"> <li>• Rondo® - discreet, off-the-ear</li> <li>• BTE options are thin and lightweight</li> <li>• Remote control</li> <li>• Variety of colors and designs available</li> </ul>