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*Note: not all tools or instruments are available for each market. Please confirm availability with your local AB contact.*
## HiFocus Electrode Characteristics

<table>
<thead>
<tr>
<th></th>
<th>HiFocus Mid-Scala</th>
<th>HiFocus SlimJ</th>
<th>HiFocus 1j</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cochlear Position</td>
<td>Mid-Scala</td>
<td>Lateral Wall</td>
<td>Lateral Wall</td>
</tr>
<tr>
<td>Active Length</td>
<td>~15 mm</td>
<td>~20 mm</td>
<td>~17 mm</td>
</tr>
<tr>
<td>Angular Insertion Depth</td>
<td>420°</td>
<td>~420°</td>
<td>330°-520° *</td>
</tr>
<tr>
<td>Electrode Array at</td>
<td>0.5 x 0.5 mm</td>
<td>0.5 x 0.26 mm</td>
<td>0.4 x 0.6 mm</td>
</tr>
<tr>
<td>Contact #1 (Distal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrode Array at</td>
<td>0.7 x 0.7 mm</td>
<td>0.76 x 0.56 mm</td>
<td>0.8 x 0.8 mm</td>
</tr>
<tr>
<td>Contact #16 (Proximal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended</td>
<td>0.8 mm</td>
<td>0.8 mm</td>
<td>1.5 mm **</td>
</tr>
<tr>
<td>Cochleostomy Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ability to Reload on</td>
<td>Yes</td>
<td>N/A</td>
<td>Yes</td>
</tr>
<tr>
<td>Insertion Tool</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* for extended round window or cochleostomy  ** with metal insertion tube
HiRes™ Ultra

Cochlear Implant
HiRes Ultra Surgical Products

CI-1600-05 - HiRes Ultra CI with HiFocus SlimJ Electrode
The HiRes Ultra implant with HiFocus SlimJ electrode, device registration and operative report form, and device labels are enclosed in the implant box.

CI-1600-04 - HiRes Ultra CI with HiFocus Mid-Scala Electrode
The HiRes Ultra implant with HiFocus Mid-Scala electrode preloaded on a stylet, HiFocus Mid-Scala reloading tool, and spare stylet are provided in a sterile tray. In addition, device registration and operative report form, and device labels are enclosed in the implant box.
**HiRes Ultra Surgical Instruments**

**CI-4509 - HiRes Ultra Reusable Surgical Tool Kit**

Kit containing all the reusable surgical templates required for the HiRes Ultra implant. It includes two (2) BTE templates, two (2) recess gauges, and two (2) coil gauges.

**CI-4421 - HiRes Ultra BTE Template**

The reusable template helps determine placement of the BTE sound processor on the patient’s ear, which enables the surgeon to determine the location for the incision and implant placement.

**CI-4331 - HiRes Ultra Recess Gauge**

Reusable recess gauge used to size the bone bed for proper diameter and depth of the HiRes Ultra implant.

**CI-4341 - HiRes Ultra Coil Gauge**

Reusable metal gauge used for sizing of the skin flap or pocket for the HiRes Ultra implant.

**CI-4426 - HiRes Ultra Mock Up and Literature Kit ***

The single-use HiRes Ultra silicone mock-up, provided sterile in a peel pack, is used to determine the proper fit and placement of the implant and electrode fantail. Please note: one (1) HiRes Ultra silicone mock-up is also included in the implant box.

* FDA Based Countries Only
HiRes Ultra Magnet Replacement Tool Kit

**CI-1418 - HiRes Ultra Magnet Replacement Tool Kit**
The kit contains all reusable instruments needed to remove and replace the magnet.

**CI-4348 - HiRes Ultra Magnet Insertion Tool**
Reusable tool used to remove the magnet from the silicon lip of the implant.

**CI-4349 - HiRes Ultra Magnet Pusher Tool**
The Magnet Pusher Tool holds the magnet while it is inserted under the silicon lip.

**CI-1411 - HiRes Ultra Temporary Non Magnetic Plug**
The single-use insert dummy is used in cases where the HiRes Ultra Magnet is removed for an extended period of time to allow for an MRI. The titanium dummy, provided in a sterile peel pack, is used to fill the cavity that houses the magnet. This prevents fibrous tissue growth in the cavity.

**CI-1413 - HiRes Ultra Replacement Magnet**
The replacement magnet is provided in a sterile peel pack. It is used when a patient has had the original magnet removed for an MRI.
HiFocus SlimJ Electrode Instrumentation

**CI-4350-02 - HiFocus Electrode Forceps Kit**
Two (2) reusable electrode forceps to aid in the insertion of the HiFocus SlimJ electrode.

**CI-1605 - HiFocus SlimJ Depth Gauge**
The HiFocus SlimJ electrode is a single-use, EO Sterilized depth gauge intended to be used to determine the patency of suspected occluded cochlea prior to insertion of the HiFocus SlimJ electrode.
# HiFocus Mid-Scala Electrode Instrumentation

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI-4507</td>
<td><strong>HiFocus Mid-Scala Insertion Tool Kit Package</strong>&lt;br&gt;The sterile instrument set contains one (1) HiFocus Mid-Scala insertion tool, stylet and reloading tool.</td>
</tr>
<tr>
<td>CI-4207</td>
<td><strong>HiFocus Mid-Scala Insertion Tool Package</strong>&lt;br&gt;Single-use, disposable HiFocus Mid-Scala insertion tool included in a sterile tray.</td>
</tr>
<tr>
<td>CI-4508</td>
<td><strong>HiFocus Mid-Scala Instrument Kit</strong>&lt;br&gt;The HiFocus Mid-Scala electrode instrument kit contains two (2) HiFocus Mid-Scala cochleostomy gauges and two (2) electrode claw tools.</td>
</tr>
<tr>
<td>CI-4347</td>
<td><strong>HiFocus Mid-Scala Cochleostomy Gauge</strong>&lt;br&gt;The cochleostomy gauge can be used to verify the minimum recommended cochleostomy or round window size.</td>
</tr>
<tr>
<td>CI-4254</td>
<td><strong>Electrode Claw Tools</strong>&lt;br&gt;The reusable Electrode Claw Tool can be used to stabilize the electrode during and/or following insertion or to push the array in during freehand insertion.</td>
</tr>
</tbody>
</table>

*Available only in kit configuration CI-4508*
HiRes 90K™ Advantage
Cochlear Implant
HiRes 90K Advantage Surgical Products

**CI-1500-04 - HiRes 90K Advantage CI with HiFocus Mid-Scala electrode**

The HiRes 90K Advantage implant with HiFocus Mid-Scala electrode preloaded on a stylet, insertion tool, HiFocus Mid-Scala reloading tool, and spare stylet are provided in a sterile tray. In addition, a sterile HiRes 90K implant silicone mock-up, device registration and operative report form, and device labels are enclosed in the implant box.

**CI-1500-01 - HiRes 90K Advantage CI with HiFocus 1j electrode**

The HiRes 90K Advantage implant with HiFocus 1j electrode preloaded is provided in a sterile tray. In addition, a sterile HiRes 90K implant silicone mock-up, device registration and operative report form, and device labels are enclosed in the implant box.
HiRes 90K Advantage Surgical Instruments

**CI-4500 - HiRes 90K Surgeon’s Tool Kit BTE Template**

The kit contains all the reusable surgical templates required for the HiRes 90K implant family. It includes two (2) BTE marking templates, two (2) recess marking templates, two (2) recess gauges, and two (2) coil gauges.

**CI-4420 - HiRes 90K BTE Marking Template**

This reusable template helps determine placement of the BTE sound processor on the patient’s ear, which enables the surgeon to determine the location for the incision and implant placement.

**CI-4430 - HiRes 90K Recess Marking Template**

Reusable template used to verify that the bone bed placement is a minimum of 3.5 cm away from the posterior canal wall to avoid the implant being placed underneath the BTE sound processor.

**CI-4340 - HiRes 90K Coil Gauge**

Reusable metal gauge used for sizing of the skin flap or pocket for the HiRes 90K implant.
**CI-4330 - HiRes 90K Recess Gauge**

Reusable gauge used to size the bone bed for proper diameter and depth of the HiRes 90K implant family.

**CI-4425 - HiRes 90K Mock-up**

The single-use silicone mock-up, provided sterile in a peel pack, is used to determine the proper fit and placement of the implant and electrode fantail before opening the sterile tray that contains the actual implant. (Please note: This item is provided in the implant box.)
HiFocus Mid-Scala Electrode Instrumentation

**CI-4507 - HiFocus Mid-Scala Insertion Tool Kit Package**

The sterile instrument set contains one (1) HiFocus Mid-Scala insertion tool, stylet and reloading tool.

**CI-4207 - HiFocus Mid-Scala Insertion Tool Package**

Single-use, disposable HiFocus Mid-Scala insertion tool included in a sterile tray.

**CI-4508 - HiFocus Mid-Scala Instrument Kit**

The HiFocus Mid-Scala electrode instrument kit contains two (2) HiFocus Mid-Scala cochleostomy gauges and two (2) electrode claw tools.

**CI-4347 - HiFocus Mid-Scala Cochleostomy Gauge**

The cochleostomy gauge can be used to verify the minimum recommended cochleostomy or round window size.

**CI-4254 - Electrode Claw Tools**

The reusable Electrode Claw Tool can be used to stabilize the electrode during and/or following insertion or to push the array in during freehand insertion.

*Available only in kit configuration CI-4508*
HiFocus 1j Electrode Instrumentation

CI-4252 - Electrode Claw Tool
Reusable tool used after electrode insertion to stabilize the electrode array in place while inserting the electrode.

MRI Material for HiRes 90K Advantage

CI-7521 - Magnetic Resonance Imaging (MRI) for the HiRes 90K and HiRes 90K Advantage CI
Guide for MRI use with the HiRes 90K implant family, including instructions for magnet removal and replacement.

CI-1412 - HiRes 90K Replacement Magnet
The replacement magnet is provided in a sterile peel pack. It is used when a patient has had the original magnet removed for an MRI. The Magnetic Resonance Imaging (MRI) for the HiRes 90K brochure is included.

CI-1410 - HiRes 90K Magnet Insert Dummy
The single-use insert dummy is used in cases where the HiRes 90K Magnet is removed for an extended period of time to allow for an MRI. The titanium dummy, provided in a sterile peel pack, is used to fill the cavity that houses the magnet. This prevents fibrous tissue growth in the cavity. The Magnetic Resonance Imaging (MRI) for the HiRes 90K brochure is included.