SIZE SELECTION AND ASSEMBLY

Size Selection
- Select the appropriate size “Pusher” and “Gripper”.
- Pusher size = inner diameter (Head size).
- Gripper size = outer diameter (Shell size).

Assembly
- Orientate the Pusher and Gripper as shown.
- Align the Pusher with the central hole of the Gripper and firmly press together.
- Ensure that the Pusher arms are aligned with the gaps between the Gripper legs.

Figure 1. PINNACLE Ceramic Liner Inserter instrument tray

Figure 2. Assemble Pusher and Gripper
ASSEMBLY TO CERAMIC LINER

Assemble to Ceramic Liner
- Place the subassembly on the ceramic liner with the gripper legs capturing the outer edge.

Verify
- To ensure liner alignment and verify that all gripper legs are firmly fixed and flush to the liner, this may require significant effort to clip on.

**Note:** Ensure the liner is held firmly during assembly.

**Note:** An audible click may be present during assembly.
INTRODUCTION TO THE WOUND AND EXPOSURE

- Carefully advance the liner into the incision and align the face of the gripper to the face of the implanted acetabular cup.

- Care should be taken to avoid soft tissue or bony impingement.

- Ensure all three gripper legs are in contact with the face of the acetabular shell.

- Should any bony or soft tissue impingement occur, remove the device from the wound and modify the retractor positions to improve exposure.

Note: Lack of soft tissue and bony impingement may be confirmed by rotating the Liner Inserter freely on the Cup.
DEPLOYMENT AND RETRIEVAL

Deployment
- Using thumb or fingers manually deploy the device by firmly depressing the central button “A”.

Retrieval
- Carefully retrieve the device from the wound.
- Palpate the liner to confirm proper taper alignment and seating in the cup.

Note: A small amount of canter is tolerable as the liner will self-right on final impaction.

Taper Engagement
- Impact the liner as per the standard PINNACLE technique in order to fully seat the liner.

Note: No impaction should be used when deploying the device; Do not attempt to fully engage the taper locking mechanism by striking the Liner Inserter.

When the liner is released from the gripper and is “flush” with the face of the shell an audible cue should be apparent.

Figure 7. Deploy the Ceramic Liner to the Acetabular Cup
Figure 8. Impact the Ceramic Liner to engage the VIP Taper
DEFLECTED CUPS: DECISION MAKING

Excessive cup deflection, as seen with young patients or under reamed bone, may present itself as considerable resistance to manual deployment of the liner inserter.

In such cases the surgeon may encounter several scenarios outside the expected usage:

- Non deployment
- Partial deployment
- Deployment resulting in a cantered liner

The recommended course of action below can be followed:

- Impaction should not be used to facilitate the deployment.
- The liner inserter and ceramic liner should be carefully removed from the wound.
- The acetabular cup should be removed from the wound
- The acetabulum should be enlarged (i.e. line-to-line) while ensuring adequate press-fit is achieved.
- Repeat the previous steps as normal.
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Cat No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2220-00-230</td>
<td>PINNACLE Ceramic Liner Inserter Case</td>
</tr>
<tr>
<td>2218-10-028</td>
<td>PINNACLE Ceramic Liner Inserter 28 mm Pusher</td>
</tr>
<tr>
<td>2218-10-032</td>
<td>PINNACLE Ceramic Liner Inserter 32 mm Pusher</td>
</tr>
<tr>
<td>2218-10-036</td>
<td>PINNACLE Ceramic Liner Inserter 36 mm Pusher</td>
</tr>
<tr>
<td>2218-10-044</td>
<td>PINNACLE Ceramic Liner Inserter 44 mm Gripper</td>
</tr>
<tr>
<td>2218-10-046</td>
<td>PINNACLE Ceramic Liner Inserter 46 mm Gripper</td>
</tr>
<tr>
<td>2218-10-048</td>
<td>PINNACLE Ceramic Liner Inserter 48 mm Gripper</td>
</tr>
<tr>
<td>2218-10-050</td>
<td>PINNACLE Ceramic Liner Inserter 50 mm Gripper</td>
</tr>
<tr>
<td>2218-10-052</td>
<td>PINNACLE Ceramic Liner Inserter 52 mm Gripper</td>
</tr>
<tr>
<td>2218-10-054</td>
<td>PINNACLE Ceramic Liner Inserter 54 mm Gripper</td>
</tr>
<tr>
<td>2218-10-056</td>
<td>PINNACLE Ceramic Liner Inserter 56 mm Gripper</td>
</tr>
<tr>
<td>2218-10-058</td>
<td>PINNACLE Ceramic Liner Inserter 58 mm Gripper</td>
</tr>
<tr>
<td>2218-10-060</td>
<td>PINNACLE Ceramic Liner Inserter 60 mm Gripper</td>
</tr>
<tr>
<td>2218-10-062</td>
<td>PINNACLE Ceramic Liner Inserter 62 mm Gripper</td>
</tr>
<tr>
<td>2218-10-064</td>
<td>PINNACLE Ceramic Liner Inserter 64 mm Gripper</td>
</tr>
<tr>
<td>2218-10-066</td>
<td>PINNACLE Ceramic Liner Inserter 66 mm Gripper</td>
</tr>
</tbody>
</table>