ARIA
Expandable PLIF Cage System

Implants - Instruments
Surgical Technique

OSIMPLANT
Spine Restoration Technology
Introduction

The anatomical design and aggressive tooth pattern prevents migration of the implant.

Aria offers a very firm grip post expansion due to its expandable design.

Aria's optimized design offers an optimal graft space.

Aria Expandable PLIF Cage provides an easy fixation due to its ergonomic hand tools.
Bullet Tip design provides an easy penetration.

1 mm parallel increase in height after post-expansion helps preserve the anatomic angle and the lordosis.

Pyramidal teeth design increases the hold of the implant.

Parallel, 4 degree and 8 degree designs offer variety.

**ARIA’s holder and driver** are designed as one small, compact and functional hand tool to prevent multiple hand tool usage.

The implant holder and the implant expander is the same hand tool for a more ergonomic usage.

L shaped design prevents the hand tool to block the surgical area and improves the sight of the surgeon.
## Implants

### C-ARM View

The tantalum markers and the titanium system provides a clear C-ARM scan with all necessary boundaries.

### Aria Cage

Aria is manufactured from PEEK OPTIMA® with a Ti6Al4V ELI body. 9 different sizes and 3 different angles offer variety.

<table>
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<th>Description</th>
<th>Size(WxL)</th>
<th>Height(H)</th>
<th>Parallel</th>
<th>Lordosis</th>
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Instruments

Aria Implant Removal

ARA-IR-8006

Aria Graft Insertion Pusher

ARA-GIP-8084

Aria Graft Insertion Cannula

ARA-GIC-8053

Aria Hammer

333-HM

Aria Trial Parallel

H7-ARA-TR0-8044
H8-ARA-TR0-8045
H9-ARA-TR0-8046
H10-ARA-TR0-8047
H11-ARA-TR0-8048
H12-ARA-TR0-8049
H13-ARA-TR0-8050
H14-ARA-TR0-8051
H15-ARA-TR0-8052
Aria Implant Caddies
ARA-IC-8030

Aria Trial Caddies
ARA-TC-8040
Containers

Aria Instrument Case
ARA-CAS-8000

Aria Instrument Container
ARA-CO-8050
Aria Container Lid
111-LID
Surgical Technique

ARIA PRE-IMPLANT PREPARATION

Aria Shaver

After the necessary surgical preparations and procedures are performed, the shaver is used to shave the path of the implant. The tip of this hand tool can also be used as a trial implant to determine the size of the implant (Figure 1).
ARIA Dura Retractor is used for retracting the nerve from the path of the trial/implant in order to secure it from any damage (Figure 2).
Aria Trial Holder

Aria Trial Holder is used to insert the trials which is used for determining the size of the implant. Starting from the smallest trial sequentially increase the trial sizes and determine the appropriate implant size. The trial should fit tight inside the vertebrae (Figure 3).

To insert the trial to the hand tool, turn the handle clockwise.

(Figure 3: ARA-TH-8002)
After testing the first trial you can use the second trial holder to insert the second trial. This way you can visualize how the implants will hold together (Figure 4).
Position the implant and holder in the correct alignment and carefully insert them into the distracted segment. The PLIF CAGE is impacted using the mallet and the Aria Hammer (Figure 5).

To insert the implant to the hand tool, turn the handle displayed in red clockwise.
After inserting the cage in the interbody space, turn the handle until the hand tool cannot turn anymore. This process ends when the titanium body is completely opened. You can confirm this when the hand tool stops turning (Figure 6).

(Figure 6: ARA-II-8016)

To expand the implant, turn the handle displayed in red counter clockwise.
**Surgical Technique**

**GRAFT INSERTION**

**Aria Graft Insertion Cannula-Pusher**

First place the Cannula on to the implants graft gap and push the graft down the Cannula using the Graft Pusher as shown (Figure 7).
ARIA IMPLANT REMOVAL

Aria Implant Removal

Start by inserting the Aria Implant Removal Tool inside the cage. Use the Aria Hammer to force the implant out of the disc space as shown (Figure 8).