

AVS® ARIA™

Product Overview

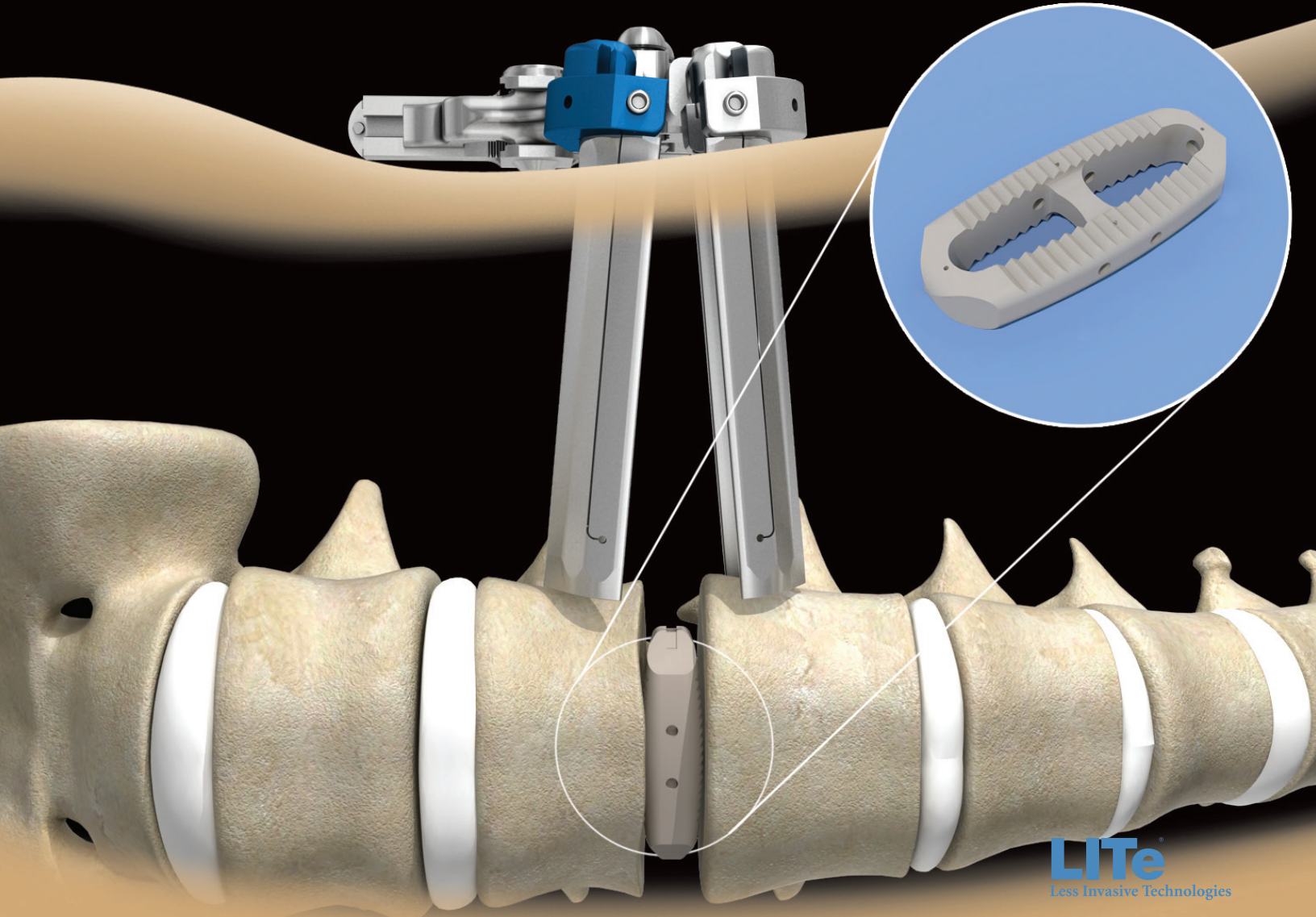


Table of Contents

| | |
|--------------------------------|-----|
| Indication | 3 |
| Adaptive Sizing | 4-5 |
| Wedge Nose Design | 6 |
| Graft Volumes | 7 |
| Efficient Fixation | 8 |
| Lordotic Height Descriptions | 9 |
| Anatomical Height Descriptions | 10 |
| Visualization | 11 |

Indications

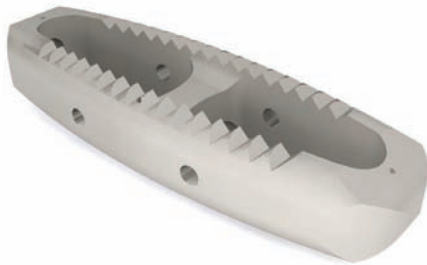
The Stryker Spine AVS® ARIA™ PEEK Spacers are intervertebral body fusion devices indicated for use with autogenous bone graft in patients with degenerative disc disease (DDD) at one level or two contiguous levels from L2 to S1.

DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. The DDD patients may also have up to Grade I spondylolisthesis at the involved level(s). These patients should be skeletally mature and have six months of nonoperative therapy.

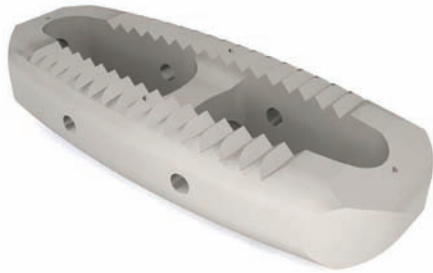
The AVS® ARIA™ PEEK Spacers are intended to be used with supplemental fixation systems that have been cleared for use in the lumbosacral spine.

Adaptive Sizing

The various AVS® ARIA™ sizing options available are designed to enable more precise anatomic height and lordotic restoration in a variety of patient populations.



| 18mm Wide AVS® ARIA™ Implants | | | |
|-------------------------------|---|----------------------|---|
| Reference Number | Description (Height x Length x Lordosis - Width) | Reference Number | Description (Height x Length x Lordosis - Width) |
| Lordosis - 0° | | Lordosis - 8° | |
| Length 40mm | | | |
| 48750008 | 8x40x0°-18 | 48751008 | 8x40x8°-18 |
| 48750010 | 10x40x0°-18 | 48751010 | 10x40x8°-18 |
| 48750012 | 12x40x0°-18 | 48751012 | 12x40x8°-18 |
| 48750014 | 14x40x0°-18 | 48751014 | 14x40x8°-18 |
| 48750016 | 16x40x0°-18 | 48751016 | 16x40x8°-18 |
| 48750018 | 18x40x0°-18 | 48751018 | 18x40x8°-18 |
| Length 45mm | | | |
| 48750108 | 8x45x0°-18 | 48751108 | 8x45x8°-18 |
| 48750110 | 10x45x0°-18 | 48751110 | 10x45x8°-18 |
| 48750112 | 12x45x0°-18 | 48751112 | 12x45x8°-18 |
| 48750114 | 14x45x0°-18 | 48751114 | 14x45x8°-18 |
| 48750116 | 16x45x0°-18 | 48751116 | 16x45x8°-18 |
| 48750118 | 18x45x0°-18 | 48751118 | 18x45x8°-18 |
| Length 50mm | | | |
| 48750208 | 8x50x0°-18 | 48751208 | 8x50x8°-18 |
| 48750210 | 10x50x0°-18 | 48751210 | 10x50x8°-18 |
| 48750212 | 12x50x0°-18 | 48751212 | 12x50x8°-18 |
| 48750214 | 14x50x0°-18 | 48751214 | 14x50x8°-18 |
| 48750216 | 16x50x0°-18 | 48751216 | 16x50x8°-18 |
| 48750218 | 18x50x0°-18 | 48751218 | 18x50x8°-18 |
| Length 55mm | | | |
| 48750308 | 8x55x0°-18 | 48751308 | 8x55x8°-18 |
| 48750310 | 10x55x0°-18 | 48751310 | 10x55x8°-18 |
| 48750312 | 12x55x0°-18 | 48751312 | 12x55x8°-18 |
| 48750314 | 14x55x0°-18 | 48751314 | 14x55x8°-18 |
| 48750316 | 16x55x0°-18 | 48751316 | 16x55x8°-18 |
| 48750318 | 18x55x0°-18 | 48751318 | 18x55x8°-18 |
| Length 60mm | | | |
| 48750408 | 8x60x0°-18 | 48751408 | 8x60x8°-18 |
| 48750410 | 10x60x0°-18 | 48751410 | 10x60x8°-18 |
| 48750412 | 12x60x0°-18 | 48751412 | 12x60x8°-18 |
| 48750414 | 14x60x0°-18 | 48751414 | 14x60x8°-18 |
| 48750416 | 16x60x0°-18 | 48751416 | 16x60x8°-18 |
| 48750418 | 18x60x0°-18 | 48751418 | 18x60x8°-18 |



| 22mm Wide AVS® ARIA™ Implants | | | |
|-------------------------------|---|------------------|---|
| Reference Number | Description (Height x Length x Lordosis - Width) | Reference Number | Description (Height x Length x Lordosis - Width) |
| Lordosis - 0° | | Lordosis - 8° | |
| Length 40mm | | | |
| 48752008 | 8x40x0°-22 | 48753008 | 8x40x8°-22 |
| 48752010 | 10x40x0°-22 | 48753010 | 10x40x8°-22 |
| 48752012 | 12x40x0°-22 | 48753012 | 12x40x8°-22 |
| 48752014 | 14x40x0°-22 | 48753014 | 14x40x8°-22 |
| 48752016 | 16x40x0°-22 | 48753016 | 16x40x8°-22 |
| 48752018 | 18x40x0°-22 | 48753018 | 18x40x8°-22 |
| Length 45mm | | | |
| 48752108 | 8x45x0°-22 | 48753108 | 8x45x8°-22 |
| 48752110 | 10x45x0°-22 | 48753110 | 10x45x8°-22 |
| 48752112 | 12x45x0°-22 | 48753112 | 12x45x8°-22 |
| 48752114 | 14x45x0°-22 | 48753114 | 14x45x8°-22 |
| 48752116 | 16x45x0°-22 | 48753116 | 16x45x8°-22 |
| 48752118 | 18x45x0°-22 | 48753118 | 18x45x8°-22 |
| Length 50mm | | | |
| 48752208 | 8x50x0°-22 | 48753208 | 8x50x8°-22 |
| 48752210 | 10x50x0°-22 | 48753210 | 10x50x8°-22 |
| 48752212 | 12x50x0°-22 | 48753212 | 12x50x8°-22 |
| 48752214 | 14x50x0°-22 | 48753214 | 14x50x8°-22 |
| 48752216 | 16x50x0°-22 | 48753216 | 16x50x8°-22 |
| 48752218 | 18x50x0°-22 | 48753218 | 18x50x8°-22 |
| Length 55mm | | | |
| 48752308 | 8x55x0°-22 | 48753308 | 8x55x8°-22 |
| 48752310 | 10x55x0°-22 | 48753310 | 10x55x8°-22 |
| 48752312 | 12x55x0°-22 | 48753312 | 12x55x8°-22 |
| 48752314 | 14x55x0°-22 | 48753314 | 14x55x8°-22 |
| 48752316 | 16x55x0°-22 | 48753316 | 16x55x8°-22 |
| 48752318 | 18x55x0°-22 | 48753318 | 18x55x8°-22 |
| Length 60mm | | | |
| 48752408 | 8x60x0°-22 | 48753408 | 8x60x8°-22 |
| 48752410 | 10x60x0°-22 | 48753410 | 10x60x8°-22 |
| 48752412 | 12x60x0°-22 | 48753412 | 12x60x8°-22 |
| 48752414 | 14x60x0°-22 | 48753414 | 14x60x8°-22 |
| 48752416 | 16x60x0°-22 | 48753416 | 16x60x8°-22 |
| 48752418 | 18x60x0°-22 | 48753418 | 18x60x8°-22 |

Wedge Nose Design

The ergonomically designed, unique wedge nose of the AVS® ARIA™ implant allows for **self distraction upon insertion**, which is designed to allow the implants to be inserted into small disc spaces. In addition, the ergonomic shape allows for safe navigation around neural tissues.

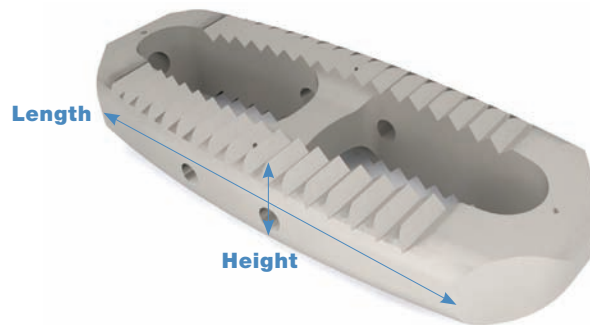


| AVS® ARIA™ Wedge Nose Heights in 18mm Wide Implants | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Implant Height | 40mm Length | 45mm Length | 50mm Length | 55mm Length | 60mm Length |
| | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle |
| 8mm | 5.2mm | 5.1mm | 5.0mm | 4.9mm | 4.8mm |
| 10mm | 7.1mm | 7.0mm | 6.9mm | 6.8mm | 6.7mm |
| 12mm | 7.3mm | 7.0mm | 6.9mm | 6.8mm | 6.7mm |
| 14mm | 9.2mm | 8.9mm | 8.6mm | 8.4mm | 8.2mm |
| 16mm | 11.1mm | 10.8mm | 10.5mm | 10.3mm | 10.1mm |
| 18mm | 13.4mm | 13.1mm | 12.4mm | 10.8mm | 10.6mm |
| | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle |
| 8mm | 6.5mm | 6.5mm | 6.5mm | 6.5mm | 6.5mm |
| 10mm | 7.7mm | 7.7mm | 7.6mm | 7.6mm | 7.6mm |
| 12mm | 8.2mm | 8.1mm | 8.0mm | 7.9mm | 7.8mm |
| 14mm | 10.1mm | 10.0mm | 9.9mm | 9.8mm | 9.7mm |
| 16mm | 12.0mm | 11.9mm | 11.8mm | 11.7mm | 11.6mm |
| 18mm | 14.0mm | 13.8mm | 13.7mm | 13.6mm | 13.5mm |

| AVS® ARIA™ Wedge Nose Heights in 22mm Wide Implants | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Implant Height | 40mm Length | 45mm Length | 50mm Length | 55mm Length | 60mm Length |
| | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle |
| 8mm | 5.8mm | 5.7mm | 5.6mm | 5.5mm | 5.4mm |
| 10mm | 7.6mm | 7.5mm | 7.4mm | 7.3mm | 7.2mm |
| 12mm | 8.1mm | 7.8mm | 7.6mm | 7.4mm | 7.2mm |
| 14mm | 10.0mm | 9.7mm | 9.5mm | 9.3mm | 9.1mm |
| 16mm | 12.0mm | 11.7mm | 11.4mm | 11.2mm | 11.0mm |
| 18mm | 13.9mm | 13.6mm | 13.3mm | 13.0mm | 12.9mm |
| | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle |
| 8mm | 6.5mm | 6.4mm | 6.4mm | 6.4mm | 6.4mm |
| 10mm | 7.9mm | 7.8mm | 7.7mm | 7.7mm | 7.6mm |
| 12mm | 8.3mm | 8.2mm | 8.0mm | 7.9mm | 7.8mm |
| 14mm | 10.2mm | 10.0mm | 9.9mm | 9.8mm | 9.7mm |
| 16mm | 12.1mm | 11.9mm | 11.8mm | 11.7mm | 11.6mm |
| 18mm | 14.0mm | 13.8mm | 13.7mm | 13.6mm | 13.5mm |

Graft Volumes

One of the truly distinguishing features of the AVS® ARIA™ implant is the large internal graft chamber. This directly translates into a large internal graft volume, **optimized to provide maximum superior/inferior surface area contact between the bone graft and the endplate.** While the use of bone graft is optional, large graft volumes may potentially enhance fusion rates.



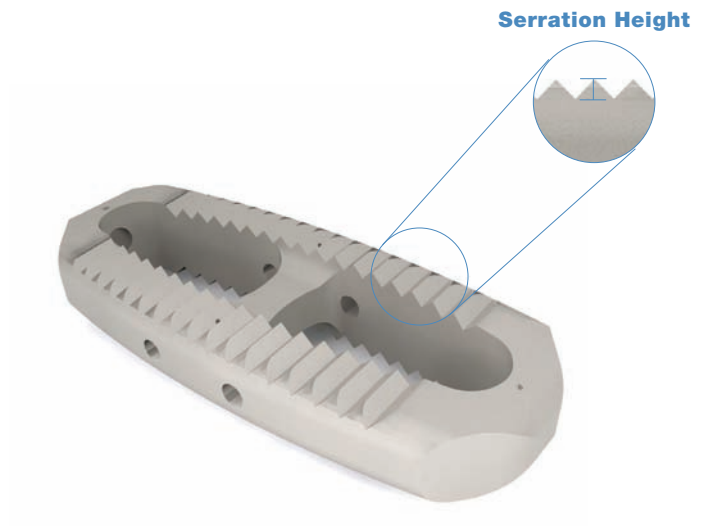
| AVS® ARIA™ Graft Volumes (cc) | | | | | |
|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Implant Height | 40mm Length | 45mm Length | 50mm Length | 55mm Length | 60mm Length |
| | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle | 0° Lordotic Angle |
| 8mm | 1.6 | 1.9 | 2.3 | 2.6 | 3.0 |
| 10mm | 2.0 | 2.4 | 2.9 | 3.3 | 3.8 |
| 12mm | 2.4 | 2.8 | 3.3 | 3.9 | 4.4 |
| 14mm | 2.8 | 3.4 | 4.0 | 4.6 | 5.2 |
| 16mm | 3.2 | 3.9 | 4.6 | 5.3 | 6.0 |
| 18mm | 3.6 | 4.4 | 5.2 | 5.8 | 6.8 |
| | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle | 8° Lordotic Angle |
| 8mm | 1.4 | 1.7 | 2.1 | 2.4 | 2.7 |
| 10mm | 1.8 | 2.2 | 2.6 | 3.0 | 3.4 |
| 12mm | 2.2 | 2.6 | 3.1 | 3.5 | 4.0 |
| 14mm | 2.6 | 3.1 | 3.7 | 4.2 | 4.8 |
| 16mm | 3.0 | 3.6 | 4.3 | 5.0 | 5.6 |
| 18mm | 3.4 | 4.2 | 4.9 | 5.5 | 6.4 |

Note: The graft volumes are the same for 18mm and 22mm wide AVS® ARIA™ implants.

Efficient Fixation

Each isometric serration provides immediate bidirectional fixation to help resist subsidence.

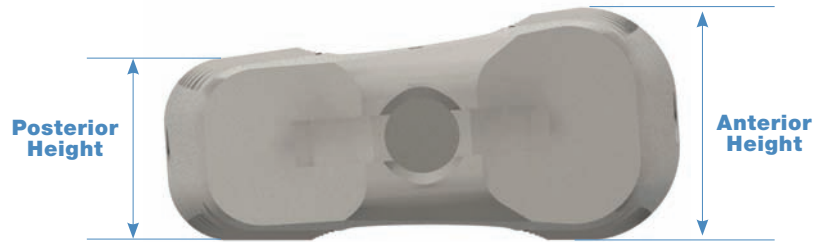
| Serration Dimensions | | |
|----------------------|----------------------|-------------------|
| Implant Height | Height of Serrations | |
| | 0° Lordotic Angle | 8° Lordotic Angle |
| 40mm | 0.8mm | 0.9mm |
| 45mm | 0.9mm | 1mm |
| 50mm | 1mm | 1.1mm |
| 55mm | 1.1mm | 1.2mm |
| 60mm | 1.2mm | 1.3mm |



Lordotic Height Descriptions

One of the primary purposes of the AVS® ARIA™ implants is to **restore natural sagittal alignment**. The lordotic AVS® ARIA™ implants are designed to restore 8° of lordosis.

It is important to know the height differences between the anterior and posterior aspects in the lordotic implants. The height differences can be calculated by subtracting the Posterior height from the Anterior height. Note that the length and width of any implant does not influence the height difference, and there is no anterior-posterior height difference in implants with 0° of lordosis.

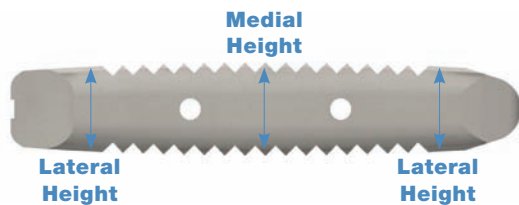


| Anterior - Posterior Height Differences in 8° Lordotic Implants | | | |
|---|-----------------|------------------|-------------------|
| Implant Height | Anterior Height | Posterior Height | Height Difference |
| 8mm | 8mm | 6mm | 2mm |
| 10mm | 10mm | 8mm | 2mm |
| 12mm | 12mm | 10mm | 2mm |
| 14mm | 14mm | 12mm | 2mm |
| 16mm | 16mm | 14mm | 2mm |
| 18mm | 18mm | 16mm | 2mm |

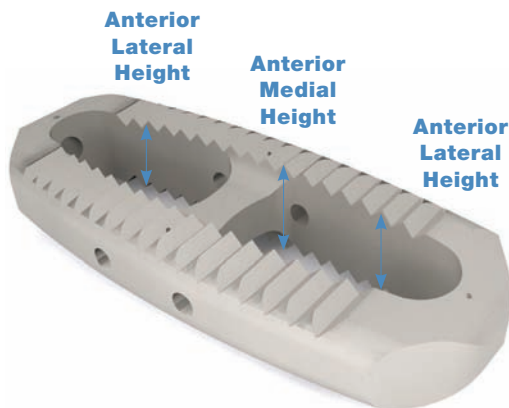
Anatomical Height Descriptions

The anatomical shape of the AVS® ARIA™ implant is designed to provide **maximum surface area contact and to promote structural stability**, to facilitate placement and match the endplates for optimal engagement.

It is important to know the height differences between the medial and lateral aspects in the lordotic and non-lordotic implants. The height differences can be calculated by subtracting the Lateral height from the Medial height. Note that the length of any implant does not influence the height difference. Additionally, the width of any implant does not influence the height difference in implants with 8° of lordosis.



| Medial - Lateral Height Differences in 0° Lordotic Implants | | | |
|---|---------------|----------------|-------------------|
| Implant Height | Medial Height | Lateral Height | Height Difference |
| Width 18mm | | | |
| 8mm | 8mm | 7mm | 1mm |
| 10mm | 10mm | 9mm | 1mm |
| 12mm | 12mm | 10mm | 2mm |
| 14mm | 14mm | 12mm | 2mm |
| 16mm | 16mm | 14mm | 2mm |
| 18mm | 18mm | 16mm | 2mm |
| Width 22mm | | | |
| 8mm | 8mm | 7mm | 1mm |
| 10mm | 10mm | 9mm | 1mm |
| 12mm | 12mm | 10mm | 2mm |
| 14mm | 14mm | 12mm | 2mm |
| 16mm | 16mm | 14mm | 2mm |
| 18mm | 18mm | 16mm | 2mm |

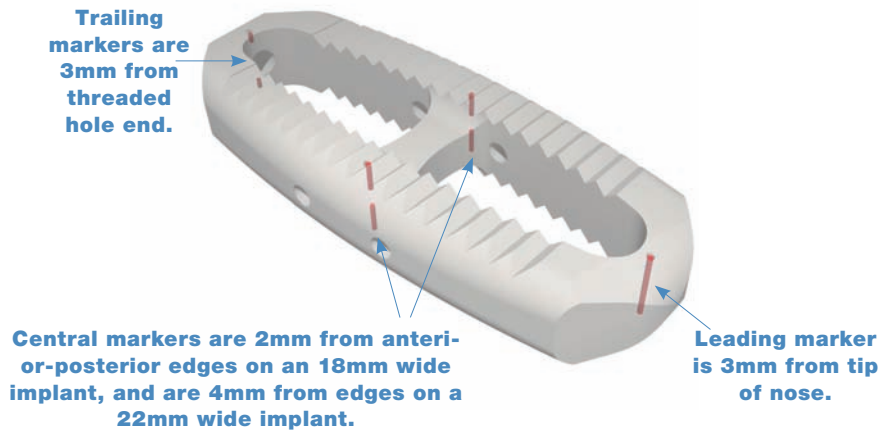


| Medial - Lateral Height Differences in 8° Lordotic Implants | | | |
|---|------------------------|-------------------------|----------------------------|
| Implant Height | Anterior Medial Height | Anterior Lateral Height | Anterior Height Difference |
| 8mm | 8mm | 7.7mm | 0.3mm |
| 10mm | 10mm | 9mm | 1mm |
| 12mm | 12mm | 10mm | 2mm |
| 14mm | 14mm | 12mm | 2mm |
| 16mm | 16mm | 14mm | 2mm |
| 18mm | 18mm | 16mm | 2mm |

Visualization

Each AVS® ARIA™ implant has seven tantalum markers strategically embedded in each implant to help surgeons identify the **position and orientation** of the AVS® ARIA™ implants once inserted.

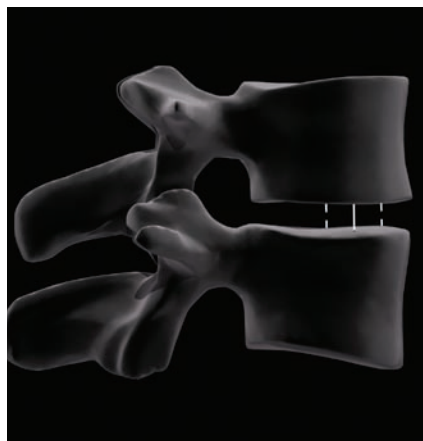
Two markers are positioned above and below the threaded hole of the implant, and one marker is embedded at the tip of the wedge nose. In addition, four markers are positioned centrally, two on the anterior side and on the posterior side of the implant. All seven markers are oriented in the same vertical (superior/inferior) direction.



| Tantalum Marker Dimensions in 0° Lordotic Implants | | | |
|--|------------------------|-------------------------|-----------------------|
| Implant Height | Central Markers Length | Trailing Markers Length | Leading Marker Length |
| 8mm | 2.5mm | 1mm | 4mm |
| 10mm | 3mm | 1mm | 5mm |
| 12mm | 4mm | 1mm | 5mm |
| 14mm | 5mm | 2.5mm | 6mm |
| 16mm | 6mm | 2.5mm | 8mm |
| 18mm | 7mm | 2.5mm | 8mm |

| Tantalum Marker Dimensions in 8° Lordotic Implants | | | | |
|--|---------------------------------|----------------------------------|-------------------------|-----------------------|
| Implant Height | Anterior Central Markers Length | Posterior Central Markers Length | Trailing Markers Length | Leading Marker Length |
| 8mm | 2.5mm | 1mm | 1mm | 4mm |
| 10mm | 3mm | 1mm | 1mm | 5mm |
| 12mm | 4mm | 3mm | 1mm | 5mm |
| 14mm | 5mm | 4mm | 1mm | 6mm |
| 16mm | 6mm | 5mm | 1mm | 8mm |
| 18mm | 7mm | 6mm | 1mm | 8mm |

For a Proper Insertion



Lateral View



A/P View

Reconstructive

Hips
Knees
Trauma & Extremities
Joint Preservation
Orthobiologics

Medical & Surgical

Power Tools & Surgical Accessories
Image Guided Navigation
Endoscopy & Arthroscopy
Integrated Communications
Beds, Stretchers & EMS
Sustainability Solutions

Neurotechnology & Spine

Craniomaxillofacial
Interventional Spine
Neurosurgical, Spine & ENT
Neurovascular
Spinal Implants

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