# CALVARY SPINE

*Products Designed By Surgeons For Surgeons*

## PEEK-OPTIMA® LUMBER INTER-BODY SPACERS

### Calvary Lumbar Interbody Fusion Devices

**PEEK-OPTIMA** polymer with proven long-term biocompatibility and a modulus of elasticity between cortical and cancellous bone.

**Surface Ridges:** Resist implant migration while providing a broad surface area to prevent subsidence. Central I-beam Design prevents de-formation during placement, and provides spacious compartments for bone graft.

**Radiographic Markers:** Embedded tantalum pins precisely reveal the implant position on x-ray without obscuring the view of the healing fusion.

**Surgeon Flexibility:** Straight and crescent options are included in a single case with intuitive and ergonomic insertion instruments designed for safe and efficient implantation.

**Range of Sizes:** Available in 7mm - 15mm anterior heights in standard 1mm increments. 8 degrees of lordosis provides for restoration of normal sagittal alignment when placed anteriorly, and for coronal correction when placed asymmetrically. Offered in two footprints for optimal flexibility:

### Crescent Lumbar Spacer:

Curved contour facilitates placement at the periphery of the disk space for contact with the most dense endplate bone. 10 and 25 degree insertion angles allow flexibility in surgical approach to minimize neural retraction. Tapered ends facilitate insertion and prevent endplate violation.

### Straight Lumbar Spacer:

Rectangular shape suited for oblique placement for single implant and parallel bilateral placement for two implants. Dimensions 11mm x 30mm sizing allows for MIS insertion through tubes, minimal neural retraction, and superior endplate surface area contact.

## PRESENTED TO HOSPITALS AT EXCEPTIONAL VALUE

Contact Calvary at 703-407-9295
or visit www.calvaryspine.com for additional information.

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# Lumbar Interbody Fusion Device

## Product Specifications

***Calvary's TLIF/PLIF*** lumbar interbody fusion cages are implanted from a posterior approach. Placed in conjunction with bilateral pedicle screws, the cages stabilize the motion segment for successful fusion healing. The interbody cages are used to restore physiologic disk space height, provide for indirect foraminal decompression and augment lumbar lordosis. The implants have teeth on both superior and inferior surfaces to prevent migration and two large openings to accommodate bone graft material in order to facilitate bony integration.

Calvary offers two implant footprint options for surgeon flexibility: 1. The Petra bullet-nose design provides optimal self-distraction with eased insertion and the greatest protection against endplate disruption. The rectangular bullet-nose design allows for unilateral placement obliquely across the interspace, or bilateral placement of two implants parallel to each other in the sagittal plane, and; 2. The Petra crescent footprint provides for ideal placement along the densest bone at the periphery of the vertebral endplate to optimize fixation strength and prevent subsidence. Ten degree and twenty-five degree offset insertion angles within the crescent implant give the surgeon the flexibility to select the optimal trajectory for implant placement. By placing the implant with either footprint eccentrically in the coronal plane, correction of scoliosis is readily achieved with segmental compression of pedicle screws on the convexity. Tantalum markers on each end of the implants verify the cage location on radiographs, without obscuring the view of new bone formation.

## Indications

***Calvary's TLIF/PLIF*** lumbar interbody fusion cages are indicated for intervertebral body fusion procedures in skeletally mature patents with degenerative disc disease (DDD) of the lumbar spine at one or two contiguous levels from L2--S1. Degenerative disc disease is defined as discogenic back pain with degeneration of the disc confirmed by history and radiographic studies. These DDD patents may have up to Grade 1 spondylolisthesis or retrolisthesis at the involved level(s). Calvary's TLIF/PLIF lumbar interbody fusion cages are to be used with supplemental pedicle screw fixation. Patents should have at least (6) months of non--operative treatment prior to treatment with an intervertebral cage.

## Dimensions:

| ***Crescent*** | | ***Straight*** |
|---|---|---|
| A/P = 27mm<br>M/L = 13mm<br>H = 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, & 15mm<br>Ridges: 1.25mm pitch x .67mm deep<br>90mm$^2$ in contact with the endplates | | A/P = 30mm<br>M/L = 11mm<br>H = 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm<br>Ridges: 1.25mm pitch x .67mm deep<br>90mm$^2$ in contact with the endplates |