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Cervical Solutions

# Optio-C®

## Anterior Cervical System

The Optio-C System provides a zero-profile cervical fusion option with a variety of materials, footprints and geometries. Combined with the elegance of DiamondTip™ screws, it creates the best fit for patient anatomy without compromising strength or security.



# Strength WITHOUT COMPROMISE

The Optio-C System is the industry's first zero-profile, modular stand-alone cervical device that offers allograft<sup>1</sup> and PEEK spacer options and delivers the strength, stability and fusion potential of a traditional anterior cervical discectomy and fusion (ACDF).<sup>2</sup>

## FUSE WITH CONFIDENCE



### Versatility

- Intervertebral spacers available in PEEK-OPTIMA® and allograft
- Three footprints combined with a wide variety of screw options allow surgeons to configure the best construct for patient anatomy
- Variable screw trajectories ease implantation above or below adjacent-level constructs



### Minimalism

- Zero-profile design reduces anterior hardware and may reduce the risk of dysphagia and dysphonia
- Integrated screw fixation eliminates the need for additional plating when addressing disease adjacent to an existing fusion
- Sleek, low-profile instrumentation minimizes exposure and simplifies the surgical procedure



### Security

- DiamondTip screw technology allows screws to be placed without pilot holes, reducing surgical steps
- Corticocancellous screw thread is designed to enhance bone purchase
- Secure antimigration system provides tactile and visual confirmation
- Pre-assembled locking mechanism secures all screws simultaneously

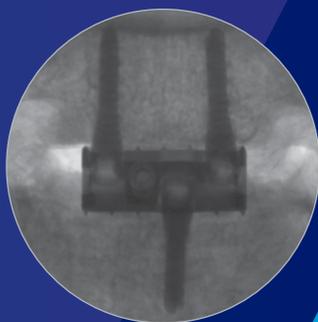


## THE OPTIO-C SYSTEM: SECURE FIXATION WITH NO PROFILE

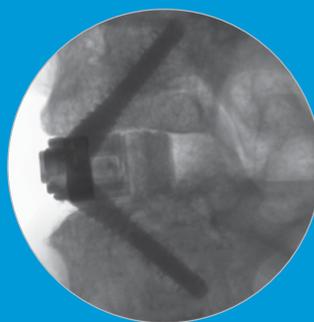
**Segmental Stability Study\*:** The images show the midline screw within the bone before and after cyclic loading (flexion/extension).

**Conclusion:** None of the screws evaluated showed signs of screw pullout or back-out, and there were no visual differences with regard to screw loosening.

Images show the pre- and post-cycling micro-CT images of specimen implanted with Optio-C allograft spacer.



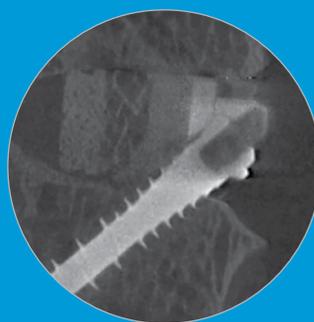
Anterior view



Lateral view



Before



After

## THE OPTIO-C SYSTEM: SECURE FIXATION WITH NO PROFILE



### PEEK or Allograft\* Spacer Options

- Three footprints to accommodate patient anatomy
- Allograft consists of cortical and cancellous bone



### Proprietary Screw Performance

- DiamondTip screw technology reduces surgical steps because screw can be placed without pilot hole<sup>2</sup>
- Corticocancellous thread designed to enhance bone purchase



### Optimize Load Sharing on Spacer

- Unique load-sharing interface designed to facilitate fusion
- Variable angle screws designed to prevent stress shielding

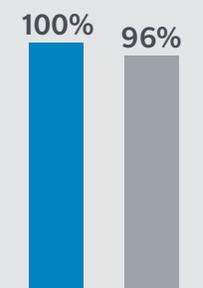


### Confidence in Locking Mechanism

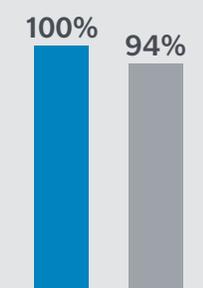
- Secure antimigration system provides tactile and visual confirmation
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## Plate Strength Equivalent to a Traditional Cervical Plate<sup>1</sup>

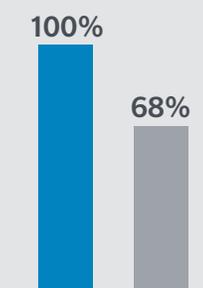
### Static Torsion



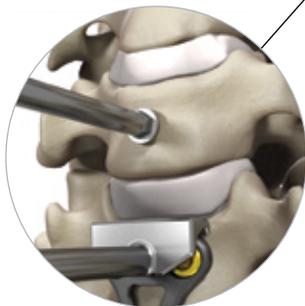
### Static Compression Bending Yield Strength



### Static Compression Bending Ultimate Strength



■ Optio-C  
■ Competitor



### Innovative Distraction Pins

- Facilitate implantation with existing hardware
- Accommodate different plate widths and thicknesses

### Minimally Invasive Procedure

- To minimize exposure, awls, drills and drivers are available in every configuration: straight, u-joint or flexible
- All drivers have a unique screw retention feature to accommodate various screw implantation angles

### Low-profile Instrumentation

- Inserter guide enhances visibility for a midline implant placement
- Drill guides designed to allow for easy site access

## Optio-C Implant Specifications

### Plate, PEEK Spacer and Allograft†

FOOTPRINT (L × W)	HEIGHT (ANTERIOR)
12mm × 14mm	6mm–12mm
14mm × 16mm	6mm–12mm
15mm × 18mm	6mm–12mm

### Screw

LENGTH	DIAMETER	TRAJECTORY
12mm (green)	3.3mm	40° variable angle ± 5° (cephalad/caudal)
14mm (magenta)	3.3mm	
16mm (gold)	3.3mm	

### Plate

WIDTH	HEIGHT
16mm	6mm–12mm (1mm increments)

†Structural allograft/autograft



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**References:**

1. Data on File. Demonstrated by mechanical testing per ASTM F1717.
2. Konz RJ, Jensen LM, Kincaid BL. Comparison of self-drilling and self-tapping cervical spine screws using ASTM F543-07. *J ASTM Int.* 2011;8(7):1–13.

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