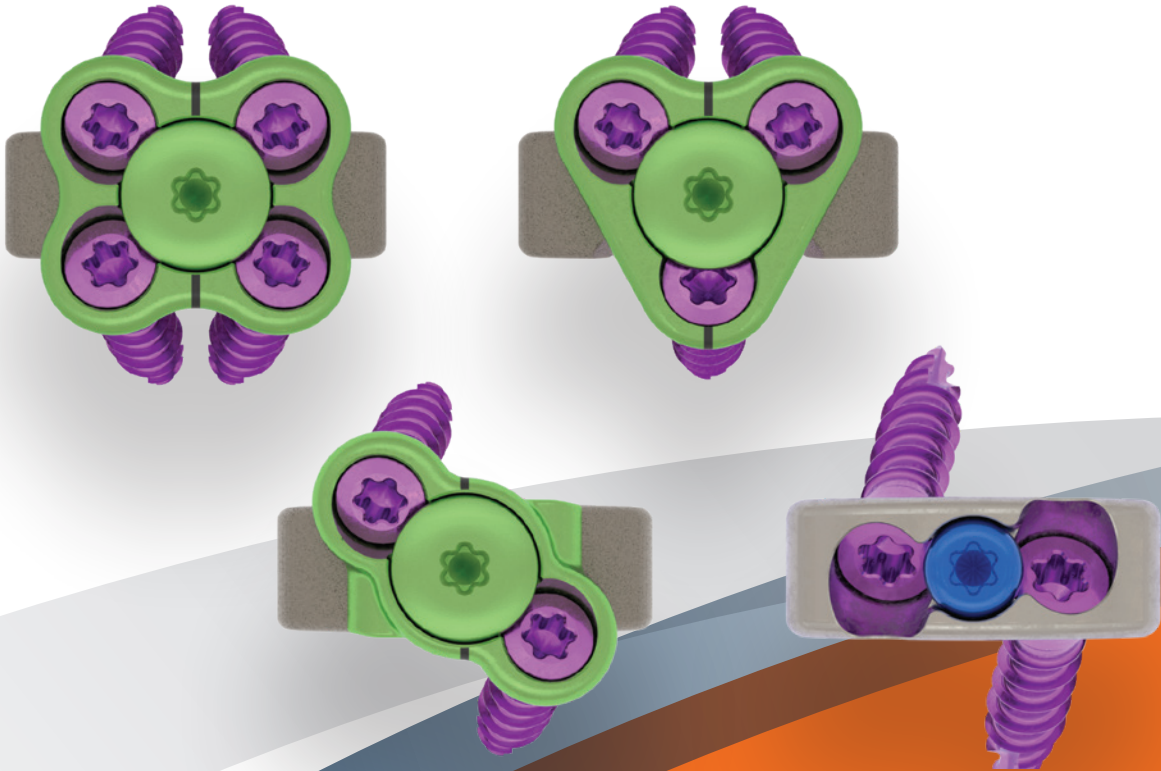




Shoreline[®] ACS



Shoreline[®] ACS

Shifting the Tide of Anterior Cervical Fixation

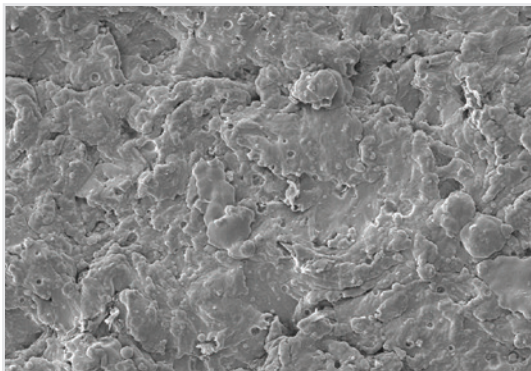
Shoreline[®] ACS

NANOMETALENE[®] TECHNOLOGY

NanoMetalene[®] is a submicron thick layer of commercially pure titanium molecularly bonded to a PEEK-OPTIMA[®] implant. Applied through a proprietary high-energy, low-temperature process called atomic fusion deposition, this titanium surface encompasses the entire implant without negatively altering the benefits of the PEEK underneath.^{1,2}

Titanium Surface Topography

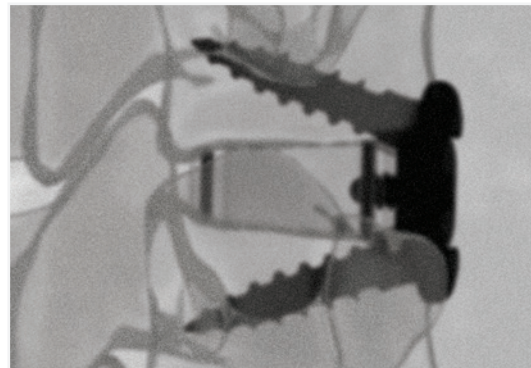
- Titanium ions molecularly bonded to every implant surface through Atomic Fusion Deposition.
- Roughened titanium micro topography.³



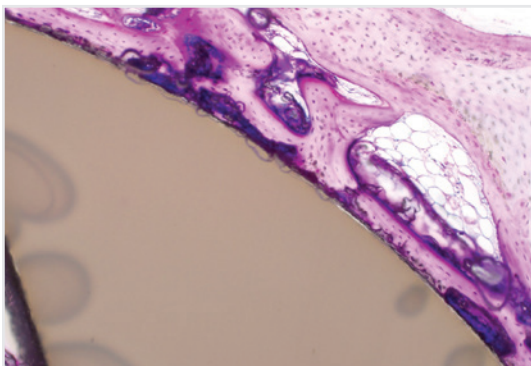
5,000x Surface Magnification³

Uncompromised PEEK Core

- Radiolucent for post-op fusion assessment.²
- Modulus of elasticity similar to cortical bone to aid bone healing.⁴



Post-op Imaging



4 week Histology NanoMetalene[®]

More prominent bone ongrowth when compared to PEEK in pre-clinical animal model⁵

Shoreline[®] ACS

DESIGN RATIONALE

The Shoreline[®] ACS is a premiere SeaSpine[®] product, providing TruProfile[®] and No-Profile cervical spinal fixation and realignment with ultimate system flexibility, complete construct modularity, and streamlined instrumentation.

SYSTEM FEATURES

Inter-Operative Choices

Shoreline[®] ACS offers four different styles of cervical construct to accommodate varying patient anatomy and pathologies, providing unparalleled inter-operative solutions that allow the surgeon to make a selection that will best suit their patient's surgical needs.

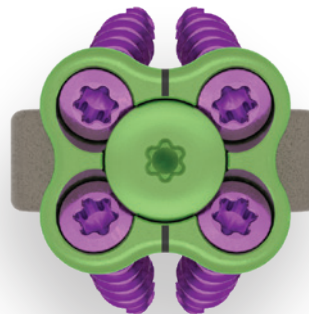
No-Profile 2-Hole Construct

Designed for adjacent level surgery



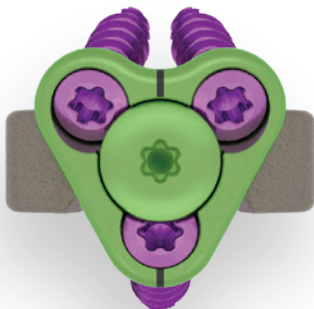
TruProfile[®] Construct w/ 4-Hole Plate

Designed for maximum fixation



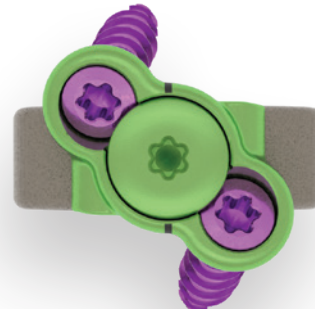
TruProfile[®] Construct w/ 3-Hole Plate

Designed for adjacent level surgery



TruProfile[®] Construct w/ 2-Hole Plate

Designed for maximum efficiency



No-Profile Interbody

SHORELINE®, NO-PROFILE INTERBODY FEATURES

- NanoMetalene® surface technology
- Titanium and PEEK construction
- Radio opaque markers
- Maximized graft aperture
 - 20% more than leading competitor¹
- Two footprint options
 - 16x14mm and 18x15mm
- 7° of lordosis
- Threaded locking cover
- Heights 6-12mm



High Performance Screws

- 3.5 and 4.0mm diameter
- Length 10-18mm
- Aggressive thread pattern
- Hexalobe drive feature
- Self-drilling, self-tapping
- Fixed and variable



TruProfile® Plates

PLATE FEATURES

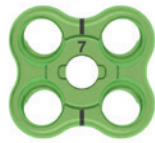
- 2, 3, 4-hole options
- 1.6mm anterior profile
- 16mm width
- Minimized adjacent level overhang
- Plate height corresponds to interbody height
- Threaded locking cover



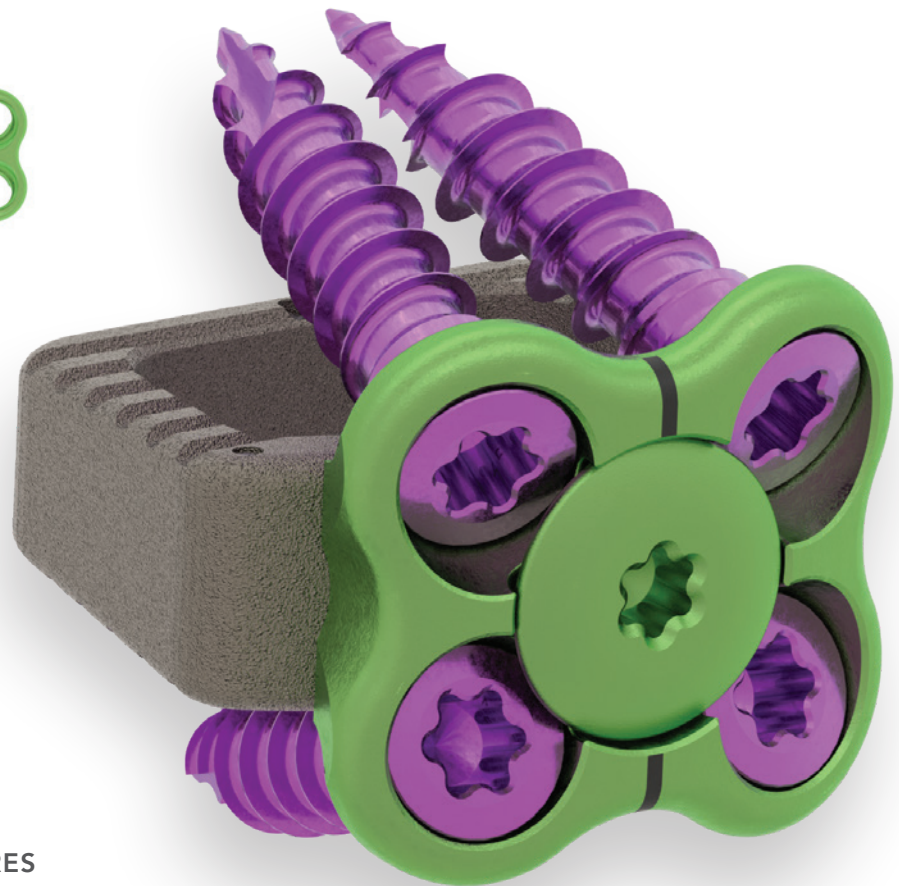
2-Hole
Plate



3-Hole
Plate



4-Hole
Plate

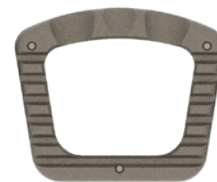


SHORELINE INTERBODY FEATURES

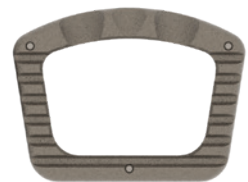
- NanoMetalene® surface technology
- PEEK-OPTIMA® core
- Radio opaque markers
- Maximized graft aperture
 - 50% more than leading competitor⁶
- Three footprint options
 - 16x14mm, 18x15mm, and 20x15mm
- Three lordotic options
 - 7°, 10°, and 15°
- Heights 5-12mm



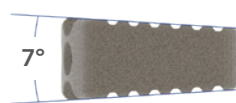
16x14mm



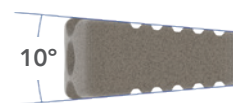
18x15mm



20x15mm



7°

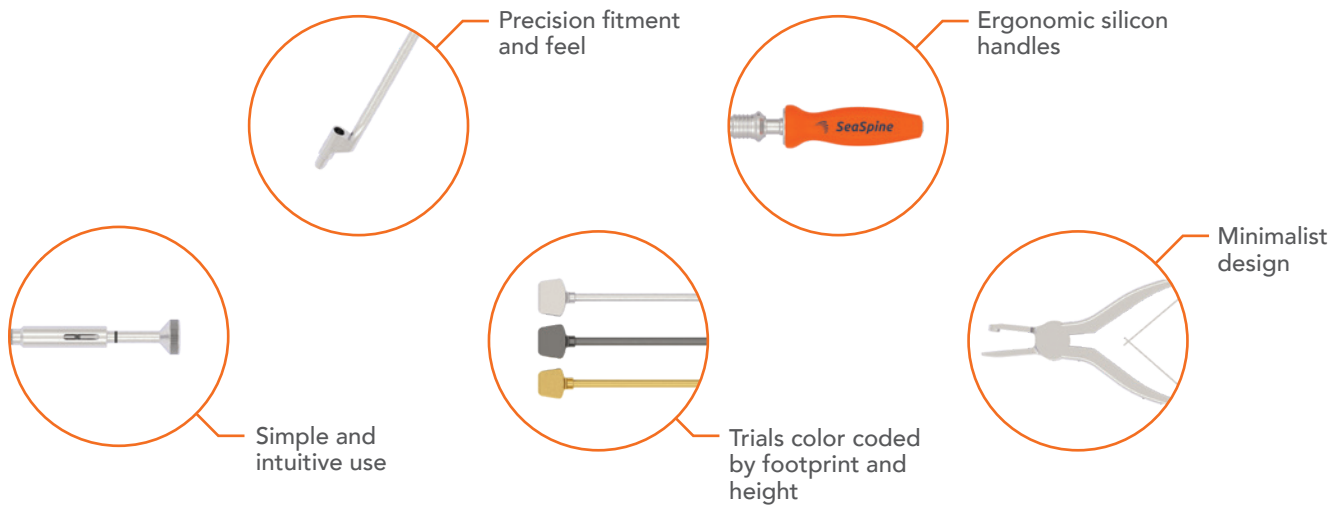


10°



15°

Refined Instrumentation



References

¹ Results from mechanical study. Data on file.

² Results from imaging study. Data on file.

³ NanoMetalene® scanning electron microscope images on file.

⁴ Kurtz SM, Devine JN. PEEK biomaterials in trauma, orthopedic, and spinal implants. *Biomaterials*. 2007; 28(32):4845-69.

⁵ Walsh, W.R. et al. Novel Titanium Surface Improves the Osteogenic Response of PEEK Implants in a Sheep Model. 2017. Data available upon request. Pre-clinical testing, such as animal studies, may not be indicative of human results.

⁶ 18x15 Footprint – Globus Coalition product overview 2011.



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