

# WAVEFORM<sup>®</sup> TA

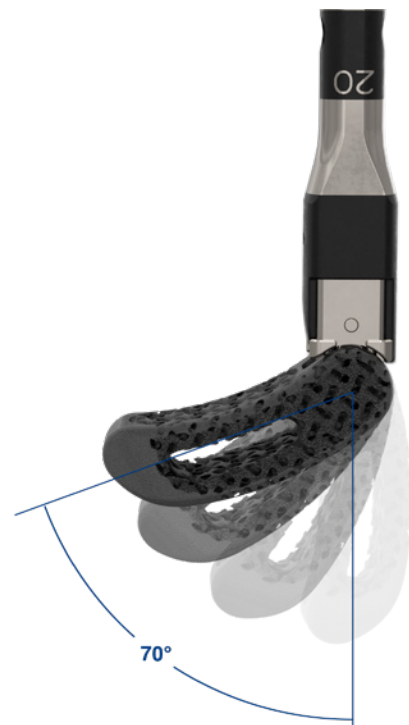
TRANSFORAMINAL LUMBAR INTERBODY  
SALES BROCHURE

# DESIGN RATIONALE

The SeaSpine® WaveForm® TA (TLIF Articulating) system is designed to reliably deliver an interbody to the anterior cortex during transforaminal lumbar interbody procedures. WaveForm TA 3D printed interbodies are thoughtfully designed with the clinical needs of the end user in mind, prioritizing strength, surface, and stability.

## IMPLANT FEATURES

- Multiple footprints and lordotic options to accommodate an array of patient anatomy
- WaveForm technology provides greater tensile strength for a given porosity<sup>2</sup>
- Bulleted insertion end to ease insertion and articulation
- Curved design and domed endplates to ensure anterior vertebral column stability
- Central aperture for autograft or allograft placement

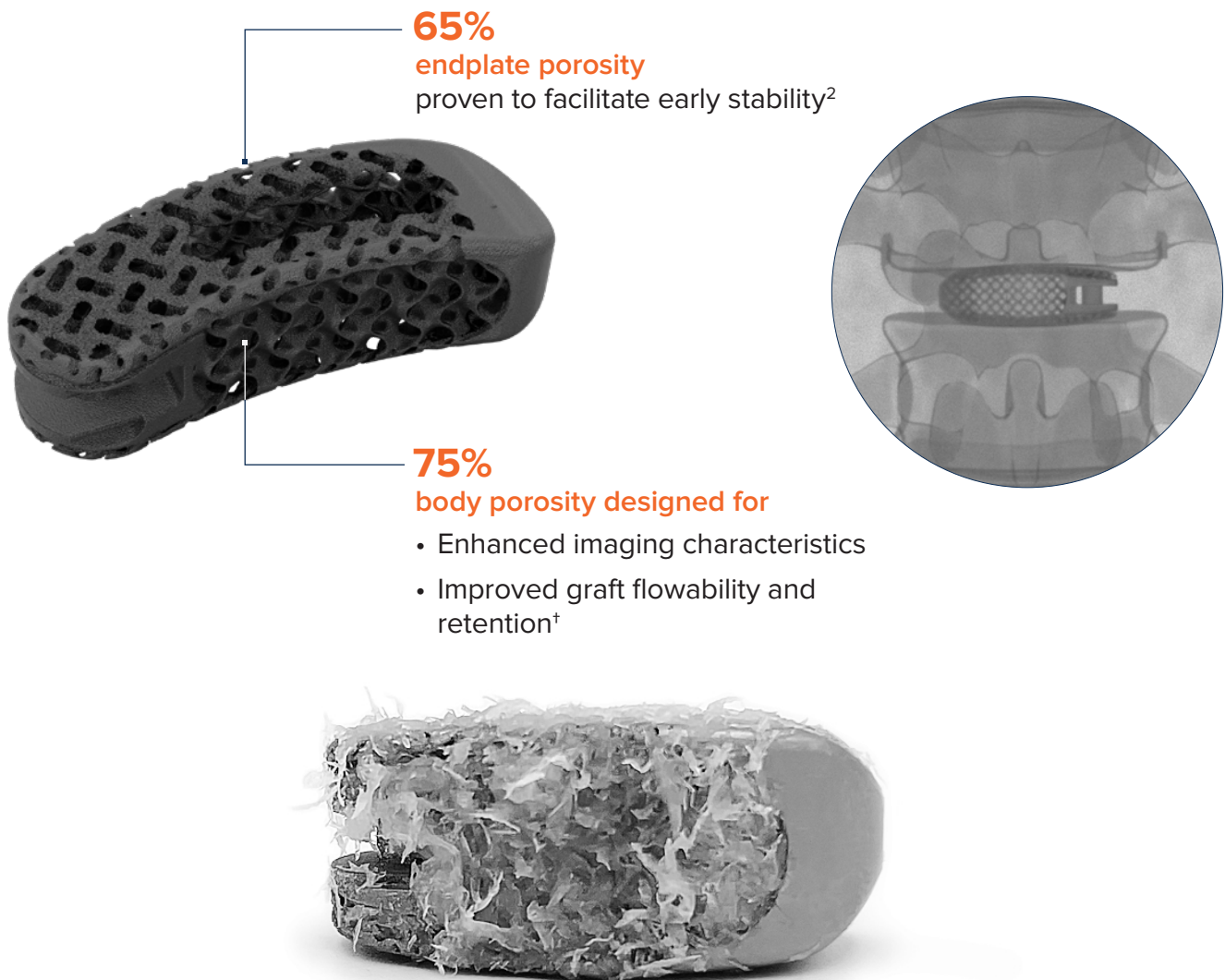


## INSTRUMENT FEATURES

- Allows for one-step, efficient implantation, and up to 70° articulation of implant
- *In situ* passive articulating feature
- Supporting instrumentation for additional implant manipulation

## WAVEFORM® TECHNOLOGY

WaveForm® interbodies are efficiently designed, prioritizing strength, surface, and stability. Manufactured entirely of a repeating and continuous wave-like structure that absorbs and distributes compressive loads more efficiently than other 3D printed architectures<sup>1</sup>, the SeaSpine® family of WaveForm interbodies, deliver high porosity and decreased stiffness without compromising strength. The body of WaveForm interbodies incorporate larger pores, compared to that of the interbody endplate, to balance the need for enhanced imaging characteristics along with improved graft flowability and retention<sup>†</sup>. With the goal of fusion, WaveForm's sheet-like structure provides more surface area for bone to crawl in and across compared to other 3D printed architectures<sup>1</sup> and features an endplate porosity of 65% proven<sup>2</sup> to maximize the potential for early stability.



# FUSION ENGINEERED®

## Deliberate Design. Driven by Science.

SeaSpine® is dedicated to providing a comprehensive portfolio of innovative, procedurally-focused products strategically designed to work together to drive fusion. The latest advancements in bone biology and materials science guide the development of in-house manufactured advanced orthobiologics and proprietary spinal implant technology engineered to address the many nuances of spinal pathology. SeaSpine products can be tailored to meet individual patient needs, delivering both clinical and economic value to patients, surgeons, and hospital systems.



### COMPLEMENTARY TECHNOLOGIES

The combination of SeaSpine spinal implant technologies and orthobiologics capitalizes on both design and science, unleashing a favorable environment for fusion.



### PROCEDURAL VERSATILITY

The comprehensive and procedurally-focused SeaSpine product portfolio offers flexibility that allows a tailored approach to each unique surgical situation.




### SCIENTIFICALLY DRIVEN

SeaSpine is committed to relying on data to drive each facet of our technologies toward the ultimate goal of fusion.

<sup>1</sup>O. Al-Ketan, R. Rowshan, R.K. Abu Al-Rub, Topology-mechanical property relationship of 3D printed strut, skeletal, and sheet based periodic metallic cellular materials, *Addit. Manuf.* 19 (2018) 167-183.  
<sup>2</sup>C.N. Kelly, et al., High-strength, porous additively manufactured implants with optimized mechanical osseointegration, *Acta Biomater.* 279 (2021).  
<sup>3</sup>Data on file

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