

MERIDIAN[®] WITH WAVEFORM[®] A

ANTERIOR LUMBAR INTERBODY SYSTEM
SALES BROCHURE

The Meridian® ALIF system was designed to be a modular instrument and implant system to streamline the ALIF procedure and provide diverse fixation options for single to multilevel ALIFs in a reduced number of sets. Implants feature WaveForm® technology by SeaSpine®, the next level of 3D printed innovation designed to prioritize strength, surface, and stability. With a repeating and continuous wave-like structure, WaveForm was created to withstand high compressive loads while delivering an endplate porosity that maximizes the potential for early stabilization^{1,2}. This balance of strength to porosity offers increased opportunity for bone packing, decreased stiffness profile, and enhanced imaging properties.[†]



2-hole No-profile



3-hole No-profile



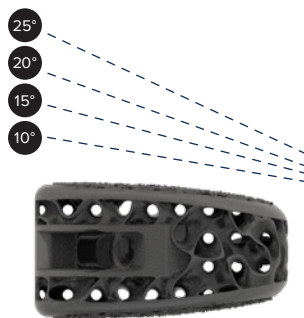
2-hole TruProfile®



4-hole TruProfile

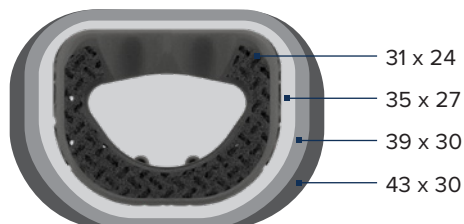
Implant Features

- WaveForm® surface technology
- Modular fixation options for single and multilevel constructs
- Large implant graft aperture for autograft or allograft placement
- Height options:
10–18mm
- Lordotic options:
10°, 15°, 20°, 25°



Multiple Footprint Options

- 31 x 24mm
- 35 x 27mm
- 39 x 30mm
- 43 x 30mm



¹O. 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.
²C.N. Kelly, et al., High-strength, porous additively manufactured implants with optimized mechanical
[†]Data on file

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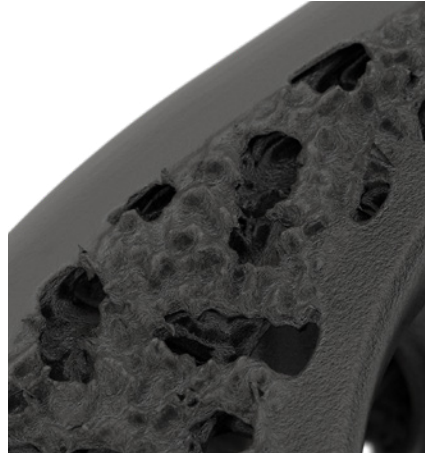
ANTERIOR LUMBAR INTERBODY SYSTEM

WAVEFORM[®] TECHNOLOGY

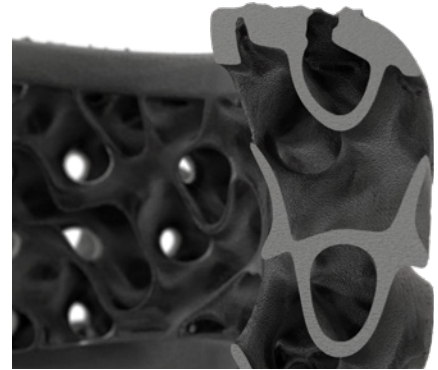
WaveForm is a repeating wave-like structure in all three dimensions and has the highest strength-to-porosity ratio compared to other 3D printed structures.³



Endplate Surface Roughness



65% Endplate Porosity



80% Body Porosity

DESIGNED TO PARTNER WITH **BEST-IN-CLASS SEASPINE[®]** **ORTHOBIOLIGICS**

When coupled with OsteoStrand[®] Plus, an osteoinductive environment is created within the WaveForm interbody, where the graft can flow from the inside out, forming a connection endplate to endplate, and ultimately be contained within the WaveForm structure.



³Kelly, Cambre N., et al. "Design and structure–function characterization of 3D printed synthetic porous biomaterials for tissue engineering." *Advanced healthcare materials* 7.7 (2018): 1701095.

PROCEDURAL SOLUTIONS

DIFFERENTIATED AND COMPLEMENTARY TECHNOLOGIES

MERIDIAN[®] WITH WAVEFORM[®] A

Anterior Lumbar Interbody System



OsteoStrand[®] Plus

100% Demineralized Bone Fibers
with Accell[®] Bone Matrix



Mariner[®] MIS

Posterior Fixation System

For more information or to place an order, please contact:
TEL 866.942.8698 | FAX 877.558.6227
customerservice@seaspine.com | seaspine.com

Outside USA
TEL +1.760.727.8399 | FAX +1.760.727.8809
INTERNATIONAL INQUIRIES intlcustomer@seaspine.com

SeaSpine Orthopedics Corporation
5770 Armada Drive
Carlsbad, CA 92008 USA
TEL 760.727.8399 USA | FAX 760.727.8809



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