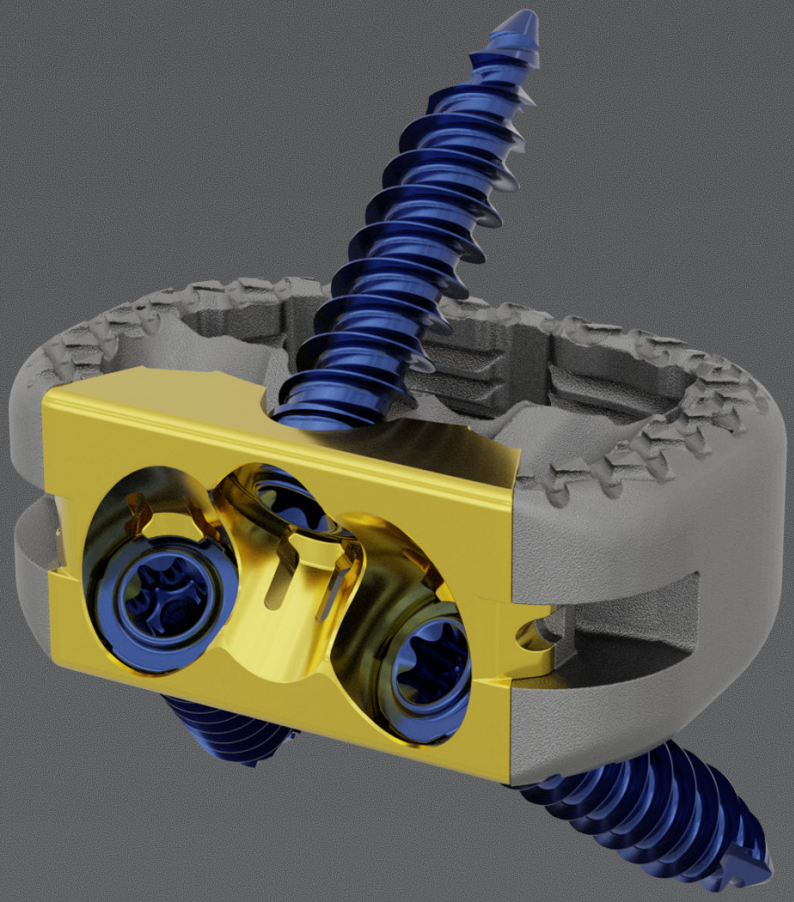
SeaSpine



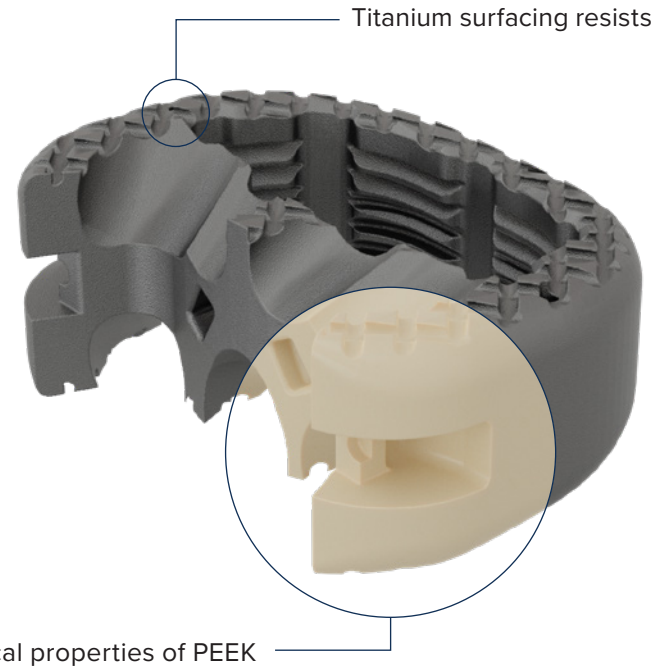
MERIDIAN® WITH REEF® A

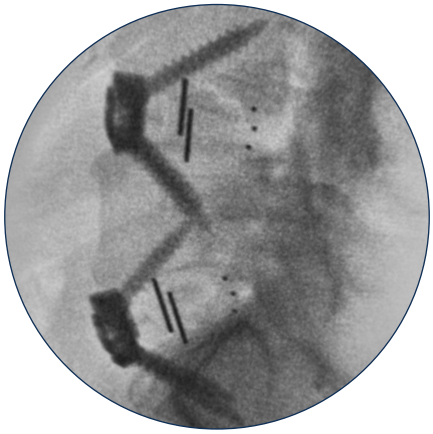
ANTERIOR LUMBAR INTERBODY SYSTEM

SALES BROCHURE

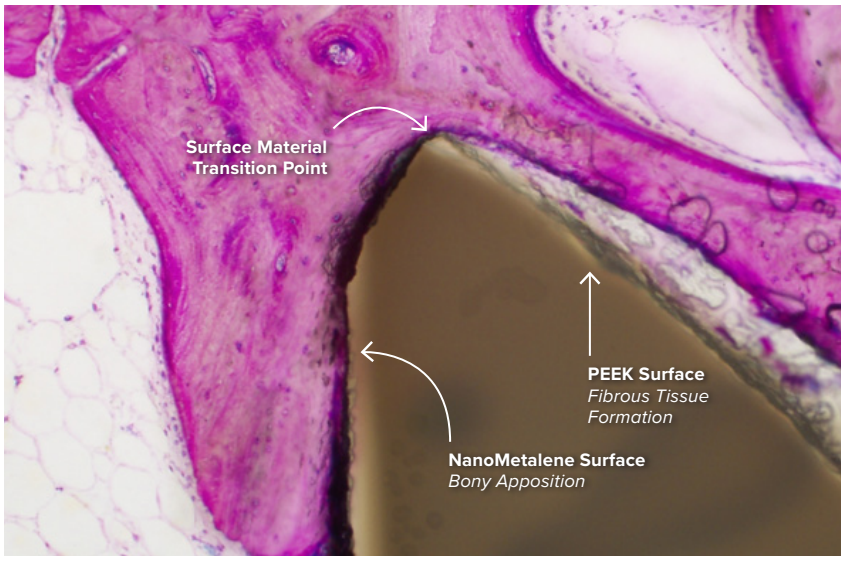
NANOMETALENE® TECHNOLOGY

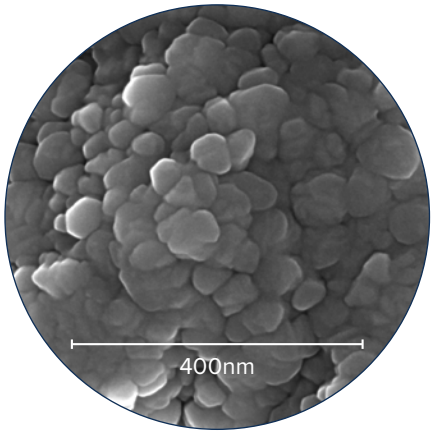
SUBMICRON TITANIUM LAYER
MOLECULARLY BONDED TO ENTIRE PEEK IMPLANT





PRECLINICAL RESULTS SHOW
GREATER BONE ONGROWTH WITH NANOMETALENE® VS. PEEK[3,†]





MERIDIAN® WITH REEF® A

ANTERIOR LUMBAR INTERBODY SYSTEM

DESIGN RATIONALE

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. Reef® A implants feature the unique SeaSpine® NanoMetalene® surface technology and the latest macrostructure design for greater titanium surface area while maintaining the mechanical and imaging properties of PEEK.[1,3,†]

2-hole No-profile

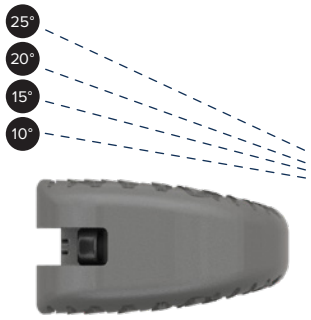
3-hole No-profile

2-hole TruProfile®

4-hole TruProfile

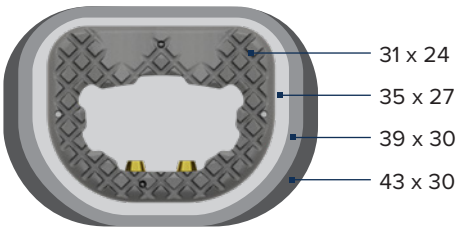
Implant Features

- Reef Topography® and NanoMetalene 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

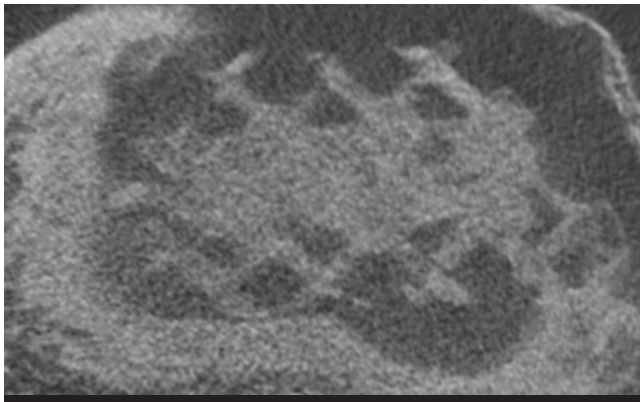


PRECLINICAL EVALUATION

PRECLINICAL EVALUATION OF REEF TOPOGRAPHY®

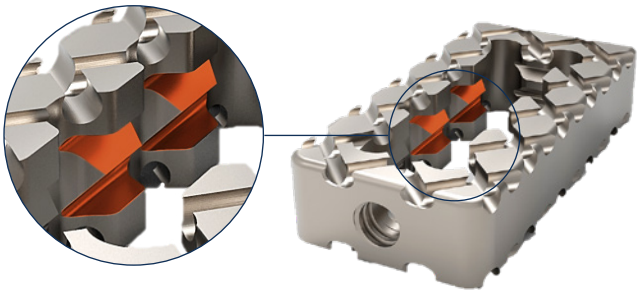
Clinically relevant endplate-sparing sheep interbody fusion model results comparing NanoMetalene® (NM) implants with and without Reef Topography®.

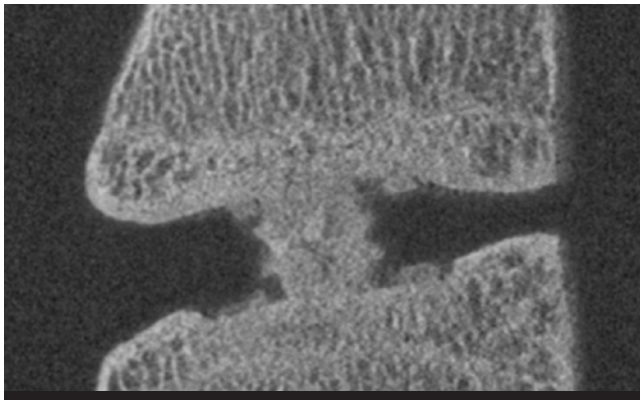
Endplate Undercut Macrostructures



6-week Axial Micro-CT

Aperture Undercut Macrostructures

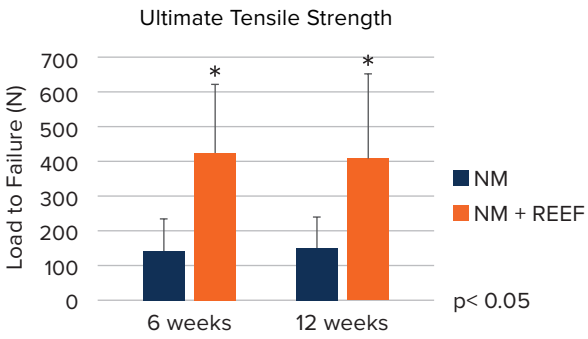




6-week Sagittal Micro-CT

Undercut Macrostructures results in

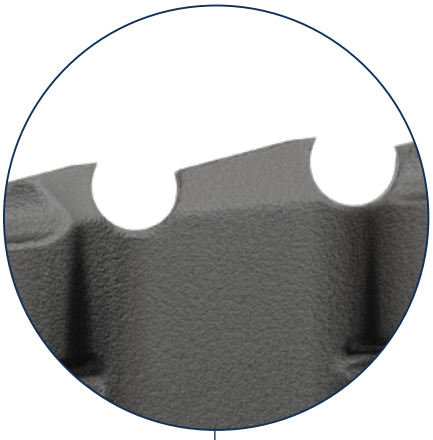
~3X INCREASE IN MECHANICAL STABILITY[5,†]



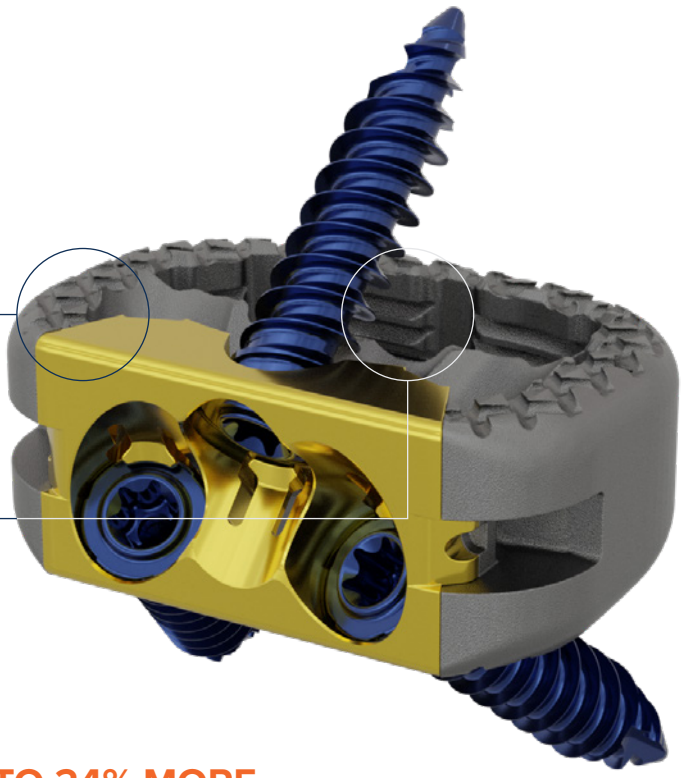
REEF TOPOGRAPHY MAY DRIVE EARLIER AND IMPROVED BIOMECHANICAL STABILITY[5,†]

REEF TOPOGRAPHY®

UNDERCUT MACROSTRUCTURES
DESIGNED TO PROMOTE BONY INTERLOCKING[5,†]



UP TO 132% MORE
NANOMETALENE® ENDPLATE SURFACE AREA
Endplate features place graft material in direct contact with the endplates.



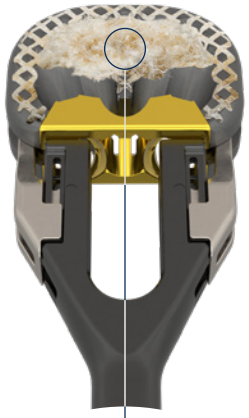
UP TO 24% MORE
NANOMETALENE APERTURE SURFACE AREA
Aperture features secure graft within the aperture during interbody placement.

PROCEDURAL SOLUTIONS

DIFFERENTIATED AND COMPLEMENTARY TECHNOLOGIES

MERIDIAN® WITH REEF® A

Anterior Lumbar Interbody



OsteoStrand® Plus

100% Demineralized Bone Fibers
with Accell® Bone Matrix

Mariner® MIS

Posterior Fixation System

†Preclinical testing, such as animal studies, may not be indicative of human results.
[1]Results from mechanical testing. Data on file. TR-0010-11-01
[2]Results from imaging study. Data on file. TR-0010-11-01
[3]Walsh, et al. The in vivo response to a novel Ti coating compared with polyether ether ketone: evaluation of the periphery and inner surfaces of an implant. *Spine Journal* 2018 Jul; 18(7): 1231-1240.
[4]NanoMetalene SEM images on file. TR-0094-19-01
[5]Results from preclinical *in vivo* testing. Data on File. D0003269

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