



A new foundation
of growth



TrellOss[®]-A SA

Porous Ti Interbody System



 **ZimVie**



Introducing TrellOss-A SA Porous Ti Interbody System

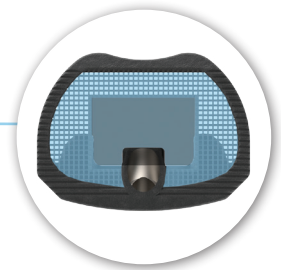
A 3D printed porous titanium interbody device with aligned 300, 500, and 700 μm pores and a 7 μm roughened surface; TrellOss-A SA is designed to provide appropriate endplate coverage with three footprint offerings, and allow for consistent bone purchase with optimized location of screw pockets. Implants are sterile-packed to reduce the risk of contamination and hospital reprocessing costs.

TrellOss-A SA Highlights

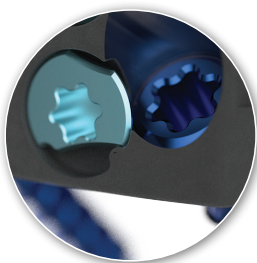
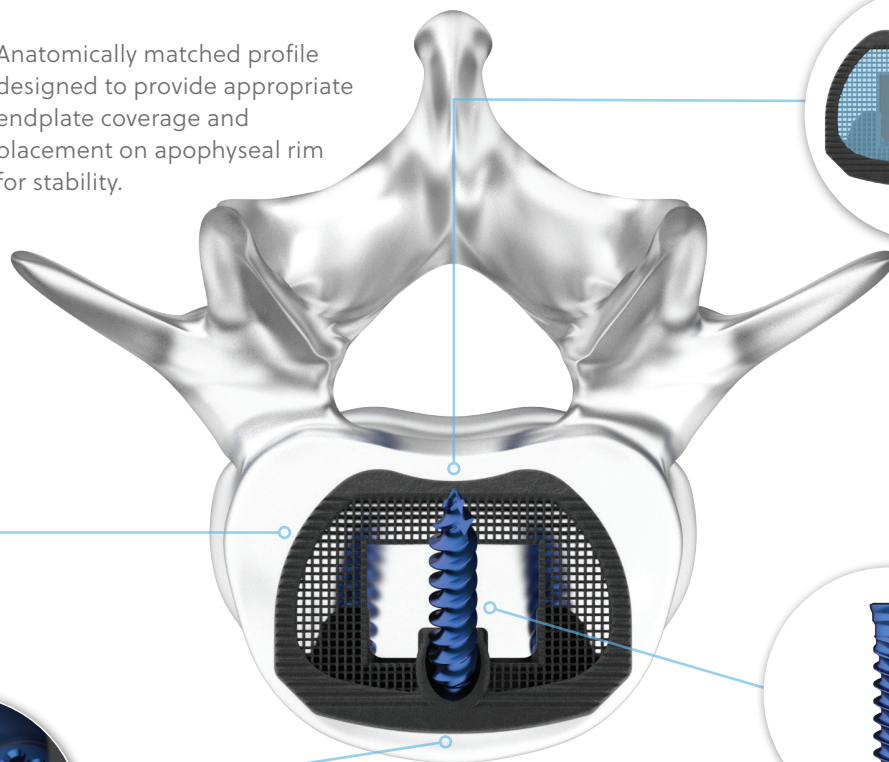
- Rigid teeth help to resist implant migration
- Central window for graft packing and containment
- Optimized location of screw pockets to allow for consistent bone purchase



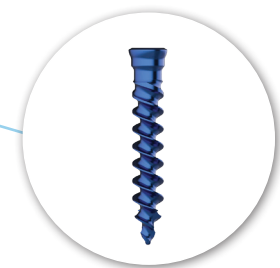
Anatomically matched profile designed to provide appropriate endplate coverage and placement on apophyseal rim for stability.



Ample graft window balanced with lattice landscape designed to create environment for bone growth.



Integrated one-step turn lock feature to prevent Screw backout.



Self-tapping Screws designed with tip-to-tail thread pattern for cancellous and cortical bone fixation.

TrellOss-A SA Sizes

Footprint	Lordosis	Height
24 x 32	8°	10 mm-18 mm
	14°	10 mm-20 mm
	20°	12 mm-20 mm
	25°	14 mm-20 mm
27 x 36	8°	10 mm-18 mm
	14°	10 mm-20 mm
	20°	12 mm-20 mm
	25°	14 mm-20 mm
30 x 40	8°	10 mm-18 mm
	14°	10 mm-20 mm
	20°	14 mm-20 mm
	25°	14 mm-20 mm



Screw Sizes

Diameter	Lengths
5.0 mm	20 mm-35 mm
5.5 mm	20 mm-35 mm



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Porosity

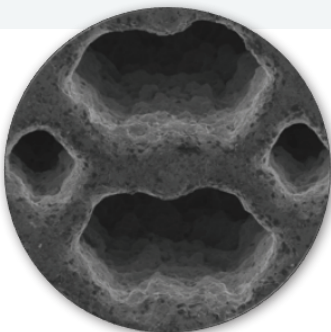
Open architecture with 70% porosity including varying pore sizes of 300, 500, and 700 μm that mimic cancellous bone allowing for a conducive environment for cellular activity^{1,5,6,7}

Structure

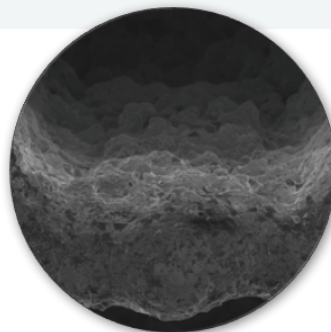
Scaffolding structure provides additional surface area^{2,3} and an elastic modulus similar to PEEK⁸

Texture

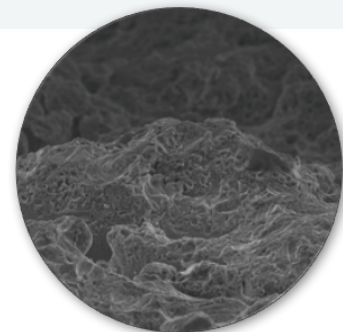
7 μm surface texturing enhances the wicking nature⁹ and creates an environment for potential cellular adhesion^{2,3,4}



SEM image of TrellOss Surface
at 50X magnification



SEM image of TrellOss Surface
at 100X magnification



SEM image of TrellOss Surface
at 450X magnification



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References

1. McGilvray KC, Easley J, Seim HB, et al. Bony ingrowth potential of 3D printed porous titanium alloy: a direct comparison of interbody cage materials in an in vivo ovine lumbar fusion model. *Spine J* 2018;18(7):1250-1260. 2. Olivares-Navarrete R, Hyzy SL, Slosar PJ et al. Implant materials generate different peri-implant inflammatory factors: poly-ether-ether-ketone promotes fibrosis and microtextured titanium promotes osteogenic factors. *Spine* 2015;40(6):399 -404. 3. Olivares-Navarrete R, Hyzy SL, Gittens RA, et al. Rough titanium alloys regulate osteoblast production of angiogenic factors. *Spine J* 2013;13(11):1563 -70. 4. Rao PJ, Pelletier MH, Walsh WR, et al. Spine Interbody Implants: Material Selection and Modification, Functionalization and Bioactivation of Surfaces to Improve Osseointegration. *Orthop Surg* 2014;6:81 -89. 5. Ponader S, von Wilmsowsky C, Widenmayer M, et al. In vivo performance of selective electron beam-melted ti-6al-4v structures. *J Biomed Mater Res A* 2010;92A:56 -62. 6. Li JP, Habibovic P, et al.: Bone ingrowth in porous titanium implants produced by 3D fiber deposition. *Biomaterials* 2007;28:2810. 7. Karageorgiou V, Kaplan D. Porosity of 3D biomaterial scaffolds and osteogenesis. *Biomaterials* 2005;26(27):5474 -91. 8. Permeswaran, V., (2019) Elastic Modulus Characterization of Porous Titanium TrellOss™ Structure, 2922.1-GLBL-en-REV1219, Zimmer Biomet Spine, Westminster, CO 9. Permeswaran, V., (2019) Measuring the Wicking Nature of Porous Titanium TrellOss™ Structure, 2921.1-GLBL-en-REV1219, Zimmer Biomet Spine, Westminster, CO.

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