

NEXXT MATRIXX[®] Technology

STRUXXURE[®]-A Integration

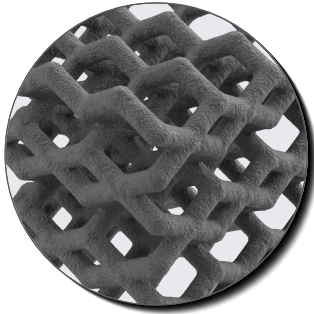
Intraoperative Flexibility



NEXXT MATRIXX®

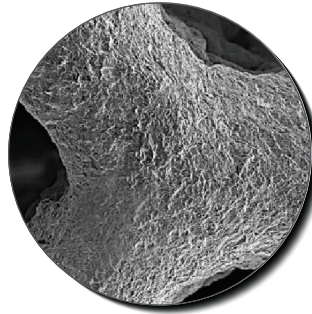
3D Printed Porous Titanium

10X



Systematic Titanium
PORES

300X



Uncompromising
MACROSURFACE

10,000X



7µm Surface
MICROSURFACE

Pillars of NEXXT MATRIXX® Technology:

1. 7µm surface roughness designed to increase osteoblast differentiation, production of angiogenic factors, and surface osteointegration.^{2,3,6}
2. Varied pore array of 300, 500, and 700µm designed to support vascularization and osteogenesis.^{1,4,5}
3. 75% Porous, open titanium architecture developed for greater surface area and nutrient exchange, leading to increased volume for potential boney in-growth.^{4,5,6}
4. Modulus of elasticity engineered to be comparable to PEEK devices leading to a more physiological product.⁶
5. 700µm A/P and lateral lattice geometry designed to provide robust radiographic imaging unimpeded by reducing overall titanium material and device density.⁶

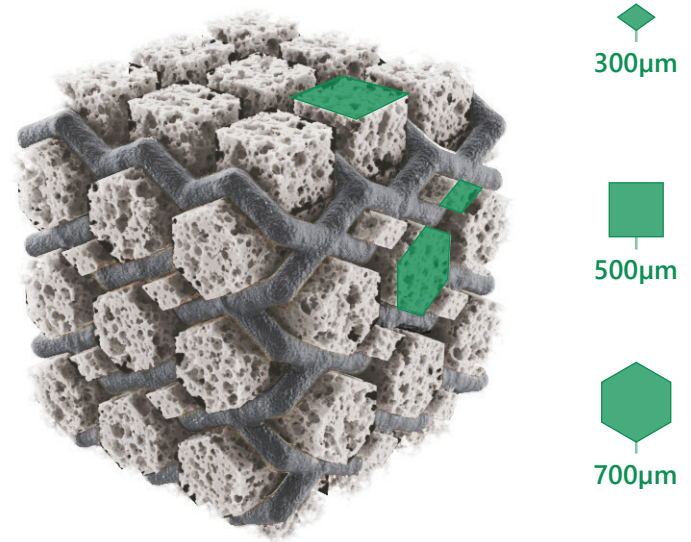


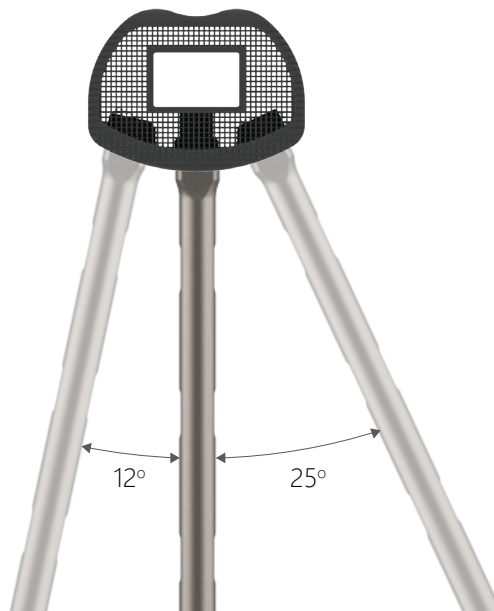
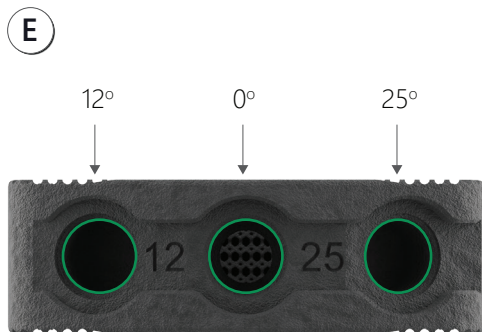
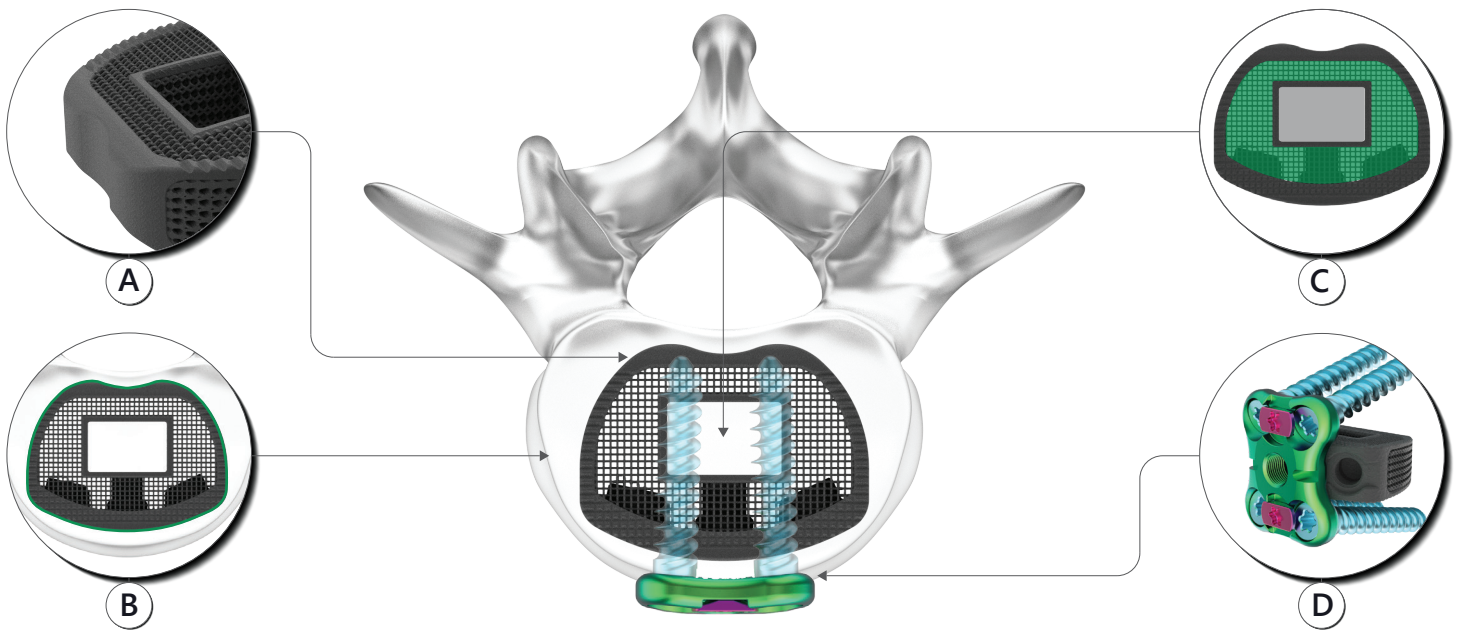
Image above used to illustrate available volume for bony ingrowth.

Studies referenced for the foundational design of NEXXT MATRIXX®:

1. Karageorgiou V, Kaplan D. Porosity of 3D biomaterial scaffolds and osteogenesis. *Biomaterials*. 2005;26(27):5474–91.
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. Ponader S, von Wilmowsky 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
5. Li JP, Habibovic P, et al.: Bone ingrowth in porous titanium implants produced by 3D fiber deposition. *Biomaterials* 28:2810, 2007.
6. Data on file at Nexxt Spine, LLC.

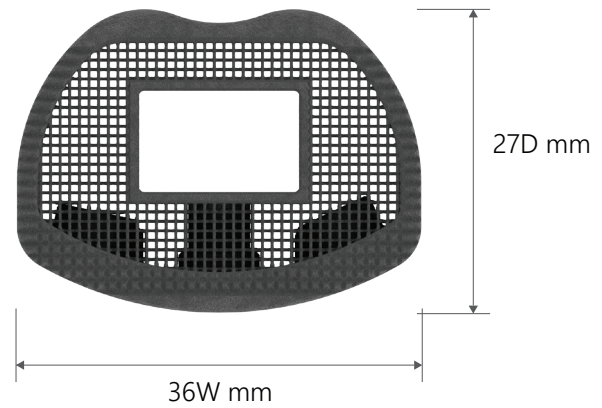
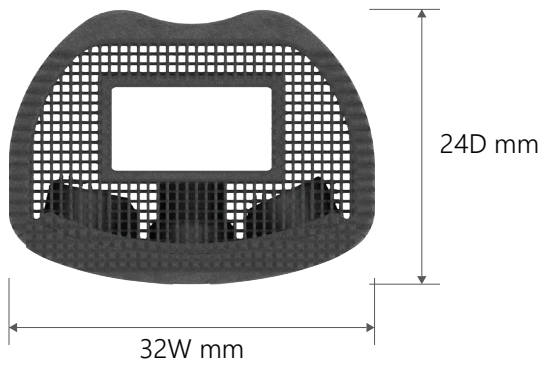
CAGE FEATURES

- A** Bulleted nose design simplifies insertion in collapsed degenerative discs without compromising the apophyseal rim.
- B** Anatomically matched profile designed to provide appropriate endplate coverage and placement on apophyseal rim for stability.
- C** Ample graft window balanced with lattice landscape designed to create environment for bone growth and is based on published data.
- D** Implant compatibility with STRUXXURE[®]-A Plate System for single position procedural solution.
- E** Cephalad/Caudal symmetry provides intraoperative flexibility for additional left or right insertion at either 12° and 25°.



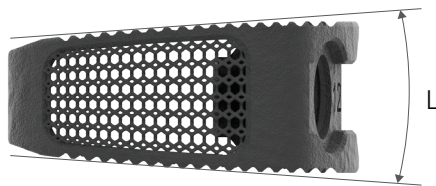
CAGE SPECS

Footprints



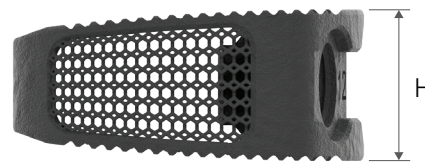
Lordoses

8°, 14°, and 20°



Heights

8, 10, 12, 14, 16, 18, and 20mm



Size Offering

Depth x Width x Height x Lordosis

Key: Standard Made to Order

| D | W | H | 8° | 14° | 20° |
|----|----|----|-------------------------------------|-------------------------------------|-------------------------------------|
| 24 | 32 | 08 | <input checked="" type="checkbox"/> | | |
| | | 10 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | 12 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
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