NeXXt Spine

GROW WITH US

NEXXT MATRIXX® Technology
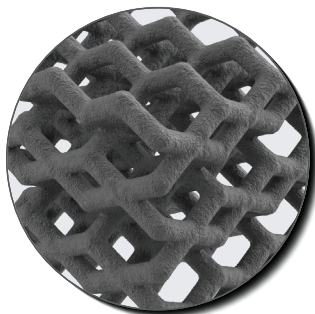
One-Step Turn Lock

Self-Guided Instruments

XX

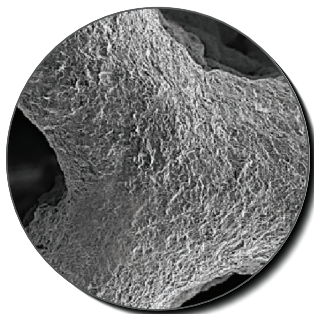GROW WITH US

NEXXT MATRIXX®
3D Printed Porous Titanium

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3D Printed Porous Titanium

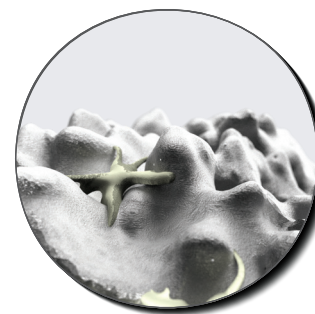| 10X	300X	10,000X

Systematic Titanium
PORES

Uncompromising
MACROSURFACE

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]
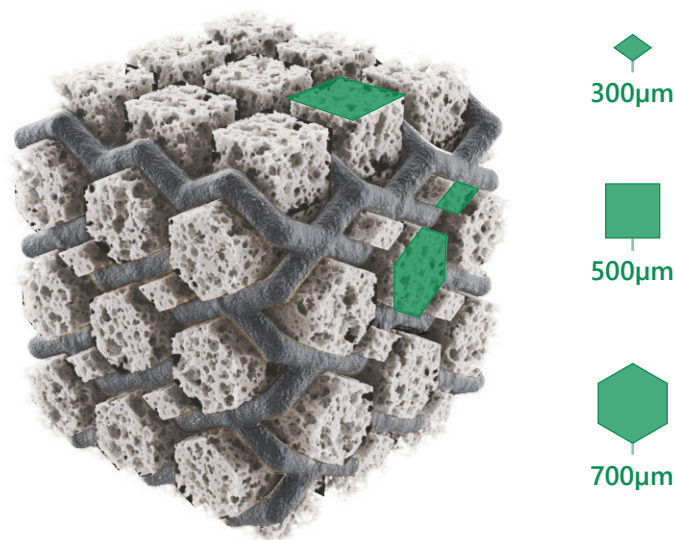

300µm

500µm

700µm

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.

PRODUCT FEATURES

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

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

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

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

E Optimized location of Screw Pockets to allow for consistent bone purchase per Screw regardless of Cage height.

A

C

B

D

E
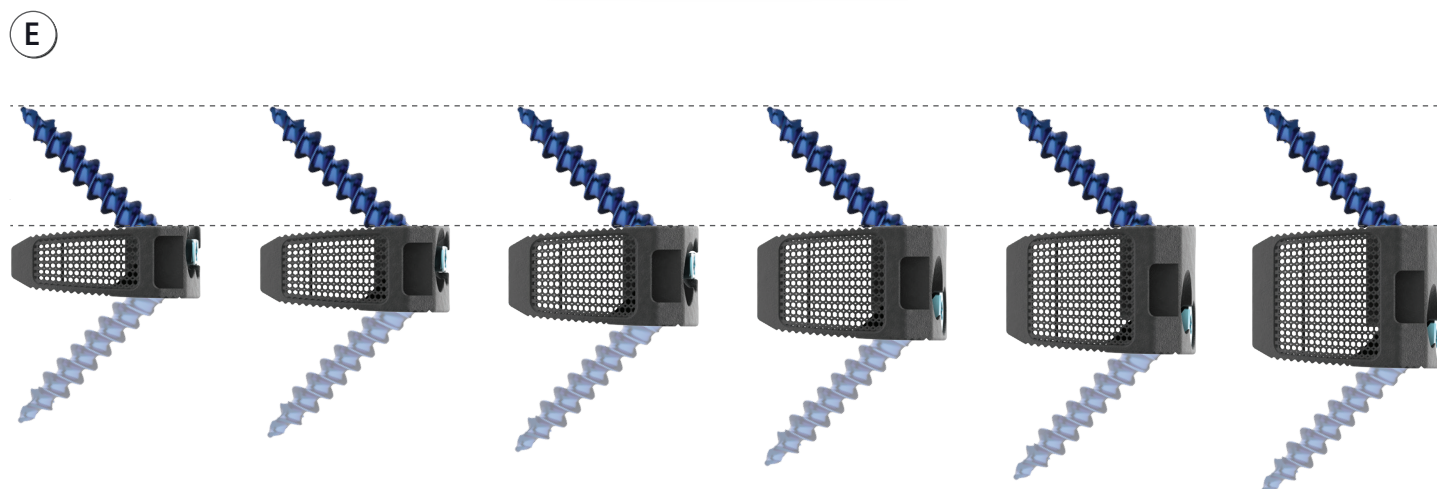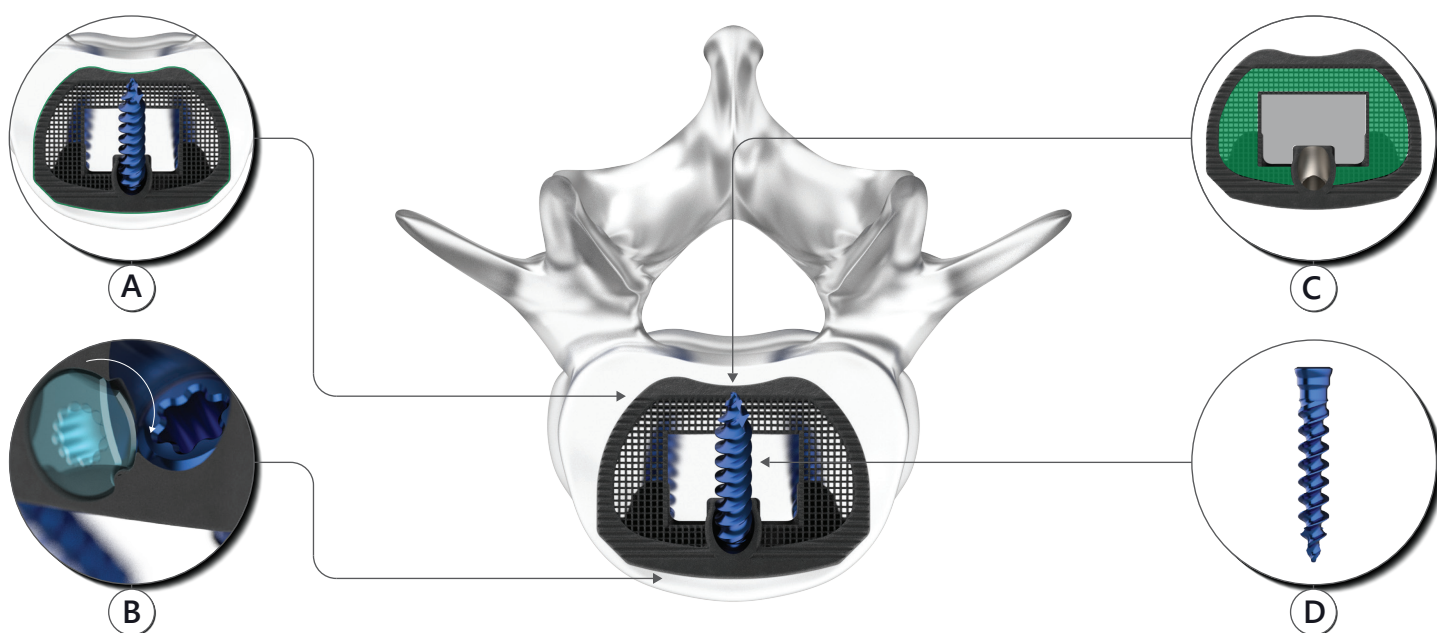
CAGE SPECIFICATIONS

Footprints

24D x 32W, 27D x 36W, and 30D x 40Wmm
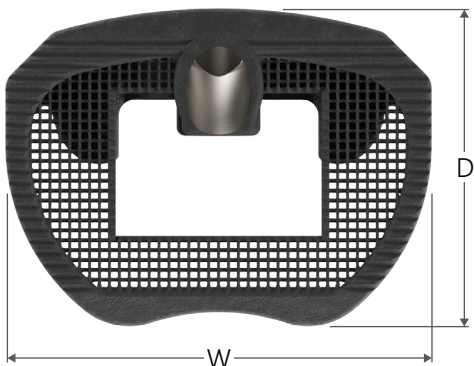
Lordoses

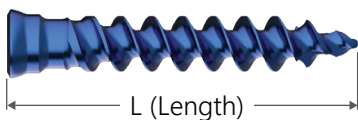8°, 14°, 20°, and 25°
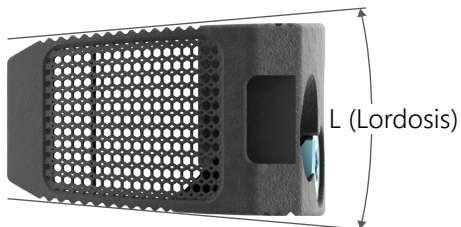
Heights

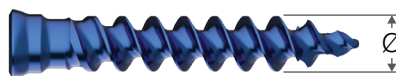10, 12, 14, 16, 18, and 20mm
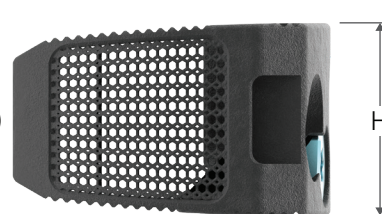
SCREW SPECIFICATIONS

Lengths

20, 25, 30, and 35mm

Diameters

5.0 and 5.5mm

Size Offering

Key: Standard ✓ Made to Order ○

Cage
Depth x Width x Height x Lordosis

D	W	H	8°	14°	20°	25°
24	32	10	✓	✓		
		12	✓	✓	✓	
		14	✓	✓	✓	○
		16	✓	✓	✓	○
		18	✓	✓	✓	○
		20	○	✓	✓	○
27	36	10	✓	✓		
		12	✓	✓		
		14	✓	✓	✓	○
		16	✓	✓	✓	○
		18	✓	✓	✓	○
		20	○	✓	✓	○
30	40	10	✓	✓		
		12	✓	✓		
		14	✓	✓	✓	○
		16	✓	✓	✓	○
		18	✓	✓	✓	○
		20	○	✓	✓	○

Screws
Diameter x Length

Ø	L	
5.0	20	✓
	25	✓
	30	✓
	35	✓
5.5	20	✓
	25	✓
	30	✓
	35	✓

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For indications, contraindications, warnings, precautions, potential adverse effects and patient counselling information, see the package insert or contact your local representative; visit NexxtSpine.com for additional product information.

70-080, Rev B