

NEST

INTERBODY SYSTEM

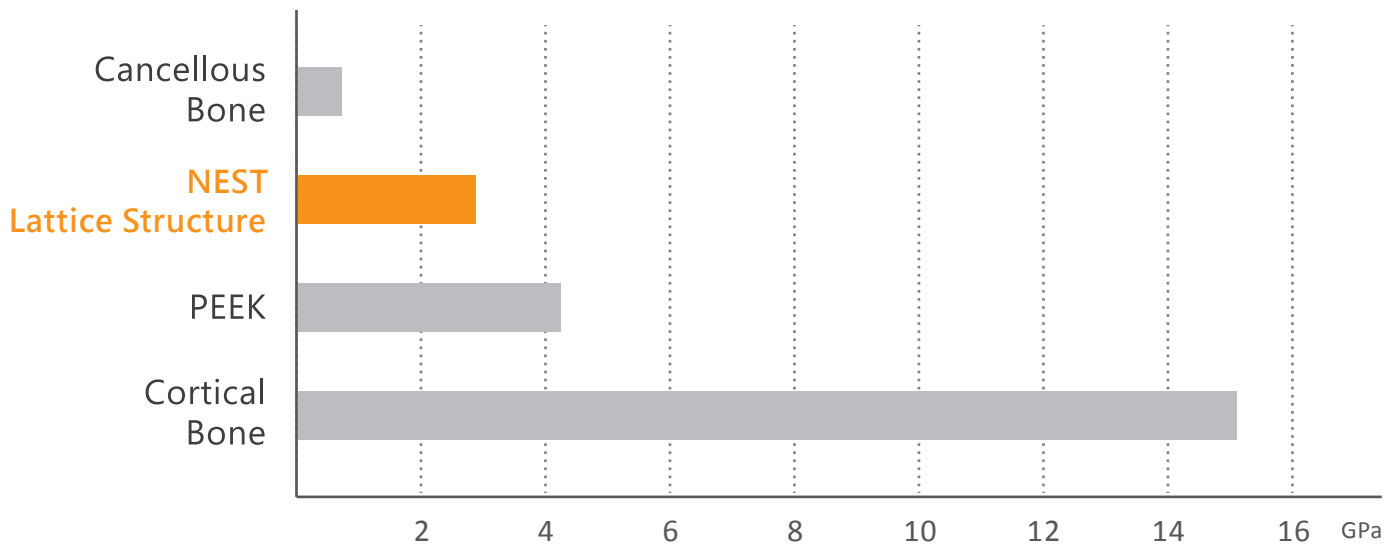
● Introduction

Nest Interbody System is a hollow, rectangular implant that consists of a unique configuration of both solid and porous structures, which are built using Paonan's 3D printing Titanium technology.

● Why Titanium?

To seek a new material for next generation spine surgery, Paonan Biotech started from scratch to create an osteo influential and effective implant designs. Our own Titanium material allows us to produce porous titanium cages that combine the biocompatibility of titanium material with improved bone incorporative and biomechanical qualities. The porous titanium cage combines specific macro structural, micro structural and nano structural characteristics, which synergistically influence the bony fusion process.

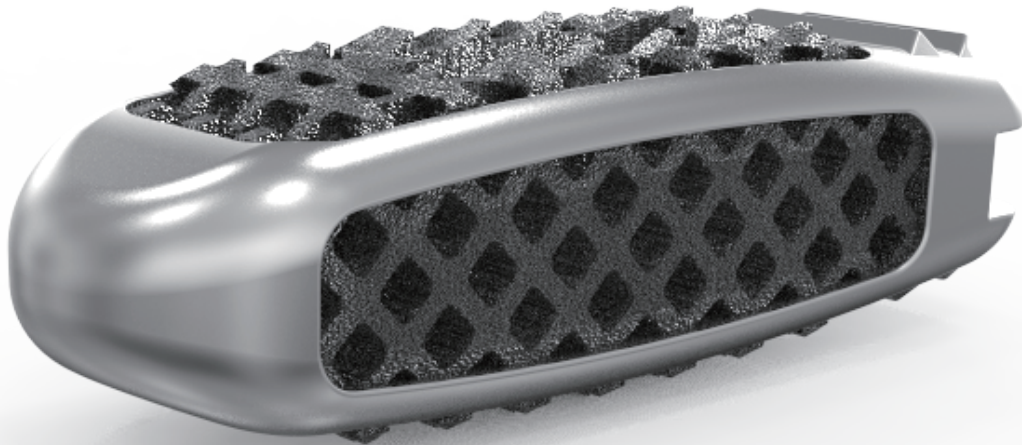
Elastic modulus of implant materials in comparison to bone



*Data from Biomech Lab 2018 Report

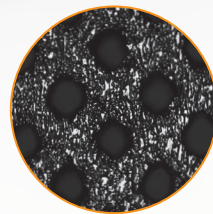
● Features and Benefits

NEST is designed for bone in-growth and biological fixation. Inspired by the microstructure of cancellous bone, and enabled by Paonan's 3D printing manufacturing process, this technology is deliberately designed for fusion.



Interconnected Porous Structure

- Not only on-growth; in-growth as well
- Created to allow radiographic visualization



Pore size range: 700-900µm
Porosity: ≈ 70-80%

Titanium Dioxide Layer and Rough Surface

- Promote cellular adhesion and proliferation

Serrated Surface Design

- Enhance fixation stability and avoid expulsion/migration

Diamond Lattice / Solid Framework Composite Architecture

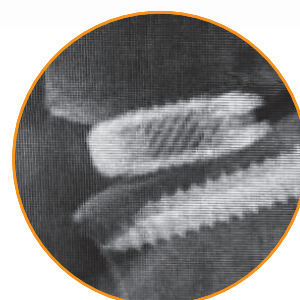
- Optimized elastic modules to provide mechanical integrity and minimize subsidence

Smooth Wedge-shaped Design

- Easy Insertion

Optimal imaging characteristics

- Nest Interbody System has excellent imaging properties under X-Ray and CT.



Ordering Information

The NEST Interbody System comes completely with implants and all the necessary instrumentation to permit safe and accurate implantation in each procedure. For more information, please contact with our representatives.

REF	Width (W)	Length (L)	Height (H)
21001008220803	8	22	8
21001008220904	8	22	9
21001008221004	8	22	10
21001008221104	8	22	11
21001008221204	8	22	12
21001008221304	8	22	13
21001008221404	8	22	14
21001008240803	8	24	8
21001008240904	8	24	9
21001008241004	8	24	10
21001008241104	8	24	11
21001008241204	8	24	12
21001008241304	8	24	13
21001008241404	8	24	14
21001008260803	8	26	8
21001008260904	8	26	9
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Size: mm

REF	Width (W)	Length (L)	Height (H)
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Size: mm