

THE HIVE™ PRODUCT PORTFOLIO

FEATURING SOFT TITANIUM® TECHNOLOGY

HIVE STANDALONE ALIF SYSTEM

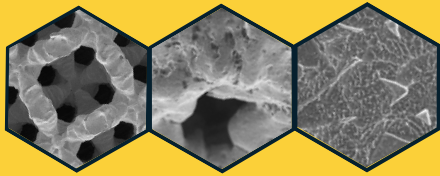


A BETTER FUSION SOLUTION

The HIVE Standalone ALIF System includes a range of implant sizes to accommodate vertebral anatomy and incorporates a Soft Titanium lattice structure to deliver maximum durability while optimizing visualization.

THE HIVE SOFT TITANIUM TECHNOLOGY

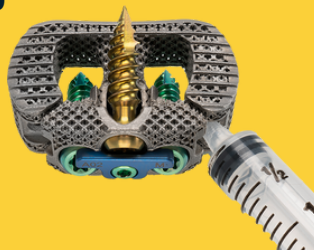
MAXIMIZED BONE ONGROWTH AND INGROWTH



- Proprietary NanoHive® acid etch surface treatment drives increased osteoblast recruitment, as compared to untreated surfaces [1]
- Rapid bone attachment seen at endplates and throughout the lattice [2]
- Macro, micro and nano-scale features on all surfaces, as well as each member of the internal cell structure, are designed to support osteoblast adhesion and optimize the environment for bony on-growth [1,3]

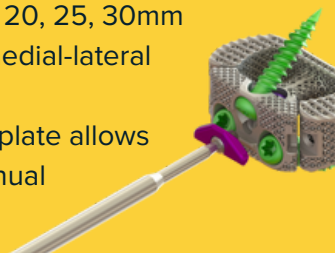
INJECTION CHANNELS

- Maximizes volume of bone graft within the lateral walls of the implant



BONE SCREWS

- Aggressive self drilling/self tapping, with minimal pilot holes steps required
- Dia: 5.0 & 5.5mm, Length: 20, 25, 30mm
- Bias screw angles of 15° medial-lateral and 35° cephalad-caudal
- Simple one-step blocking plate allows for audible, visual and manual confirmation



IMPLANT SIZES

32mm wide x 26mm deep

- Lordosis: 8°, 15°
- Height: 11, 13, 15, 17mm

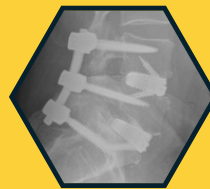
38mm wide x 26mm deep

- Lordosis: 8°, 15°, 22°
- Height: 13, 15, 17, 19mm

42mm wide x 28mm deep

- Lordosis: 8°, 15°, 22°
- Height: 13, 15, 17, 19mm

IMPROVED VISUALIZATION



- Low density lattice designed to allow visualization of endplate fusion and bone growth through the cage
- CT/MRI scatter and interference reduced

REDUCED IMPLANT STIFFNESS

- Patented rhombic dodecahedron lattice with independent endplates reduces the need for stress shielding design features found in other implants
- Soft Titanium lattice allows bone cells growing within the implant walls to experience natural loads, significantly increasing bone strength per Wolff's law



INTUITIVE INSTRUMENTATION

- Streamlined instrumentation, including various angled instruments, accommodate a variety of anatomical conditions and approaches



[1] N. J. Bassous, C. L. Jones and T. J. Webster, 3-D printed Ti-6Al-4V scaffolds for supporting osteoblast and restricting bacterial functions without using drugs: Predictive equations and experiments, *Acta Biomaterialia* 96 (2019) 662-673, <https://doi.org/10.1016/j.actbio.2019.06.055>,
[2] CL Jones, D Bichara, J Toy, J Tinley. (2018) "Bone In Growth with 3D-Printed Soft Titanium® Scaffold." [White Paper], NanoHive Medical, LLC.
[3] Ejirofor J., et al, Bone Cell Adhesion on Titanium Implants with Nanoscale Surface Features. *International Journal of Powder Metallurgy*, 40(2), 43-53.