HEDRON

THE FACE OF FUSION

ACDF | ALIF | LLIF | PLIF | TLIF





GLOBUSMEDICAL.COM/HEDRON

THE FACE OF FUSION



HEDRON[™] 3D printed titanium interbody spacers feature a biomimetic porous scaffold designed to promote bone formation onto and through the implant.



Trabecular Bone Inspired Design Encourages Cellular Response



Promotes Bone Formation

HEDRON

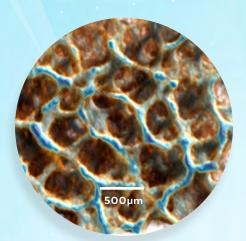
Accommodates Multiple Approaches and Techniques

Procedure	HEDRON [™] Spacer	Footprint	Heights	Lordosis
ACDF	HEDRON C [™]	12x14, 14x16, 15x18mm	5, 6, 7, 8, 9, 10, 11, 12mm	0°, 7°, 12°, 15°, 20°
	HEDRON IC [™]	12x14, 14x16, 15x18mm	5, 6, 7, 8, 9, 10, 11, 12mm	0°, 7°, 12°
ALIF	HEDRON A [™]	22x29, 24x35, 28x39mm	9, 11, 13, 15, 17, 19, 21mm	8°, 15°, 20°
	HEDRON IA**	24x30, 26x34, 29x39mm	11, 13, 15, 17, 19, 21mm	8°, 15°, 20°, 25°, 30°
LLIF	HEDRON L [™]	18, 22mm widths 40-60mm lengths	7, 9, 11, 13, 15mm	10°, 15°
PLIF	HEDRON P [™]	8x22, 10x22, 10x26, 10x30, 12x26, 12x30mm	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17mm	8°, 15°
TLIF	HEDRON T [™]	10x28, 11x33mm	7, 8, 9, 10, 11, 12, 13, 15, 17mm	8°, 15°

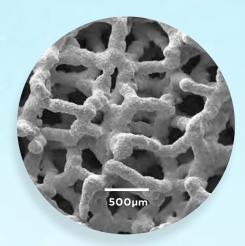
TRABECULAR BONE INSPIRED DESIGN



Osseointegration between an implant and surrounding bone may help achieve stability. HEDRON[™] integrates biomimetic architecture with characteristics of established interbody fusion devices.



MicroCT of trabecular bone



SEM image of HEDRON[™]

FEATURES

Lattice stiffness comparable to trabecular bone¹

70% porosity

Expansive pore size distribution

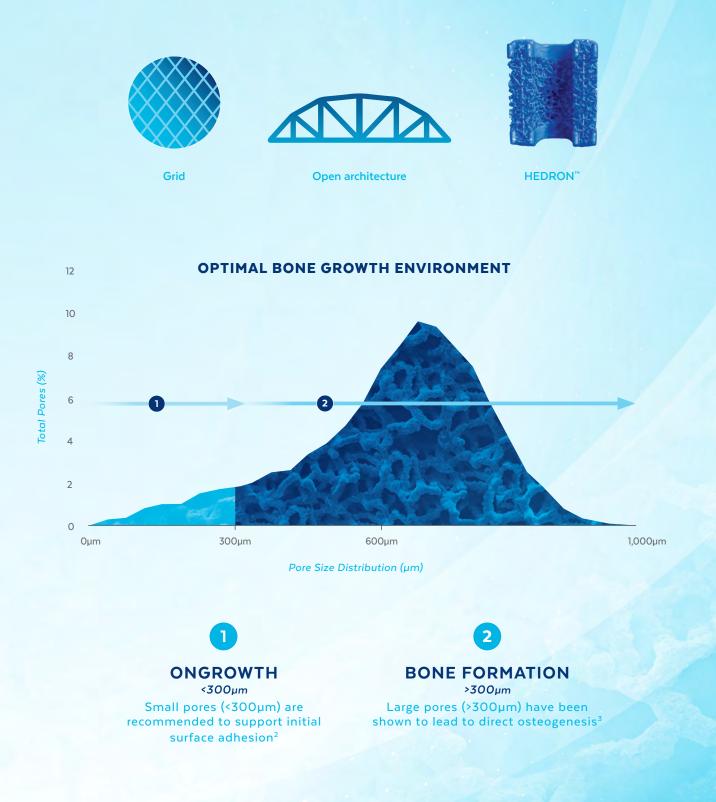
Roughened surface texture



Clear visualization (Supplemental fixation required)

Strength and Porosity

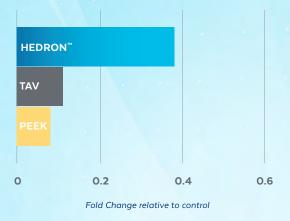
Unlike first generation 3D printed implants (grid and open architecture), HEDRON[™] strikes the ideal balance of strength and porosity through a sturdy frame and pore size distribution similar to trabecular bone.



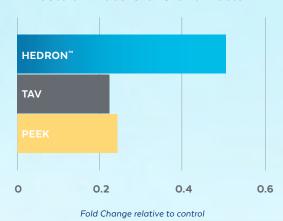
Torres-Sanchez et al. Material Science and Engineering. 2017 Mar; 219–228.
 Karageorgiou V, Kaplan D. Biomaterials. 2005;26(27):5474-91.

ENCOURAGES CELLULAR © RESPONSE

In Vitro testing demonstrated that HEDRON[™] generated a greater expression of Vascular Endothelial Growth Factor (VEGF) and Osteocalcin, two biological indicators of bone formation.⁴



Osteocalcin Gene Expression



% GREATER VEGF COMPARED TO TAV

% GREATER VEGF COMPARED TO PEEK



236[%] **GREATER OSTEOCALCIN** COMPARED TO TAV **429**[%] **GREATER OSTEOCALCIN** COMPARED TO PEEK

SEM images of cell proliferation at 21 days (500x magnification)



PEEK





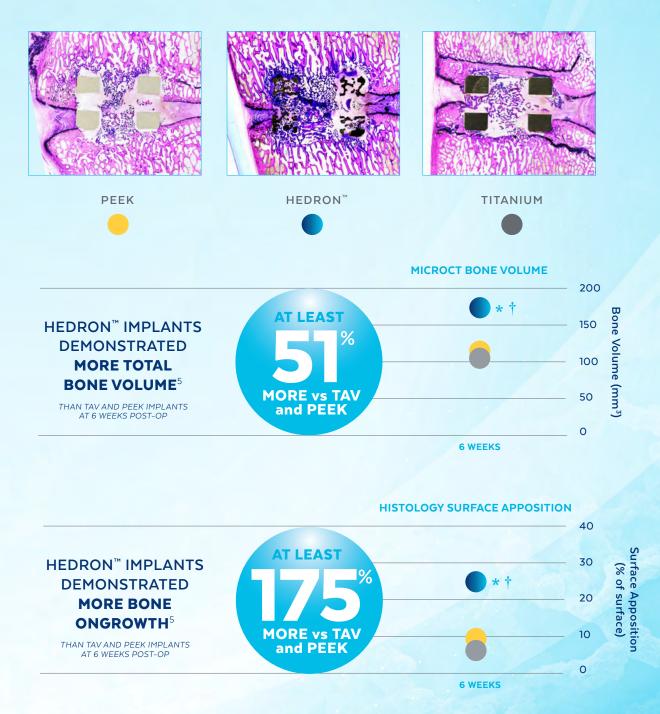
TAV

HEDRON™

PROMOTES BONE FORMATION

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Unlike PEEK and TAV, the porous architecture of HEDRON[™] allows for bone to grow through the spacer walls and incorporate into the fusion mass. In a pre-clinical ovine study, HEDRON[™] implants showed significantly more bone growth compared to PEEK and titanium implants at 6-weeks post-op.⁵



HEDRON



HEDRON L[™] LLIF SPACER



HEDRON IA[™] INTEGRATED ALIF SPACER



HEDRON A[™]

ALIF SPACER

HEDRON C[™] ACDF SPACER



HEDRON P[™] PLIF SPACER



HEDRON IC[™] INTEGRATED ACDF PLATE-SPACER



HEDRON T[™] TLIF SPACER



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