Camber Spine

LIFE UPRIGHT®

**Where others see problems, we see opportunities.**

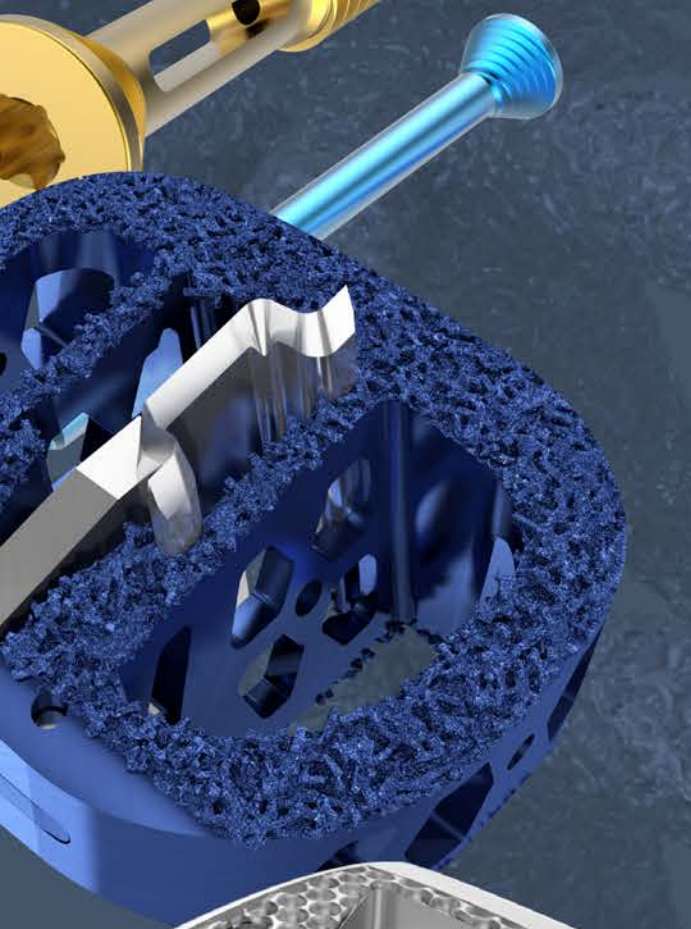
**Transforming surgeon frustrations into innovations.**


# ABOUT US

Camber Spine is dedicated to creating surgeon designed solutions in MIS and minimally disruptive access for the treatment of complex spinal pathology. Incorporating state-of-the-art manufacturing, 3-D printing, and an acute sensitivity to patient anatomy, Camber Spine is making quantum leaps in the spinal fusion market. As of 2020 Camber has twenty 510(k) clearances and over twenty-six active or issued patents including two highly innovative and IP protected device platforms that support faster spinal fusion and recovery - ENZA® (MIS integrated Interbody) spinal fusion implants and SPIRA® OA (Open Architecture 3D printed) spinal fusion and orthopedic implants. Camber Spine is an ISO 13485 certified medical device manufacturer.

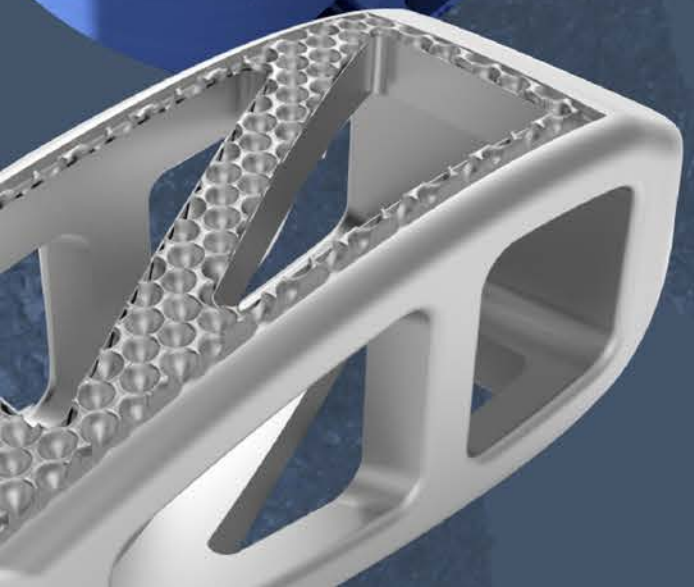
# A NEW CORPORATE OFFICE

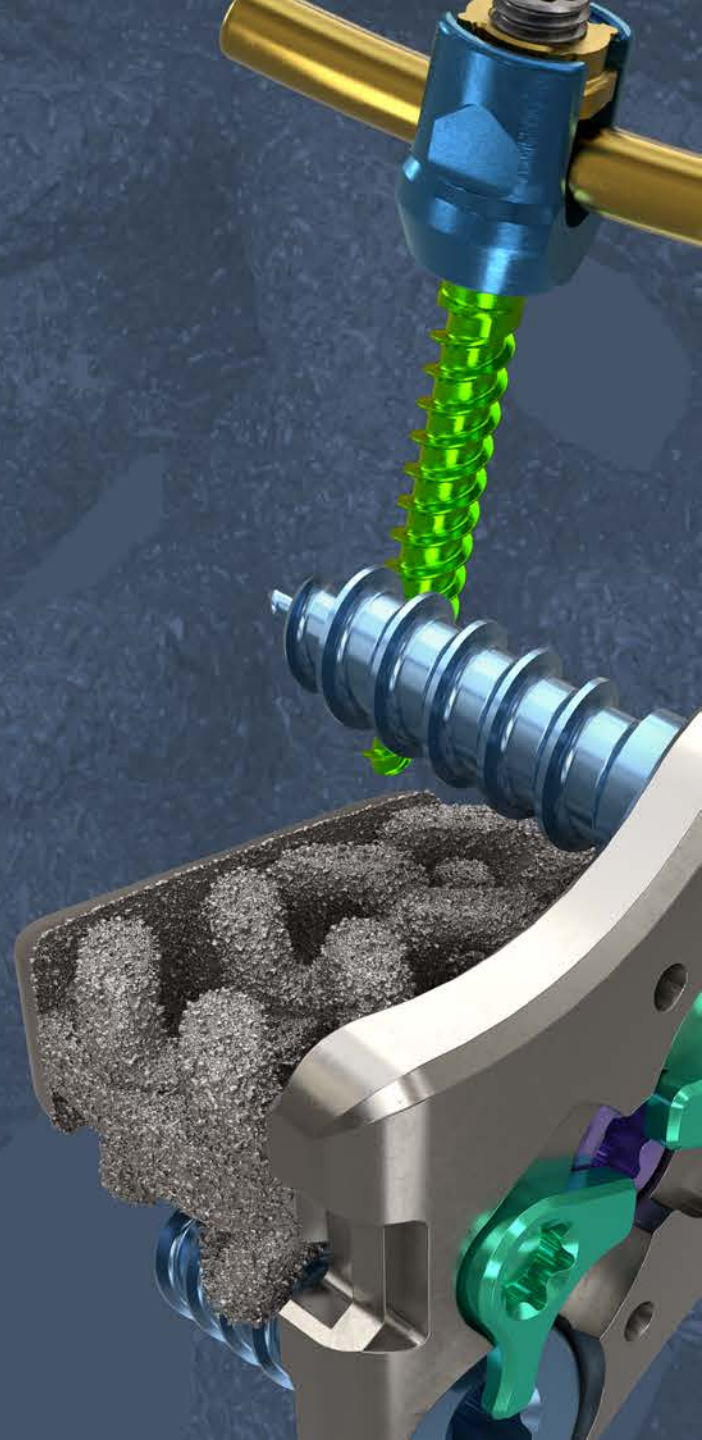
Conveniently located just outside of Philadelphia, Camber Spine's new Science and Technology Headquarters brings the sales, training, quality and marketing teams all under one roof with the engineering, design and development team. The 27,000 square foot space was designed to create a better work environment for current and future staff and to increase efficiency for all departments. The building, with its modern open design promotes collaboration and reinforces the innovative nature of the company. It features better meeting facilities, more office space, a mechanical test lab with a full prototype shop and an expanded state-of-the art double cadaver lab. A separate facility for logistics, shipping, receiving and instrument processing is located less than a half a mile away from headquarters at 610 Clark Avenue West.



# OUR PRODUCT PORTFOLIO

Dedicated to creating surgeon design solutions in MIS and minimally disruptive access for the treatment of spinal pathology.





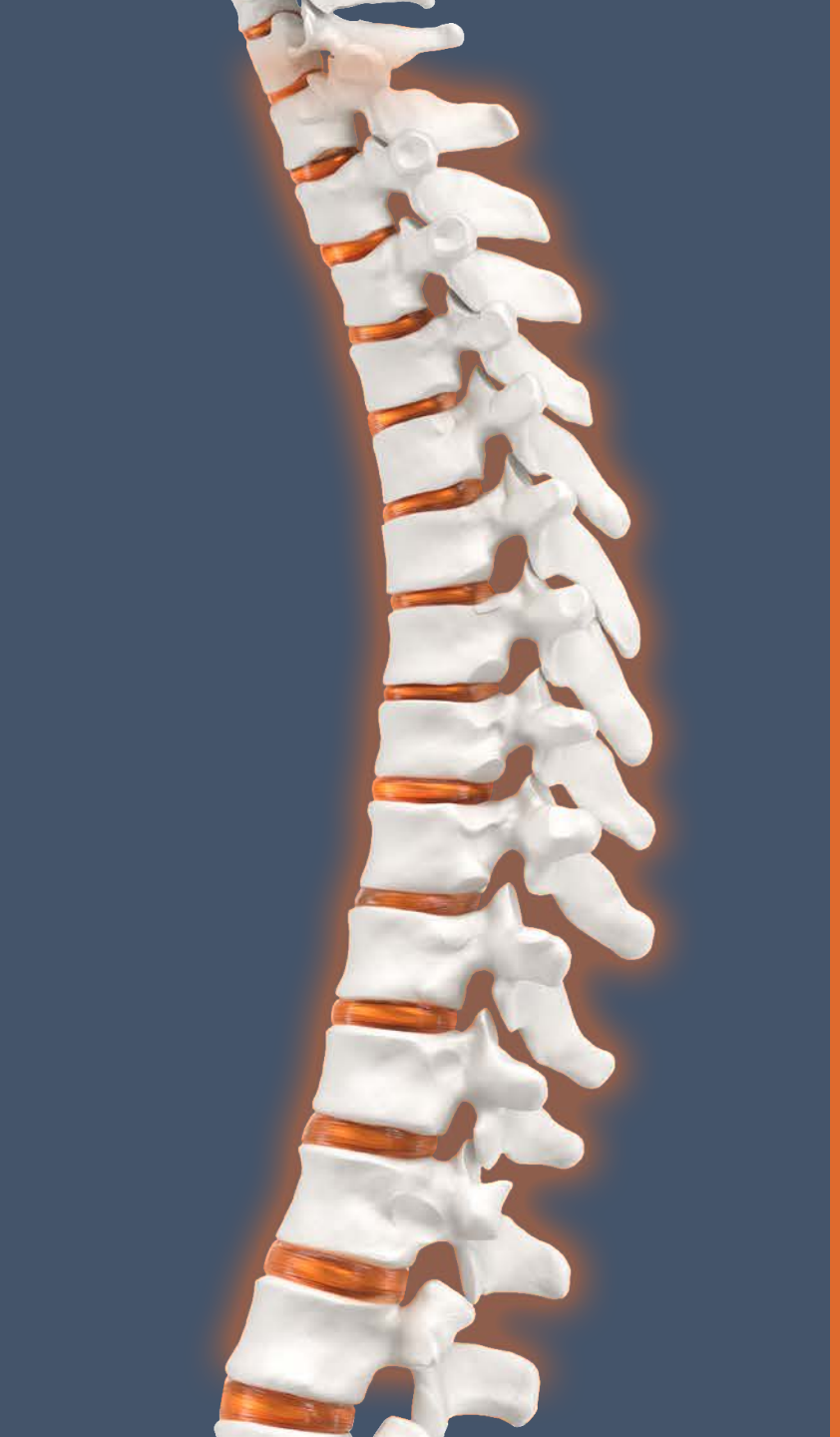
# CERVICAL

## COVERIS®
ANTERIOR CERVICAL SPACER

## FORTICO™
ANTERIOR CERVICAL FIXATION SYSTEM

## SPIRA®-C INTEGRATED
INTEGRATED FIXATION SYSTEM

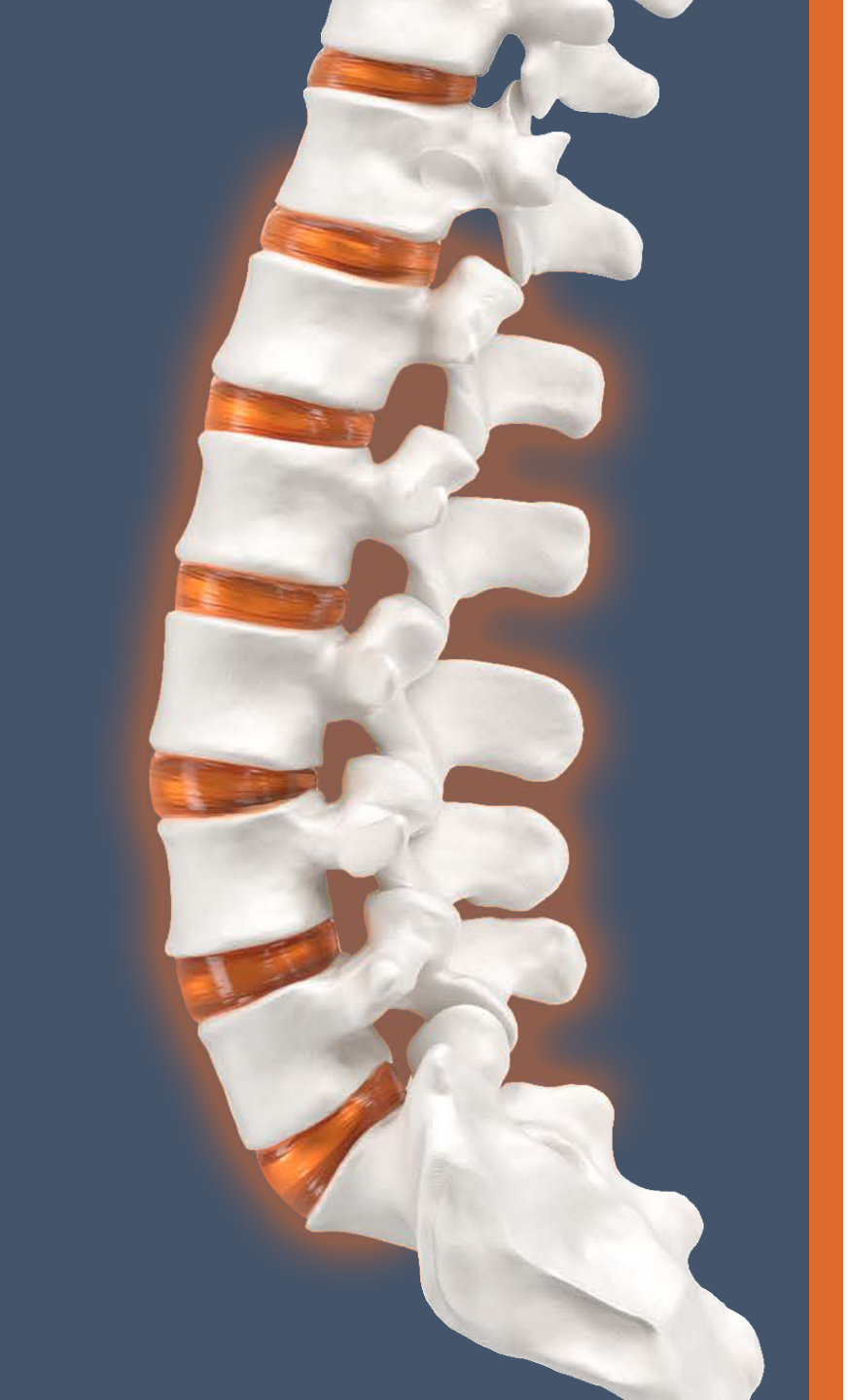
## SPIRA®-C
OPEN MATRIX CERVICAL INTERBODY



# THORACIC

## SPIRA®-V
OPEN MATRIX CORPECTOMY SYSTEM

## VERTA™
CORPECTOMY SYSTEM



# LUMBAR

## ANTERIOR

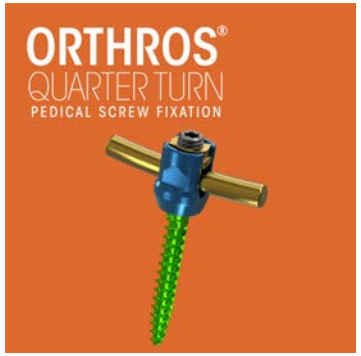


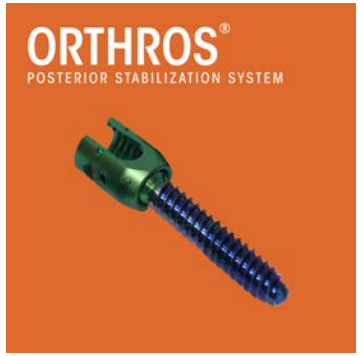
## LATERAL



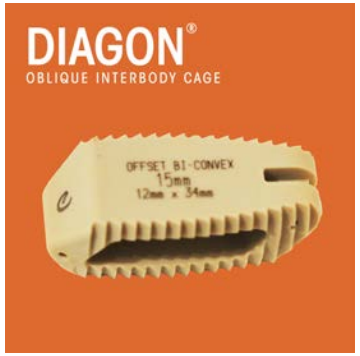
## POSTERIOR



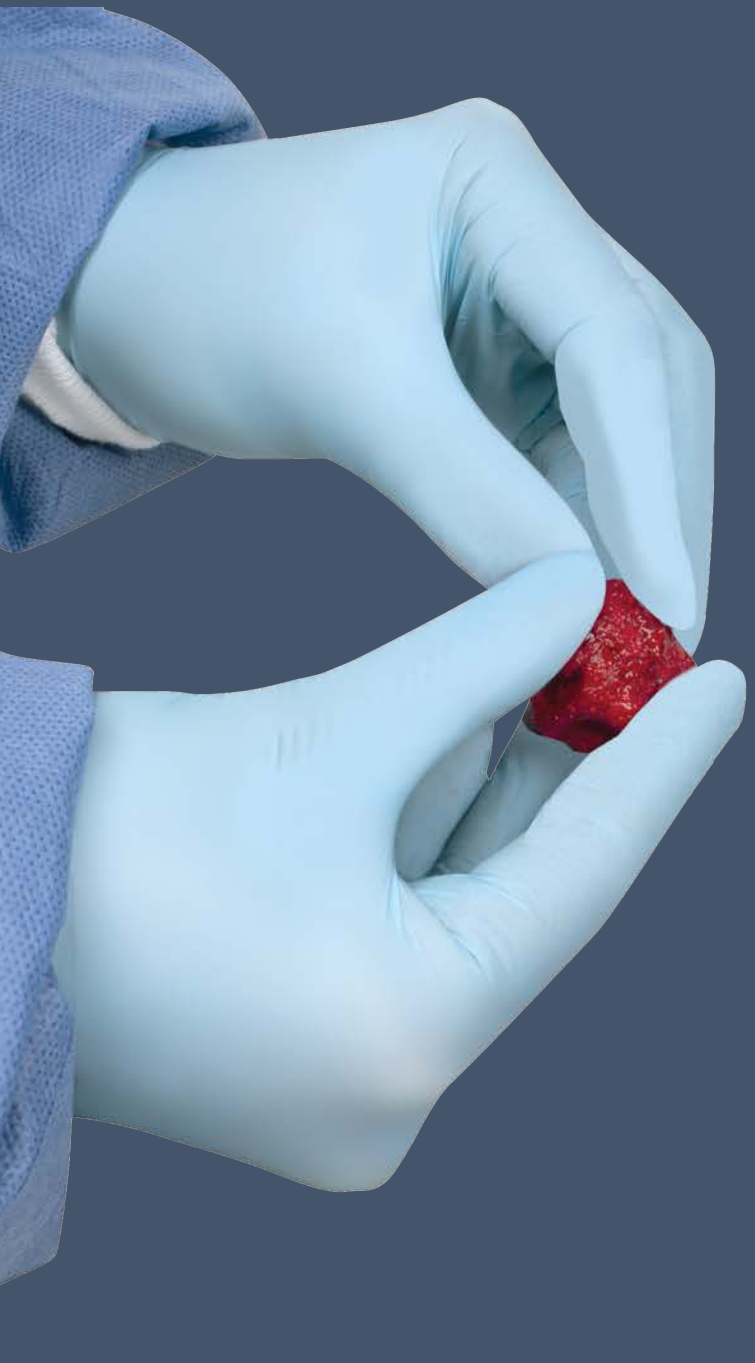






# SACROILIAC

# ORTHROBIOLOGICS


# SPIRA® TECHNOLOGY

PATENTED OPEN ARCHITECTURE ARCH DESIGN

## OUR TWO PROPRIETARY TECHNOLOGY PLATFORMS

# ENZA® TECHNOLOGY

INTEGRATED FIXATION

2019 Orthopedics This Week Spine technology Awards WINNER

# SPIRA® TECHNOLOGY


## SURFACE BY DESIGN®

- Provides immediate stability with surface features designed for significant friction to help prevent motion
- Encourages bone cell proliferation with roughened titanium surface [1,2]
- Promotes “mechanical fusion” bone ingrowth for short-term stability, using trabecular, bone-like surface design, with an average pore diameter of 500µm

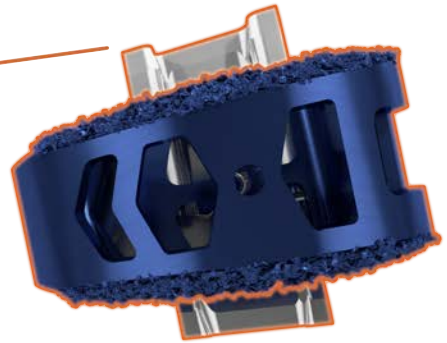
## PATENTED OPEN ARCHED DESIGN

- SPIRA®’s open architecture arched design has large openings for significant graft packing. It decreases the risk of subsidence due to the design’s “snowshoe effect” with up to 40 points of contact.
- The arched design enables a distribution of load and stress throughout the cage which is known from Wolff’s law to enhance fusion protecting fusion zones from stress.
- Ideal surface texture within the nano and micron range to provide cellular microenvironment.*

**Based on in-vitro testing conducted by HSS August 2019. Data on file.*

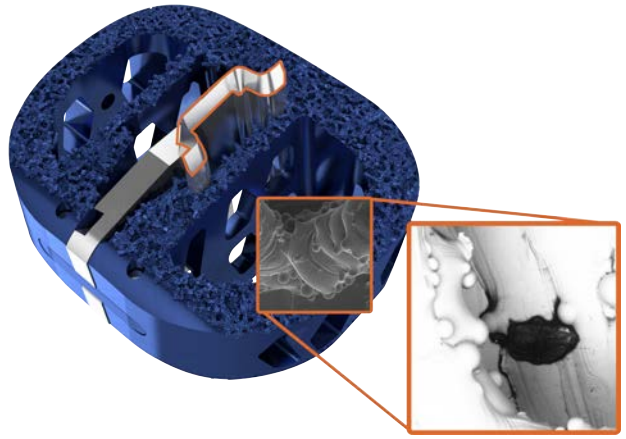
[1] Deligianni, D. D., et al. “Effect of surface roughness of the titanium alloy Ti–6Al–4V on human bone marrow cell response and on protein adsorption.” Biomaterials 22.11 (2001): 1241-1251.
[2] Martin, J. Y., et al. “Effect of titanium surface roughness on proliferation, differentiation, and protein synthesis of human osteoblast-like cells (MG63).” Journal of biomedical materials research 29.3 (1995): 389-401.

# ENZA® TECHNOLOGY



*UNIQUE ANCHORING PLATES PROVIDE IMMEDIATE STABILITY*

*ENGINEERED SURFACE TO PROVIDE CONDUCTIVE SCAFFOLD FOR CELLULAR ADHESION AND MIGRATION*



*INSERTED, DEPLOYED AND LOCKED WITH A SINGLE PASS.*

Scanning Electron Microscopy Imaging of hMSC attachment after a 7-day culture

## ANCHOR PLATE TECHNOLOGY

- Self-contained deployable internal fixation
- Enhances axial stability of adjacent vertebra
- Subsidence resistant surface geometry
- Endplate penetration promotes bone bleeding into graft
- Immediate stabilization can lead to lower post-op pain scores

## SURFACE BY DESIGN®

- Osteopromotive surface*
- Optimal interface contributing to the promotion of cell differentiation and proliferation
- Ideally engineered conductive surface enhancing cellular activity

**Data on file.*

2019 Orthopedics This Week Spine technology Awards WINNER

We aspire to be the leading innovator in spine & medical technologies by building a portfolio of the highest quality, safe, and effective implants & instruments, while advancing technology and treatment options to create better outcomes. This drive to improve patient outcomes fuels our relentless pace of innovation. Our mission is to create a high-performance culture by being a great place to work and by being ethical & accountable to our patients, employees, shareholders, customers, vendors, and distributor partners.

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