

# **Mectac<sup>®</sup>-C SYSTEM**

ANTERIOR CERVICAL FUSION SOLUTIONS

ALL-IN-ONE CERVICAL SYSTEM, EFFICIENCY IN YOUR HANDS



**Brochure**

Joint

**Spine**

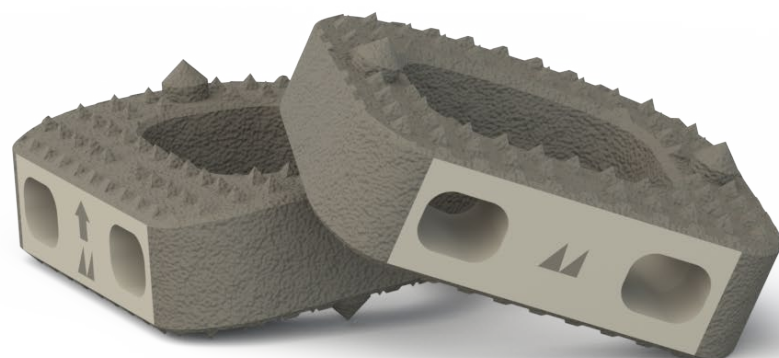
Sports Med

The Mecta-C family of Cervical Interbody Fusion Cages and Anterior Plates represent a complete system to fuse and mechanically support the cervical spine in case of degenerative disease, trauma, tumors and deformity in skeletally mature patients.

Mecta-C implants are available in a wide range of sizes and footprints and with either a dome-shaped or flat superior endplate.

## Mecta-C SYSTEM

Mecta-C is intended for use at one to three levels, from C2-C3 to C7-T1

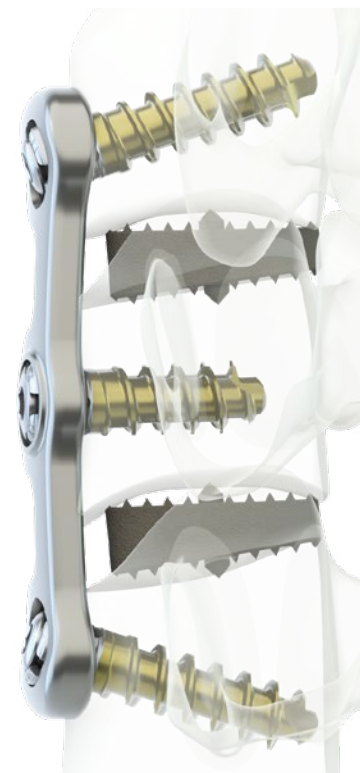


## DIFFERENT CONFIGURATIONS

The All-in-one system allows the surgeon to choose among three main configurations: rigid, semi-rigid or hybrid angle constructs may be built using Fixed or Variable angle bone screws system

### RIGID

Fixed screws allow no micro-movements, being a valid option for secure fixation.<sup>[1]</sup>



### SUPERIOR STABILITY

Beneficial for trauma, tumor and degenerative applications

### SEMI-RIGID

Variable screws allow micro-movements to enhance osteo-integration according to Wolff's Law.<sup>[1]</sup>

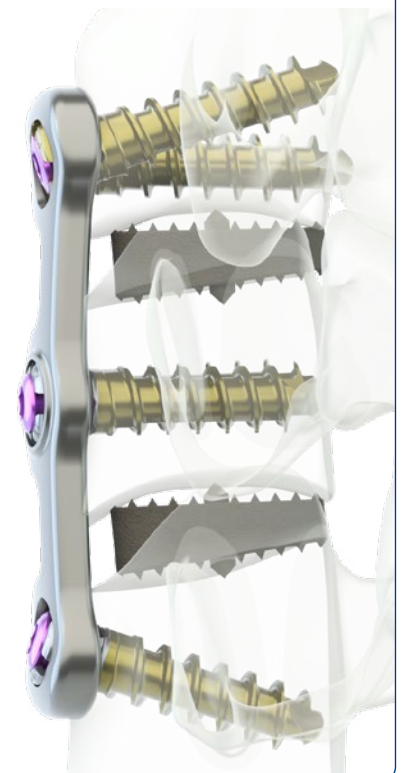


### SLIGHT TOGGLING

Beneficial in multi-level applications where major dynamic stabilization is requested

### HYBRID

Combination of Fixed and Variable screws allow micromovements per chosen segment.



### STABLE CONFIGURATION

Capable of providing proper load sharing

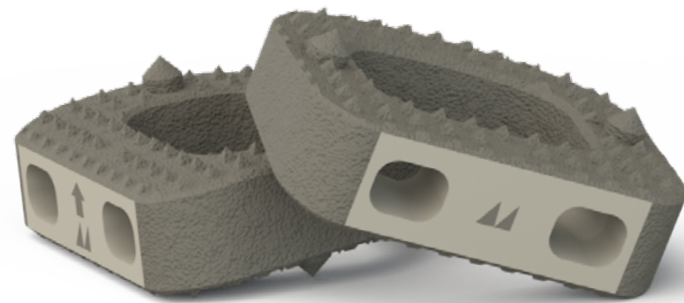
## MATERIALS

- Biocompatible radiolucent PEEK allows a clear assessment of bony fusion through the device. Titanium coating provides osteoconductive features
- The Plate are made of Titanium alloy (Ti-6Al-4V)
- Posterior and anterior marker pins allow for a clear radiographic visualization of the device in the coronal and sagittal planes





The Mecta-C Cage System consists of PEEK and titanium coated PEEK intervertebral fusion devices capable to offer effective load sharing and optimal biocompatibility.

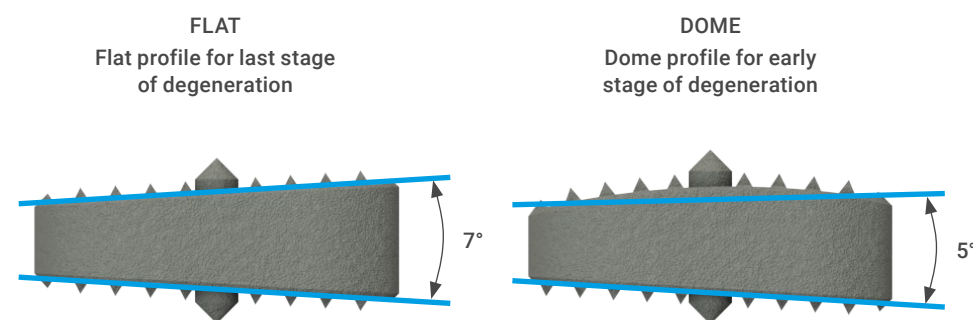


## Mecta-C CAGE

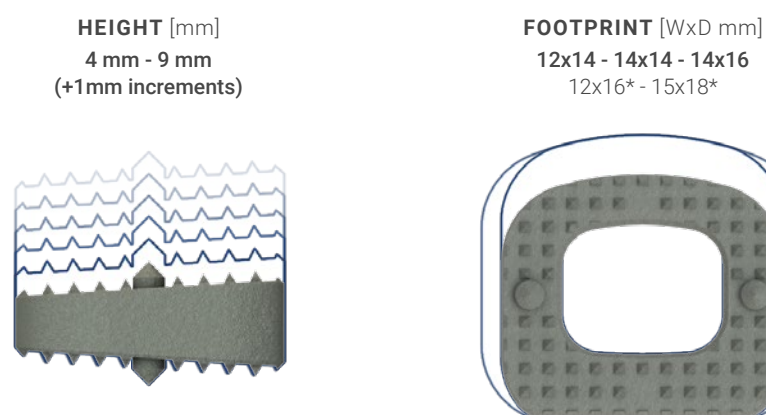
### ANATOMICAL PROFILE

Two different anatomical designs to restore the disc space height and lordosis according to specific patient needs. The physiologic design and the range of available cage sizes allow the surgeon to choose a cage that matches the patient's unique individual anatomy.

#### PROFILE DESIGN



#### PRODUCT RANGE

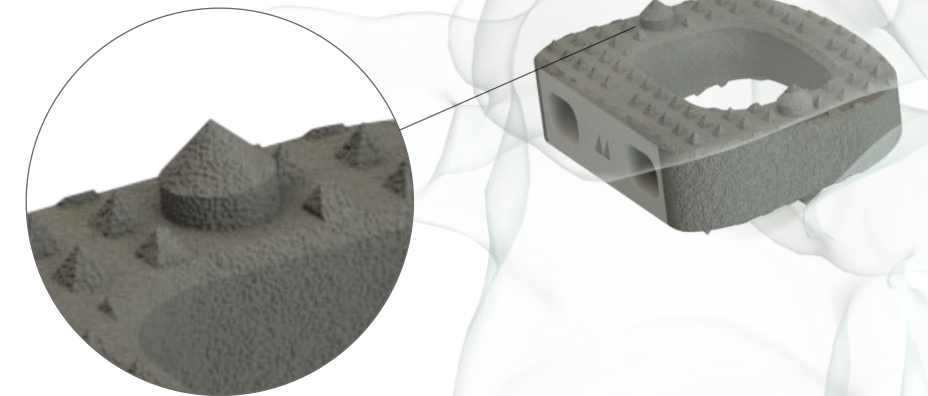


\* On demand

### STABILITY

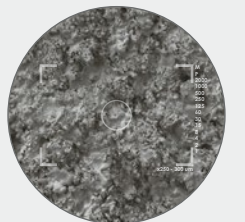
The pyramidal teeth & lateral spikes allow:

- Grip the endplates
- Avoid migration
- Provide multi-directional expulsion resistance



### TIPEEK TECHNOLOGY

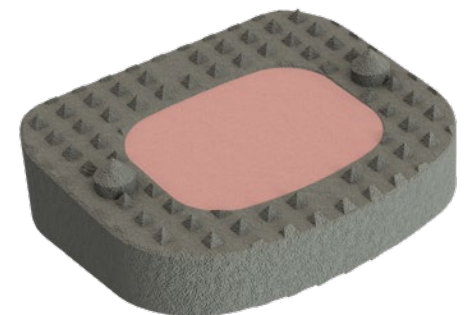
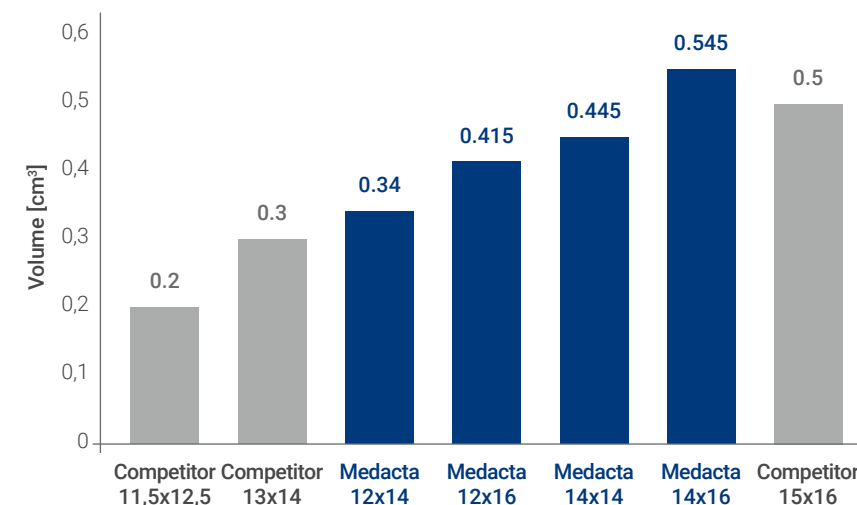
The unique TiPEEK bioactivity in the Mecta-C Cages provides value by improving stability, enhancing fusion rate and boosting an early hydroxyapatite-like layer foundation, facilitating bone formation and allowing for direct bone-implant bond.<sup>[2,3]</sup>



### BONE FILLING VOLUME

Large central bone graft area helps to accelerate the occurrence of fusion through the implant. Mecta-C bone graft volume is higher compared to one of the leading competitor's, as shown in the chart below.

BONE GRAFT VOLUME COMPARISON MECTA-C VS COMPETITOR



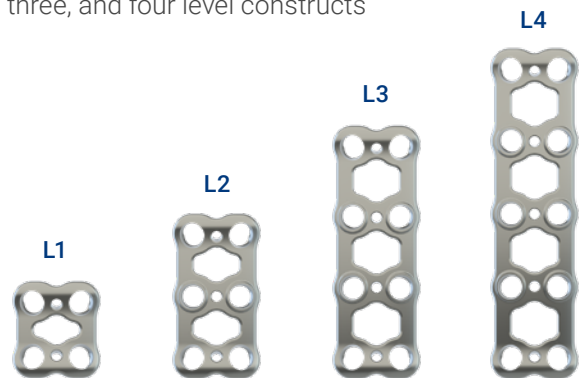
The Mecta-C Plate System is designed to offer biomechanical stability in situ and flexibility in terms of implant range and configurations.



## MECTA-C PLATE

### ANATOMICAL PROFILE - PLATES

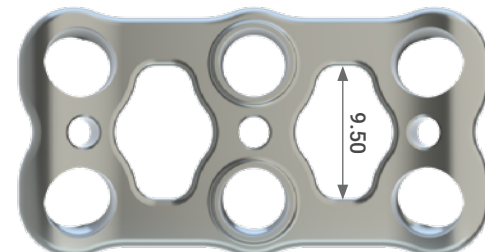
- 4 Plates: L1 - L4
- **Pre-lordosed plates** match the natural curvature of the spine
- Deliver **secure fixation** for one, two, three, and four level constructs



### CENTRAL WINDOW

Large central windows (9.5mm):

- Enhanced graft visibility
- Allow to center the plate to the cage
- Bone growth assessment



### LOW PROFILE

- Less than 2mm
- Reduce soft tissue irritation/dysphagia<sup>[4,5,6]</sup>
- Reduce soft tissue irritation<sup>[7]</sup>

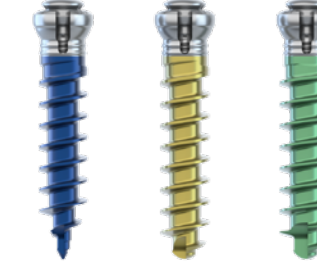
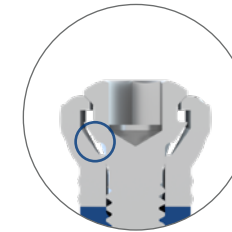


2.6mm thick at cranio/caudal ends

### ANATOMICAL PROFILE - SCREWS

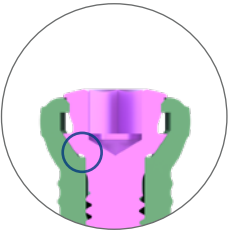
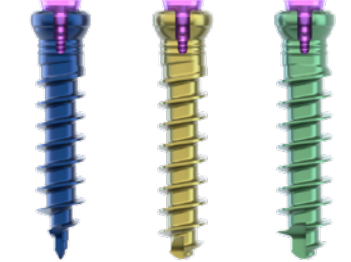
#### FIXED LOCKING SCREWS

The anti-migration screw expands the cervical screw head more to fully lock the cervical screw into the plate.



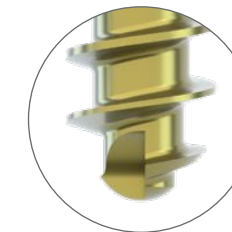
#### VARIABLE SEMI RIGID SCREWS

The mechanical stop in the anti-migration screw limits the head expansion of the cervical screw to leave toggling into the plate.



#### FIXED AND VARIABLE SCREWS TAPPING

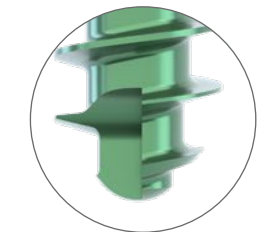
Self drilling, self tapping, and rescue screws are available to accommodate the surgeon's needs in primary as well as revision cases.



SELF-TAPPING PRIMARY



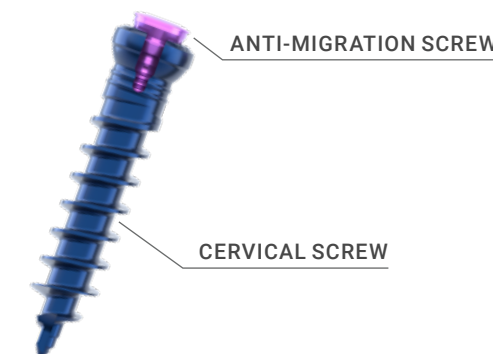
SELF-DRILLING



SELF-TAPPING REVISION

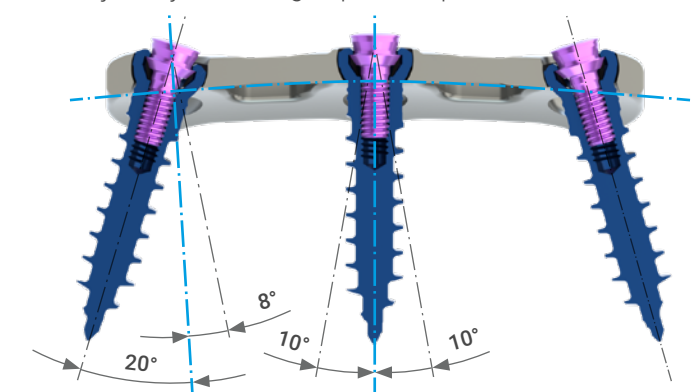
### ANTI-MIGRATION SYSTEM

The anti-migration screw expands the head of the cervical screw and locks it into the plate.



### RANGE OF MOTION

Up to 28° range of motion of the cranial and caudal screws allow the surgeon to choose the desired screw trajectory according to patient specific anatomies.



### REFERENCES

[1] Jan Stulik et al. Fusion and failure following anterior cervical plating with dynamic or rigid plates: 6-months results of a multi-centric, prospective, randomized, controlled study. [2] M. Rickert et al. Transforaminal lumbar interbody fusion in PEEK oblique cages with and without titanium coating: results from a randomized clinical trial 8th M.O.R.E. International Symposium. [3] B. Walsh et al. Titanium coated interbody devices 8th M.O.R.E. International Symposium. [4] Lee MJ, Bazaz R, Furey CG, Yoo J. Influence of anterior cervical plate design on dysphagia: a 2-year prospective longitudinal follow-up study. J Spinal Disord Tech 2005;18:406-409. [5] Cho SK et al. Dysphagia following anterior cervical spinal surgery. Bone Joint J(95B) 868-73, 2013. [6] Singh K et al. Spinal instrumentation - Surgical Techniques (ch. 32) p. 231. [7] Jan Stulik et al. Fusion and failure following anterior cervical plating with dynamic or rigid plates: 6-months results of a multi-centric, prospective, randomized, controlled study.



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**REDEFINING BETTER  
IN ORTHOPAEDICS  
AND SPINE SURGERY**

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Mecta®-C System  
Leaflet

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