

REDEFINING BETTER
IN ORTHOPAEDICS
AND SPINE SURGERY

MEDACTA.COM



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References: [1] Kovács, Ágnes Éva, et al. "Comparative analysis of bone ingrowth in 3D-printed titanium lattice structures with different patterns." *Materials* 16.10 (2023): 3861. 2021 Jan. [2] Van Hede, Dorien, et al. "3D-printed synthetic hydroxyapatite scaffold with in silico optimized macrostructure enhances bone formation in vivo." *Advanced Functional Materials* 32.6 (2022): 2105002. [3] Barba, D., E. Alabort, and R. C. Reed. "Synthetic bone: Design by additive manufacturing." *Acta biomaterialia* 97 (2019): 637-656. [4] Timercan, Anatolie, Vadim Sheremetyev, and Vladimir Brailovski. "Mechanical properties and fluid permeability of gyroid and diamond lattice structures for intervertebral devices: Functional requirements and comparative analysis." *Science and technology of advanced materials* 22.1 (2021): 285-300.

MectaLIF® 3D

OBLIQUE & POSTERIOR

3D METAL LUMBAR INTERBODY FUSION DEVICE

INTERVERTEBRAL BODY FUSION DEVICE



Brochure

Joint Spine Sports Med



Medacta expands its posterior cage portfolio for treating degenerative disc disease with the addition of 3D-printed metal cages, characterized by a gyroid structure designed to resemble trabecular bone.^[1,2]

MectaLIF 3DM Oblique & Posterior cages are indicated for skeletally mature patients suffering from degenerative disc disease at one or two adjacent levels from L2 to S01.

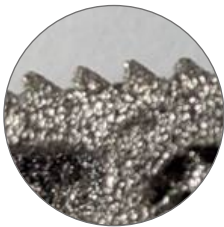
KEY FEATURES

LARGE BONE GRAFT WINDOW

- Allows the placement of significant amount of bone graft to promote bone growth through the interior lumen of the cages.

ENHANCED PRIMARY STABILITY

- The presence of sawblade teeth on the implant surface improves grip with vertebral endplates.
- The preferential direction of the sawblade teeth eases insertion and prevents migration, leading to a lower risk of implant mobilization.



STABLE INSTRUMENT INTERFACE

- Fast and effective connection with the inserter allows for reliable implantation.

OPTIMAL X-RAY VISUALIZATION

- MectaLIF 3D Metal cages allow for easy and clear visualization under fluoroscopy.



3D-PRINTED GYROID STRUCTURE

- The gyroid lattice structure, featuring a 300µm pore size and 80% porosity, enhances osteoblast colonization, vascularization, and permeability.^[3,4]
- The smooth, edge-free design of the gyroid lattice structure facilitates cell attachment.^[1,2,3]



COMPREHENSIVE SYSTEM

The MectaLIF 3DM Oblique & Posterior devices offer a variety of solutions to cover unique patient anatomy and surgical needs.

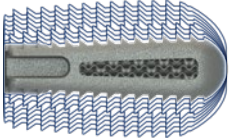
MECTALIF 3DM POSTERIOR

FOOTPRINT (WxD)



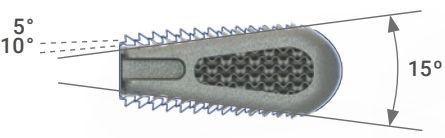
22x9 mm
25x9 mm

HEIGHT



7-15 mm (+1 mm increase)
Including 1.5 mm sawblade teeth

LORDOSIS



5°-15°
5° increase

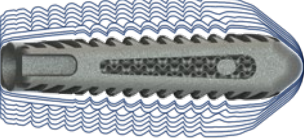
MECTALIF 3DM OBLIQUE

FOOTPRINT (WxD)



24x10 mm
28x10 mm
32x10 mm

HEIGHT



7-15 mm (+1 mm increase)
Including 1.5 mm sawblade teeth

LORDOSIS



5°-20°
5° increase

SYNERGY

MySpine Optimizer software is designed to enhance the preoperative planning phase with a comprehensive suite of tools that **assist surgeons in selecting and positioning cages and screws** based on the patient's unique anatomy and needs. This can help surgeons enhance accuracy and save time in the operating room.

Cage and Screw planning features include:

- Endplate geometry analysis
- Implant footprint view
- Pre- and post-correction evaluations in the sagittal plane
- 2D-3D matching
- Bone mineral density (BMD) color map

