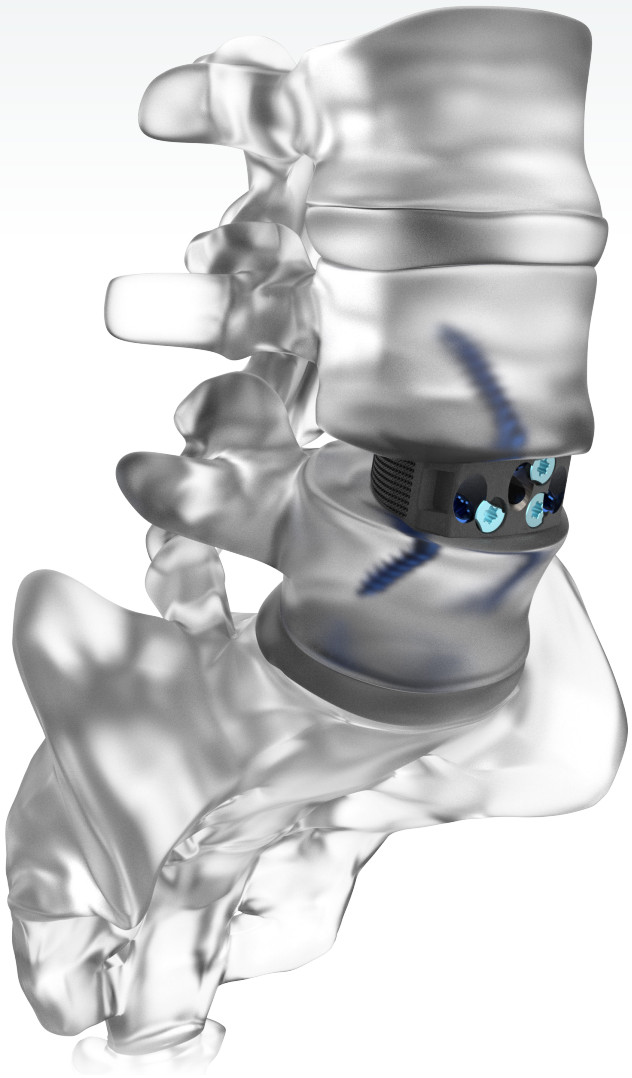
Thoracolumbar Solutions



Anterior Lumbar Solutions

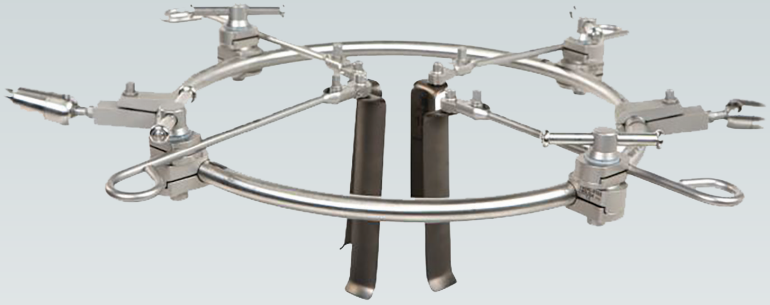
Your Entire Procedure Covered

ZimVie

The ALIF Solution

Access

Zimmer Biomet Anterior Retractor



- Two-point fixation
- Secure blade connection
- Tactile adjustment of blade angulation
- Fixed or rotating blade engagement
- Low-profile user-centered design
- Blades ranging from 60 to 200 mm in length
- Blade widths of 25 and 50 mm

Biologics Solutions

PrimaGen Advanced™ Allograft

- Developed to overcome the limitations of other bone graft substitutes
- Designed to offer a real alternative to autograft
- Contains at least 750,000 cells/cc of cancellous tissue with at least 70% cell viability[1]
- Fiber based bone matrix for convenience and improved handling‡

InterGro® DBM

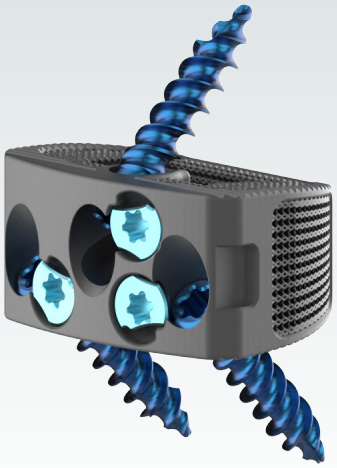
InterGro DBM is a verified, osteoinductive, and demineralized bone matrix in a natural lecithin carrier, and is available as:

- DBM Putty – 40% DBM content by weight
- DBM Paste – 35% DBM content by weight
- DBM Plus – 35% DBM content by weight and premixed resorbable coralline hydroxyapatite/ calcium carbonate granules

Interbody

TrellOss®-A SA Porous Ti Interbody System

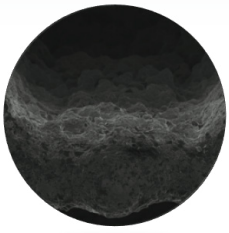
- Anatomically matched profile
- Ample graft window balanced with lattice landscape
- Self-tapping screws designed with tip-to-tail thread pattern
- Integrated one-step turn lock feature
- Optimized location of screw pockets to allow for consistent bone purchase



A New Foundation for Growth

- Scaffolding structure provides additional surface area[2,3]
- 7 micron surface texturing creates an environment for potential cellular adhesion[2,3,4]
- Open architecture with 70% porosity including varying pore sizes of 300, 500, and 700 microns that mimic cancellous bone allowing for a conducive environment for cellular activity[5,6,7,8]

SEM image of TrellOss Surface at 50x magnification



SEM image of TrellOss Surface at 100x magnification

SEM image of TrellOss Surface at 450x magnification

ROI-A® ALIF Cage

- Innovative VerteBRIDGE® plating technology to deliver integrated fixation in the same plane as the disc space
- Multiple footprints, lordosis, and heights for optimized fit
- PEEK-OPTIMA® material for biocompatibility and radiolucency
  - -Tantulum markers for verification of cage positioning
  - -Self-guided, self-locking plating system

Plate Lenghts

20mm 24mm 27mm

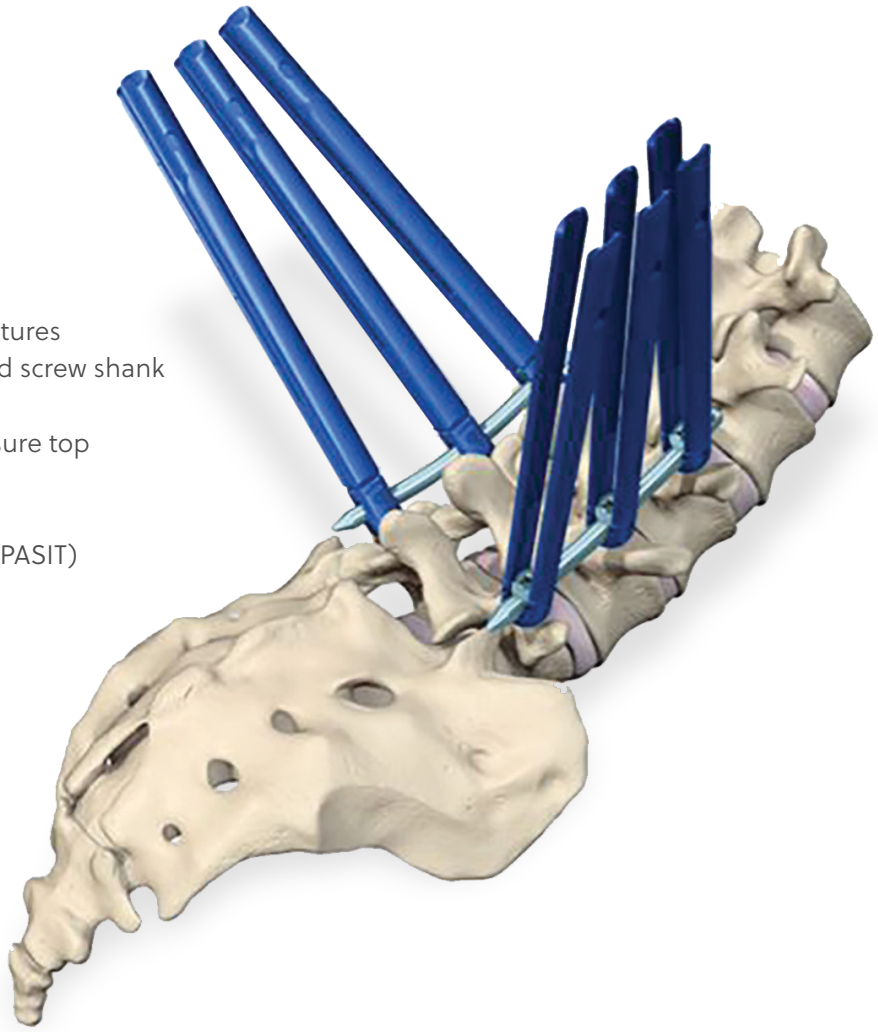
Fixation

Epic™ Anterior Thoracolumbar Plate

- Strong, low-profile plate
- Lumbar and sacral plate options
- Single-step cover plate
- Fixed and variable screw angles
- Unique screw thread design for excellent bone-screw fixation
- 18° conical range of screw insertion angles
- Simple, intuitive instrumentation

Vital™ MIS Spinal Fixation System

- Integrated extension tabs
- Multiple instrument connection features
- Fully threaded cannulated dual-lead screw shank
- T27 Hexalobe drive feature
- Dual-lead reverse angle thread closure top
- Percutaneous rod options
- Pedicle access tool (PAT) and
- Pedicle access screw insertion tool (PASIT)
- Reinforcement sleeve
- Multiple rod inserters



References

1. Feighan, J.E., Goldberg, V.M., Davy, D., Parr, J.A., Stevenson, S. The Influence of Surface Blasting on the Incorporation of Titanium-Alloy Implants in a Rabbit Intramedullary Model, The Journal of Bone and Joint Surgery 77.9 (1995): 1380-96. Web.
2. Olivares-Navarrete R, Hyzy SL, Slosar PJ et al. Implant materials generate different peri-implant inflammatory factors: poly-ether-ether-ketone promotes fibrosis and microtextured titanium promotes osteogenic factors. Spine 2015;40(6):399–404.
3. Olivares-Navarrete R, Hyzy SL, Gittens RA, et al. Rough titanium alloys regulate osteoblast production of angiogenic factors. Spine J 2013;13(11):1563–70.
4. Rao PJ, Pelletier MH, Walsh WR, et al. Spine Interbody Implants: Material Selection and Modification, Functionalization and Bioactivation of Surfaces to Improve Osseointegration. Orthop Surg 2014;6:81–89.
5. Ponader S, von Wilmowsky C, Widenmayer M, et al. In vivo performance of selective electron beam-melted ti-6al-4v structures. J Biomed Mater Res A 2010;92A:56–62.
6. Li JP, Habibovic P, et al.: Bone ingrowth in porous titanium implants produced by 3D fiber deposition. Biomaterials 2007;28:2810.
7. Karageorgiou V, Kaplan D. Porosity of 3D biomaterial scaffolds and osteogenesis. Biomaterials 2005;26(27):5474–91.
8. McGilvray KC, Easley J, Seim HB, et al. Bony ingrowth potential of 3D-printed porous titanium alloy: a direct comparison of interbody cage materials in an in vivo ovine lumbar fusion model. Spine J 2018;18(7):1250-1260.

‡ Data on file.

For more information, visit ZimVie.com

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