



ZIMMER BIOMET

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# Spine Solutions Product Portfolio



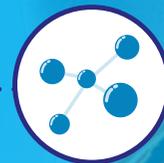
CERVICAL



THORACIC



LUMBAR



BIOLOGICS



ROBOTICS





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Zimmer Biomet is a global leader in spine innovation, dedicated to enhancing the quality of life for patients worldwide by delivering **comprehensive** cervical, thoracolumbar, biologics solutions, robotics and navigation technologies, along with training and clinical support for surgeons.

Our commitment to deliver **innovative** spine products results in an unmatched offering with:

- Clinically-proven and outcome-centered designs.
- Diverse treatment philosophies ranging from fusion to motion preservation and minimally invasive to open approaches.
- Anatomically-comprehensive treatments from occipital-cervico-thoracic to sacrum.
- Relevance for broad patient populations and spine pathologies, such as aging degenerative discs, adolescent deformity and active motion preservation.
- Technological advances, like VerteBRIDGE® and 3D printed titanium.
- Surgery Assisting Technology (SAT) platform of collaborative technologies and services that help surgeons and staff streamline the delivery of care.

# Cervical Solutions



## MOTION PRESERVATION



### **Mobi-C® Cervical Disc**

Mobi-C cervical disc replacement is designed to restore segmental motion and disc height. Mobi-C cervical disc demonstrated superiority compared to fusion for two-level cervical disc replacement at 7 years, based on the primary study endpoint of a prospective, concurrently controlled, randomized, multi-center, FDA clinical trial.

## STAND-ALONE FIXATION



### Optio-C® Anterior Cervical System

The Optio-C implant is the first zero-profile, modular stand-alone cervical device offering allograft and PEEK options with all of the strength, stability, and fusion potential of a traditional ACDF.<sup>1</sup>



### ROI-C® Cervical Cage

The ROI-C cage is a novel zero-profile, stand-alone anterior cervical interbody fusion device. The cage accommodates integrated, self-guided, self-locking VerteBRIDGE Plating designed to provide stability with no instrumentation protruding anterior of the vertebral bodies.

## ANTERIOR FIXATION



### inViZia® Anterior Cervical Plate System

The inViZia plates' generous graft window and narrow implant waist (less than 10 mm) help to provide clear endplate visualization and direct view of the graft's lateral edges. The clear visualization, combined with a low plate profile (less than 2mm) and the Secure-Twist® locking mechanism offer a complete anterior plate solution.



### MaxAn® Anterior Cervical Plate System

The MaxAn plate was designed to help minimize adjacent level ossification.<sup>2-3</sup> The 30° of angulation available in the most cephalad and caudal screw positions help to achieve screw purchase in denser bone and enables the use of shorter plates to maintain ample plate distance from adjacent levels.



### Trinica® Select Anterior Cervical Plate System

The Trinica Select system provides a full range of plate and screw sizes to ensure an anatomic fit with little or no plate contouring required. The Trinica Select design also enables time savings in the OR via a three screw simultaneous lock with the innovative Secure-Twist® Anti-Migration System and DiamondTip Self-Drilling Screws.

## CERVICAL INTERBODY SPACERS

The anterior cervical interbody portfolio includes PEEK, allograft, 3D printed titanium, and Trabecular Metal™ Technology spacers, providing a variety of material and sizing options for surgeon needs.



**Puros®-S and Puros®-S2 Cervical Interbody Allograft Implants**



**TM-S Fusion Device with Trabecular Metal™ Technology**



**TrellOss™-C Porous Ti Interbody System**



**Trinnect® Hydrated Anterior Cervical Spacer System**



**Vista®-S Device in PEEK-OPTIMA®**

## POSTERIOR FIXATION



### **Lineum® OCT Spine System**

The Lineum posterior cervical reconstruction system features a broad range of construct options and procedurally efficient instrumentation. The system's Translation™ Screw technology offers 3mm of medial-lateral translation in the screw head which simplifies screw placement and rod contouring, while minimizing stress to the construct.



### **Virage® OCT Spinal Fixation System**

The Virage OCT system features an innovative 360° Omnidirectional Extreme-Angle Screw that simplifies rod alignment. This unique screw also allows for a 112° conical range of motion to facilitate optimal screw placement.

# Thoracolumbar Solutions



## LATERAL



### Avenue® L Lateral Lumbar Cage

Avenue L is a novel zero-profile, lateral lumbar interbody fusion device. The cage accommodates integrated, self-guided, self-locking VerteBRIDGE Plating designed to aid stability with no instrumentation protruding lateral of the vertebral bodies.



### Timberline® Lateral Fusion System

The Timberline System is a modular, lateral retractor system with the versatility for both transpsoas and oblique (4/5) approaches. A wide array of implant sizes, fixation options and instruments designed for challenging anatomy rounds out this complete lateral solution.



### TrellOss™-L Porous Ti Interbody System

A 3D printed titanium interbody platform featuring a scaffold structure with 70% porosity and a 7 micron roughened surface topography to foster a cellular relevant environment for adhesion and bone ingrowth.<sup>4</sup>

## THORACOLUMBAR FIXATION – DEGENERATIVE AND DEFORMITY



**The Tether™ Spinal Fixation System**  
 The Tether is a non-fusion spinal device intended for use as a spinal tether. An anchor and bone screw are placed from a lateral approach into the spine on the convex side of a spinal deformity. A cord is secured to the bone screws with set screws to connect the levels of the construct, providing a lateral tension band to the spine that can arrest or correct the deformity.



**Vital™ Spinal Fixation System**  
 The Vital System is designed to treat a wide variety of spinal pathologies from the thoracic spine to the ilium and to allow surgeons the flexibility to build constructs that meet the anatomical challenges associated with complex spine procedures. The Vital System instrumentation is designed for ergonomic comfort within a surgically efficient system layout. The expansive offering of reduction and manipulation instruments, and advanced array of implants supports complex spinal surgery with ease of use and expediency of implantation at their core.



**Vital™ Power Instrument Kit**  
 The addition of powered pedicle preparation is a tremendous benefit to surgeons, as compared to traditional hand-driven pedicle preparation and insertion. It's the market's first drill bits and blunted reamers designed to resist cortical bone, provide tactile feedback, and ensure precision during pedicle preparation and implant insertion.

## MIS FIXATION



**Alpine XC™ Adjustable MIS Fusion System**  
 The Alpine XC system offers a spinous process fixation device with an adjustable, fenestrated core and adjustable length plates. The Alpine XC implant is inserted in a collapsed configuration enabling a minimally invasive exposure and the telescoping ability allows for plate compression and distraction.



**Vital™ MIS System**  
 The Vital MIS System is an extended tab percutaneous screw delivery system that offers a broad range of cannulated implants and specialized instrumentation for a minimalized, percutaneous or mini-open approach. Designed to provide surgeons with the flexibility to utilize instrumentation based on their personal technique, preference and specific patient needs.



**TriCor™ Sacroiliac Joint Fusion System**  
 The TriCor implant facilitates bony fusion across the sacroiliac joint using a repeatable lateral approach. The implants feature dual pitch compression threads to aid joint compression, while generous fenestrations enable bone graft introduction.

## LUMBAR INTERBODY SPACERS



### ROI-A® ALIF Cage

The ROI-A cage is a novel zero-profile, stand-alone, anterior-lumbar interbody fusion device. The cage accommodates integrated, self-guided, self-locking VerteBRIDGE Plating designed to provide stability with no instrumentation protruding anterior of the vertebral bodies.



### Durango® ALIF System

The Durango device is a modular, integrated plate and interbody system for stand-alone ALIF fusion. The plate component is available in three configurations with fixed and variable screw angles to tailor the implant to the patient's anatomy.



### InFix® Anterior Lumbar Device

The InFix implant features an advanced load-sharing strut design that provides a modulus of elasticity that mimics that of natural bone to better promote bone growth while retaining the strength of titanium. The modular design allows for independent selection of height and lordotic angle.



### ProLift® Expandable Interbody System

The ProLift with Osseo-Loc™ Surface Technology, provides a micro-invasive solution for TLIF and PLIF procedures with in situ expansion for restoration of normal anatomic disc height and decompression of neural elements.



### TrellOss™-TS & TrellOss™-TC Porous Ti Interbody System

A 3D printed titanium interbody platform featuring a scaffold structure with 70% porosity and a 7 micron roughened surface topography to foster a cellular relevant environment for adhesion and bone ingrowth.<sup>4</sup>

The lumbar interbody portfolio includes PEEK, allograft, 3D printed titanium, and Trabecular Metal™ Technology spacers, providing a variety of material and sizing options for surgeon needs.



### Breckenridge® ALIF Interbody in PEEK



### Puros® A and Puros® P Anterior and Posterior Allograft Implants

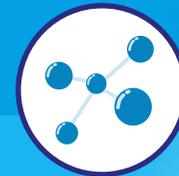


### Trabecular Metal™ Technology Lumbar Interbody Devices and Vertebral Body Replacements



### Zyston® Straight and Curve Interbody Spacer System in PEEK

# Biologic Solutions



## InterGro® DBM & DBM Fibers

InterGro DBM has been scientifically formulated to deliver optimized characteristics without compromise: preferred handling, verified osteoinductivity,<sup>5</sup> and optimized active DBM content.<sup>6</sup> The natural quality of the carrier and its outstanding containment and handling characteristics enable the surgeon to mold it to surgical sites, even in the presence of excessive fluids and under lavage. InterGro is available in putty, paste, plus (premixed with resorbable coralline hydroxyapatite/calcium carbonate granules), and fibers (100% DBM, no carrier, and must be hydrated with saline, blood or bone marrow aspirate).



## PrimaGen Advanced® Allograft

PrimaGen Advanced Allograft is a fresh frozen allograft, which is cryopreserved and processed using a proprietary processing method to retain endogenous components of the native bone that support bone healing. It possesses all three components of the bone healing triad: osteoconductivity, osteoinductivity, and osteogenicity. The combination of morselized cancellous bone and demineralized cortical bone provides a bone grafting scaffold.<sup>7</sup>

The biologics portfolio offers a broad range of products including advanced allografts, DBMs, synthetics and other traditional tissue offerings.



CopiOs® Bone Void Filler



Indux™ Cancellous



Indux™ Cortical Strips



Platform™ CM



Pro Osteen® 200R and 500R



Puros® DBM with Reverse Phase Medium

# Robotics and Navigation



## **ROSA® One Spine**

ROSA ONE Spine is a robotic and surgical navigation system designed to aid surgeons in performing minimally invasive thoracolumbar spine procedures. ROSA ONE Spine is designed to accommodate the surgical workflow.



## **WalterLorenz® Surgical Assist Arm**

The WalterLorenz is a bionic, electromechanical arm aiding surgical retraction and instrument positioning by reducing fatigue, optimizing site exposure, and improving the overall academic experience and efficiency in the surgical environment.

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