



ZIMMER BIOMET

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Thoracolumbar Solutions

# Timberline®

## Lateral Fusion System

The Timberline Lateral Fusion System is a comprehensive MIS lateral approach solution featuring a robust, intuitive and radiolucent retractor designed to improve visualization and minimize migration, especially at challenging levels—all accompanied by a best-in-class implant portfolio.

# Power YOUR BEST WORK

Featuring an industry-leading retraction system and a complete portfolio of implants and instrumentation, the Timberline System is designed **to refine your lateral approach procedures, maximize fusion potential and reshape the patient experience.**



## Efficiency

By reducing the number of steps and calibrations needed for each procedure, this system streamlines your surgical experience.



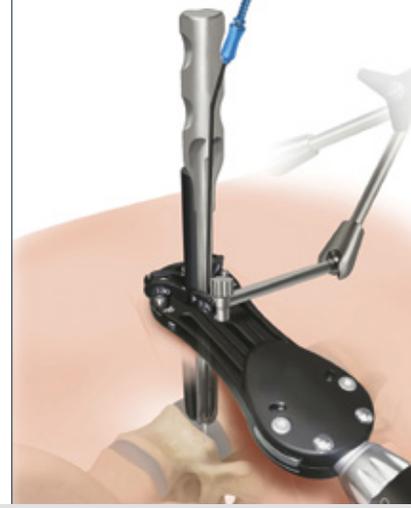
## Flexibility

The comprehensive and complementary nature of this system's components allows you to develop tailored solutions for your most challenging scenarios.



## Safety

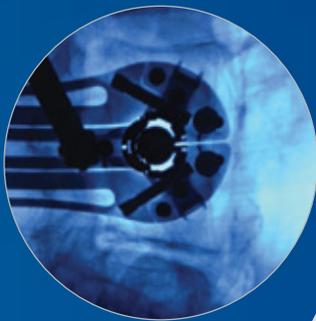
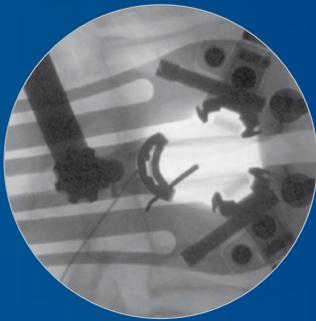
This system is designed specifically to capitalize on the benefits of MIS lateral procedures by promoting decreased blood loss, shorter operation times and less tissue disruption<sup>1</sup>.



## Experience Superior Clarity with Your Lateral Approach Procedures

Engineered to help you address the complexities of challenging levels and varying anatomies, the retraction system features an **intuitive, streamlined design and is built specifically to expand your visualization capabilities.**

- **Radiolucent construction and modular design**  
Provides simplified functionality and improves fluoroscopic visualization
- **Infinite resolution retraction mechanism**  
Allows for more precise control over the size and nature of the surgical corridor
- **Integrated posterior shim**  
Eliminates the step of insertion and prevents unwanted retractor migration
- **Intraoperative neuromonitoring compatibility**  
Allows stimulation via the dilators and retractor blades
- **Fiber-optic light source**  
Produces exceptional illumination without excess heat
- **Toeing up to 20°**  
Enhances workspace customization



## Incorporate Implants Designed to Address Your Most Challenging Cases

The Timberline System offers a wide range of implant solutions—including coronal taper options—that are designed to treat all lateral-accessible pathologies. This complete portfolio of spacer and plate options is **purpose-built for *in situ* decision making, bringing a new level of customization and efficiency to your surgical processes.**



FOOTPRINT	LORDOSIS	LENGTHS	HEIGHTS
16mm	0°   8°	25mm–40mm	6mm   8mm   10mm   12mm
18mm	0°   8°	45mm–60mm	8mm   10mm   12mm   14mm   16mm
22mm	0°   8°   20°   30°	45mm–60mm	8mm   10mm   12mm   14mm   16mm
26mm	0°   8°	45mm–60mm	8mm   10mm   12mm   14mm   16mm
Coronal Taper (18mm)	0°   8°	45mm–60mm	10mm   12mm   14mm

*The Timberline System also includes one of the most comprehensive disc preparation systems available, featuring angled instrumentation, streamlined disc preparation and thoracic approach instrumentation.*



## Achieve Improved Anterior Column Support and Fixation

The Timberline Lateral Modular Plate Fixation (MPF) System is the first lateral spacer system that has the ability to incorporate a modular titanium plate to assist with fixation of the lumbar spine. In addition to improving areas for fusion and promoting seamless anatomy matching, this advanced system **streamlines lateral plating, eliminating the issues that arise from plate movement during screw hole preparation.**



### Variable Screw Angulation 0°–20°

- Offers neutral trajectory for optimal cortical bone purchase
- Variable screw angle helps to avoid adjacent-level constructs
- Helps avoid inadvertent anterior or posterior screw trajectory with a plate design that limits screw divergence

### In Situ Plate Assembly

- Offers surgeons a selection of intra-operative fixation choices, with 1-, 2- and 4-screw plate options

### Timesaving Instrumentation

- Simplifies screw preparation with a plate that is attached to the spacer
- Promotes security and simplicity through a single-step cover plate that prevents screw back-out

## Optimize Sagittal Balance

As the first formally cleared lateral approach hyperlordotic implant, the Timberline MPF Hyperlordotic Interbody Spacer features a first-of-its-kind modular plate design. With a variety of lordotic spacer options—including a single-screw titanium plate construct that prevents migration—**surgeons can achieve acute sagittal correction of the lumbar spine from a lateral approach.**



### Key Features

- 20° to 30° lordotic spacers
- Longitudinal ridges on implants and trials to help prevent anterior expulsion
- Instrumentation designed to improve the safety of anterior longitudinal ligament release



The Timberline System is indicated for use with supplemental fixation.



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**Reference:**

1. Rodgers, W.B., et al. Intraoperative and Early Postoperative Complications in Extreme Lateral Interbody Fusion: An analysis of 600 cases. *Spine*. January 2011. 36(1): 26–33.

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