



# Trinica<sup>®</sup> Anterior Lumbar Plate System



The perfect ending to a lumbar fusion procedure.



# Experience the perfect ending with the Trinica® Anterior Lumbar Plate System.

Match vertebral body variation with multiple plate configurations for optimal bone-plate interface. Improve flexibility with the only plate that accommodates both fixed and variable screws. Complete the procedure with one simple twist of the wrist. The perfect ending is possible with the Trinica Anterior Lumbar Plate System (ALP).



## Lock the plate with one twist of the wrist.

Innovative *Secure-Twist* anti-migration system secures screws for one-step locking.



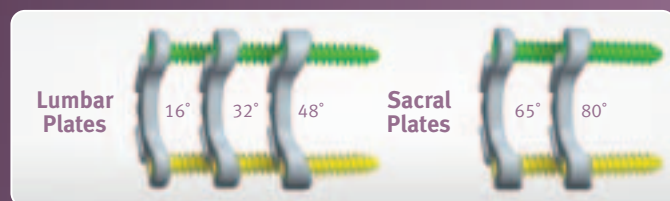
## Fill the bone-plate gap.

The *Trinica* ALP system accommodates vertebral body variation, providing multiple plate configurations that vary material depth and curvature at the plate lip to close the gap between plate and bone. This unique bone deficit-filling design allows for optimal bone-plate interface, which can increase stabilization and reduce effective profile.



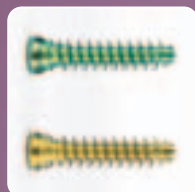
## Select from multiple plate configurations.

Both lumbar and sacral plates are available in several deficit-filling configurations.



## Use fixed and variable screws on the same anatomy.

Only the *Trinica* ALP system gives you the ability to combine fixed and variable screws to meet anatomical variations.



## Choose instrumentation that makes implantation easier.

The All-Through-One (ATO) Guide uses multiple cephalad/caudal trajectory guide tubes to accommodate drilling, tapping and screw insertion, providing consistent reproducible screw placement while protecting soft tissue.



## Specifications

### Lumbar Plates

Plate Sizes*	Width	Degree of Deficit Filling Feature
35 mm-43 mm	26 mm	16° / 32° / 48°
45 mm-51 mm	26 mm	16°

### Sacral Plates

Plate Sizes*	Width	Degree of Deficit Filling Feature
35 mm-41 mm	26 mm	65° / 80°
43 mm-47 mm	26 mm	65°

### Fixed Screws

22-34 mm in 2 mm increments

### Variable Screws

22-34 mm in 2 mm increments

\*In 2 mm increments.

## Trinica® Anterior Lumbar Plate System

### DEVICE DESCRIPTION:

The *Trinica*® Anterior Lumbar Plate System is a temporary supplemental fixation device consisting of a variety of shapes and sizes of plates and screws. The *Trinica* Anterior Lumbar Plate System is used as an implant for the correction and stabilization of the spine. This system provides temporary stabilization and augments the development of a solid spinal fusion. Additionally, this system provides the surgeon with the ability to supplement an interbody device with anterior plate fixation. The *Trinica* Anterior Lumbar Plate System components can be locked into a variety of configurations and each construct may be customized to individual cases. The plates are low profile and anatomically designed to provide optimal fit from either anterior or anterior-lateral approach. This system also features anti-migration locking caps to help secure the fixation screws. All *Trinica* Anterior Lumbar Plate System implant components are made from titanium alloy (Ti-6Al-4V).

### INDICATIONS:

The *Trinica* Anterior Lumbar Plate System is indicated for use via the lateral or anterolateral surgical approach above the bifurcation of the great vessels or via the anterior surgical approach, below the bifurcation of the great vessels. This system is indicated in the treatment of lumbar or lumbosacral (L1-S1) spine instability as a result of fracture (including dislocation and subluxation), tumor, degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), pseudoarthrosis, spondylolisthesis, scoliosis, lordotic deformities of the spine, spinal stenosis, or a failed previous fusion.

### CONTRAINDICATIONS:

Contraindications for the *Trinica* Anterior Lumbar Plate System include:

- Use in the cervical spine
- Active systemic or local infection
- Local inflammation with or without fever or leukocytosis
- Pregnancy
- Obesity
- Alcohol or drug abuse
- Use in the posterior elements (pedicles) of the cervical, thoracic, or lumbar vertebrae
- Where attempted correction exceeds the limits of physiological conditions.
- Uncooperative patients or patients with neurological disorders or mental illness rendering the patient incapable of or unwilling to follow instructions
- Inability to restrict high activity level
- Suspected or documented metal allergy or intolerance. Any case needing to mix metals from different components
- Poor prognosis for good wound healing (e.g. decubitus ulcer, end-stage diabetes, severe protein deficiency and/or malnutrition)
- Failure to explant the device after bony fusion
- Any medical or surgical condition that would preclude the potential benefit of spinal implant surgery or prevent secure component fixation that has the potential to decrease the useful life of the device, such as the presence of tumors or congenital abnormalities, elevation of sedimentation rate unexplained by other diseases, elevation of white blood count (WBC), or a marked left shift in the WBC differential count
- Rapid joint disease, bone absorption, osteopenia, and/or osteoporosis
- Osteoporosis is a relative contraindication because the condition may limit the degree of obtainable correction and/or the amount of mechanical fixation
- Any case not needing a bone graft and fusion or requiring fracture healing
- Any patient with inadequate tissue coverage over the operative site, or inadequate bone stock or bone quality such as in the sacrum
- Any time implant utilization would interfere with anatomical structures or expected physiological performance
- Diseases or conditions other than those specifically described here or in the indications section

Contraindications of this device are consistent with those of other anterior spinal instrumentation systems. This spinal implant system is not designed, intended, or sold for uses other than those indicated.

### GENERAL WARNINGS AND PRECAUTIONS:\*

**A. IMPLANT SELECTION.** The selection of the proper size, shape and design of the implant for each patient is crucial to the success of the procedure. Metallic surgical implants are subject to repeated stresses in use, and their strength is limited by the need to adapt the design to the size and shape of human bones. Unless great care is taken in implant selection, proper placement of the implant, and postoperative management to minimize stresses on the implant, such stresses may cause metal fatigue and consequent breakage, bending or loosening of the device before the healing process is complete. This may in turn result in further injury or the need to remove the device prematurely.

Implantation of foreign material in tissues can elicit an inflammatory reaction. Current literature suggests that wear debris (including metal, polyethylene, and cement particles) can initiate the process of histiocytic granuloma formation and consequent osteolysis and loosening.

Metal sensitivity has been reported following exposure to orthopedic implants. The most common metallic sensitivities are a result of the presence of nickel, cobalt, and chromium found in medical grade stainless steel and cobalt-chrome alloys.

The *Trinica* Anterior Lumbar Plate System instrumentation should only be used after the surgeon has had adequate training in this method of fixation and is thoroughly knowledgeable about the spinal anatomy and biomechanics. A surgical technique for the *Trinica* Anterior Lumbar Plate System is available upon request. This technique is not a substitute for training and is for general informational purposes only.

Components from other anterior lumbar plating systems must not be intermixed with the *Trinica* Anterior Lumbar Plate System components since compatibility of these components is not known.

Do not use implants made from dissimilar metals (such as cobalt chromium-molybdenum or stainless steel) in contact with components of the *Trinica* Anterior Lumbar Fixation System; otherwise, galvanic corrosion may occur.

### PHYSICIAN NOTE:

Although the physician is the educated intermediary between the company and the patient, the important medical information given in this document should be conveyed to the patient.

\*For a complete description of Warnings and Precautions, please refer to Instructions for Use.

Contact your Zimmer Spine representative or visit us at [www.zimmerspine.com](http://www.zimmerspine.com)



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