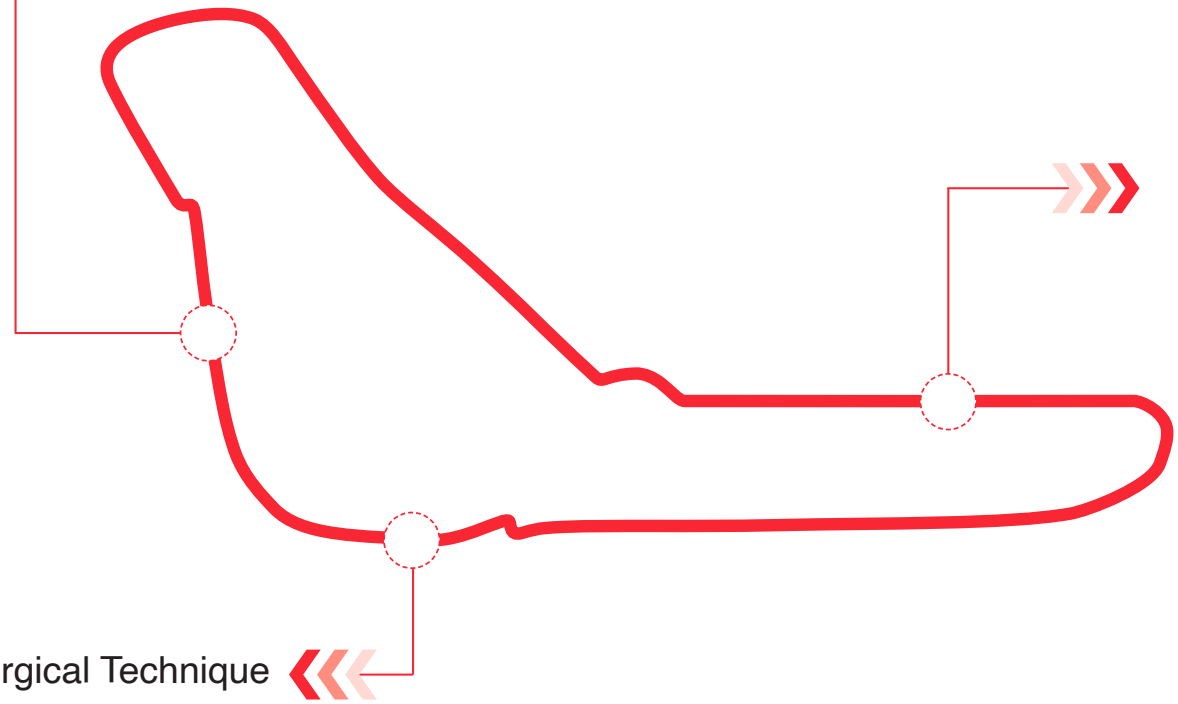
AltusSpine



Monza Cervical Plate Surgical Technique

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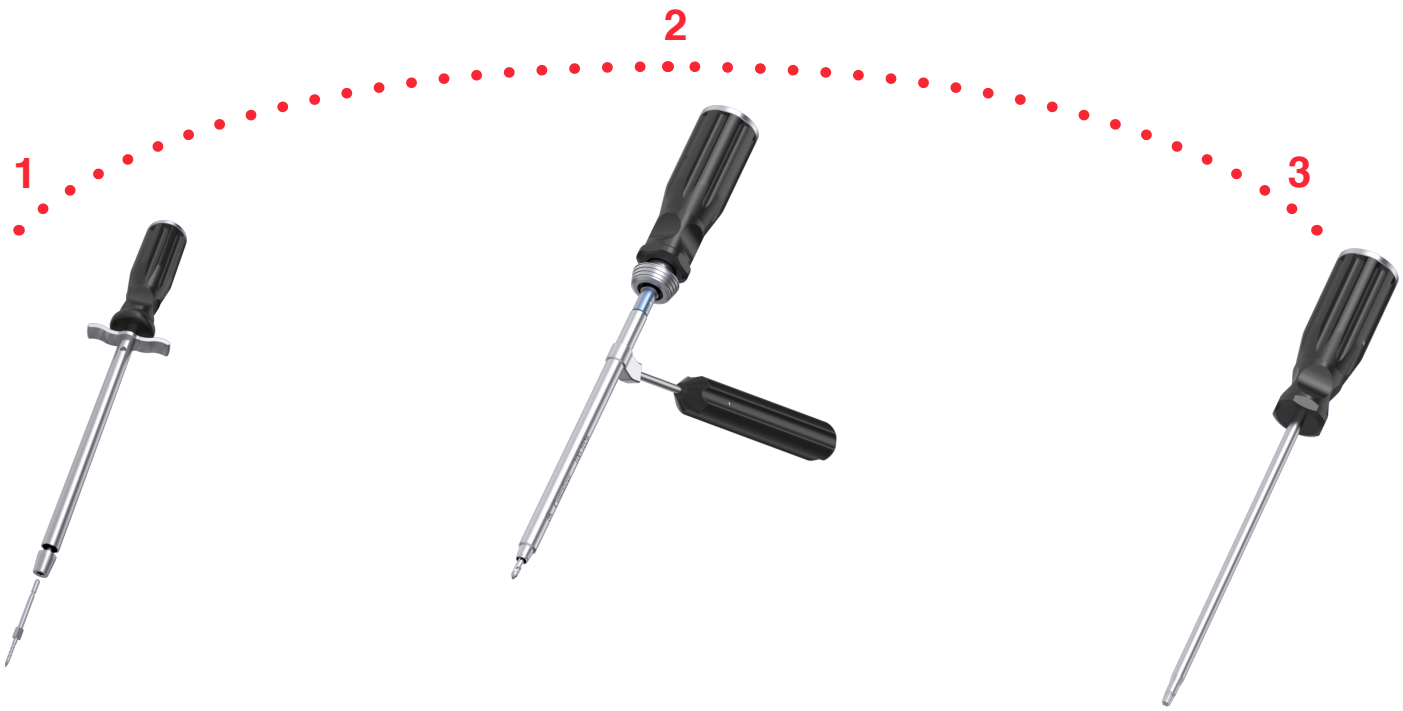


Indications for use

Surgical Technique

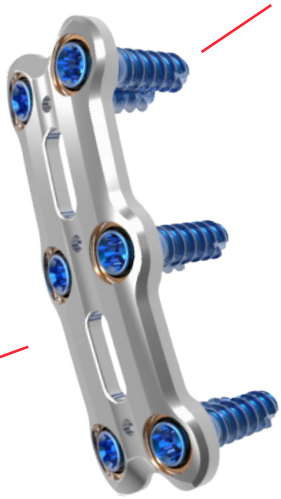
1. Plate Selection
2. Screw Preparation
3. Final Screw Locking
4. Screw Removal

DESIGN RATIONALE



Self-Aligning &
Self-Locking mechanism

Self-Drilling &
Self-Tapping Screws



Smooth, low profile
plate, 1.98 mm



Pre-Lordosed
Anatomic Fit

Variable & Fixed
Angle Screws

INDICATIONS FOR USE

The Altus Spine Monza Cervical Plate System is intended for anterior interbody fixation of the cervical spine. The system is indicated for use in temporary stabilization of the anterior spine during the development of the cervical spine fusions in patients with degenerative disc disease (as defined by neck pain of the discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies); trauma (including fractures), tumors, deformity (defined as kyphosis, lordosis, or scoliosis), pseudarthrosis and/or failed previous fusions. The Altus Spine Cervical Plate System can be implanted in the sub-axial cervical spine from the C3 through C7 levels.

Please refer to product insert (PI-004) for complete system description, warnings, and precautions

*Covered by U.S. Patent No.: 7,524,325.
Other U.S. and foreign patents additionally pending

1. PLATE SELECTION

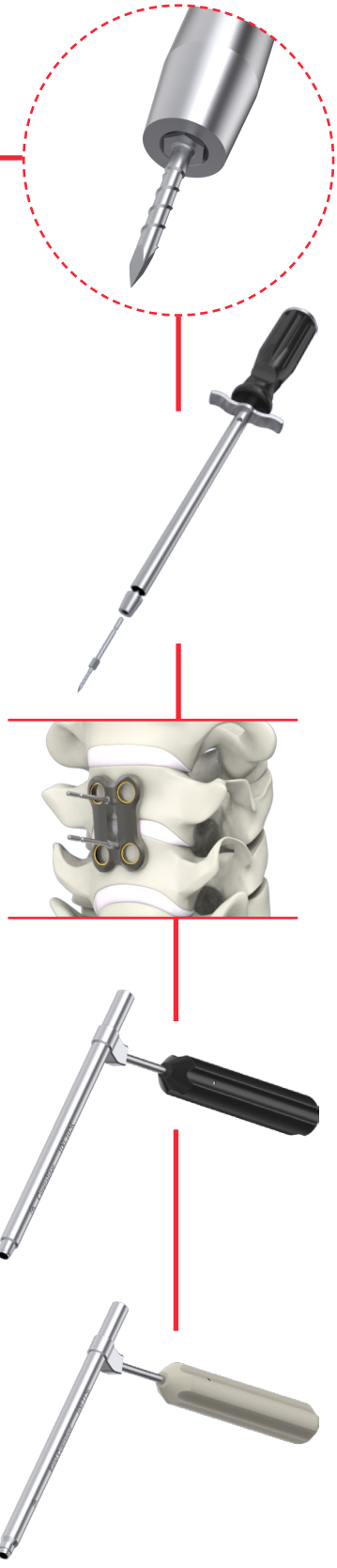
SIZE THE PLATE

Ensure the cephalad and caudad screw holes cover the intended vertebrae

Seat the plate flush to the anterior surface of the cervical vertebrae; remove osteophytes and flaws as necessary

To load Fixation Pin into Utility Driver, pull back the “T” handle and insert the Fixation Pin, and then release the handle to lock it in place

Insert the trocar tip of the Fixation Pin into the fixation holes of the plate (located both inferior and superior to the middle slot)



2. SCREW HOLE PREPARATION

CENTRALIZER

The Variable Angle Centralizer (black handle) is a variable angle guide used for screw hole preparation for Variable Angle Screws

The Rigid Centralizer (gray handle) is a fixed angle guide used for screw hole preparation of Fixed Angle Screws to ensure that the preparation trajectory is 10° (gold), 0°(green) cephalad/cau dad and 7° medial

Screw Holes can be prepared by using the Trocar Drill, Trocar Awl, or Twist Drill in conjunction with any of the centralizers

*Note: The Variable Angle Centralizer and the Rigid Centralizer will be referred to as Centralizer moving forward

*Note: The following technique is applicable for both the Self-Tapping and Self-Drilling Screws

2. SCREW HOLE PREPARATION (CONT.)

HOLE PREPARATION

Choose from the Awl, Twist Drill, or Cervical Tap for hole preparation

Use of a Centralizer is required for hole preparation

Assemble selected instrument to the Quick Connect Handle; pull the plunger of the handle and insert the shaft into the handle. At full insertion, release the plunger and rotate until it “clicks” into place

Engage the distal tip of the Centralizer with appropriate screw hole

Angle the Centralizer in the appropriate cephalad or caudal direction, maintaining medial-lateral position neutral to the plate

Insert the desired Hole Preparation instrument Handle Assembly through the Centralizer to desired depth

*Note: Awl includes a preset stop at 11mm, and the Tap has a preset stop at 16mm





2. SCREW HOLE PREPARATION (CONT.)

Assemble the Trocar Drill to the Utility Driver

Engage the distal portion of the drill in the locking ring of the plate. This will ensure that the prepared screw path is within the locking limits of the plate

Using steady, firm pressure, insert the drill into the bone to the desired depth by twisting the handle while applying pressure

*Note: Trocar Drill includes a preset stop at 11mm



3. FINAL SCREW LOCKING

INSERT SCREWS

Assemble the Dual Ended Screw Driver Shaft with the Quick Connect Handle, or use the standard Screw Driver

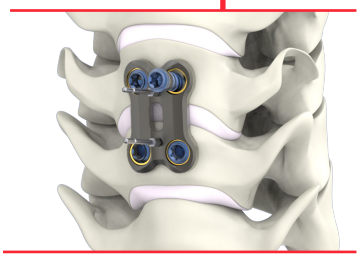


Load screw by pressing the T15 driver tip into the head of selected screw; lightly tap the top of the Screw Driver to fully engage the screw head

Insert screw; repeat steps for each screw

*Note: It is recommended to leave the screw head slightly proud and unlocked until all screws are placed

FINAL LOCKING AND IMPLANT FIXATION



Confirm plate placement and screw purchase

Achieve final locking by re-engaging the driver with the screw head rotating clockwise until the screw head is below the Locking Ring of the plate

Repeat final locking steps for each blocker

*Note: Confirmation of screw placement can be achieved via the following methods:

Suction may be applied to the locking ring to confirm it is locked into place

The screws may be observed via X-Ray to confirm they are flush with the plates

The audible click of the screw while inserting

Visually significant [approximately 3/4ths] amount of the ring can be seen

4. SCREW REMOVAL

OPTION 1:

REMOVE SCREWS WITH SCREW DRIVER

Insert the tip of the Ring Release Tool directly over the screw head

Insert the Cervical Screw Driver through the Ring Release Tool

*Note: Ensure the Ring Release Tool is seated flush against the plate's locking ring, and the top of the driver is firmly seated in the head of the screw

Apply downward pressure on the plate's locking ring with the Ring Release Tool and remove the screw by turning the driver counterclockwise

OPTION 2:

REMOVE SCREWS WITH SCREW EXTRACTOR

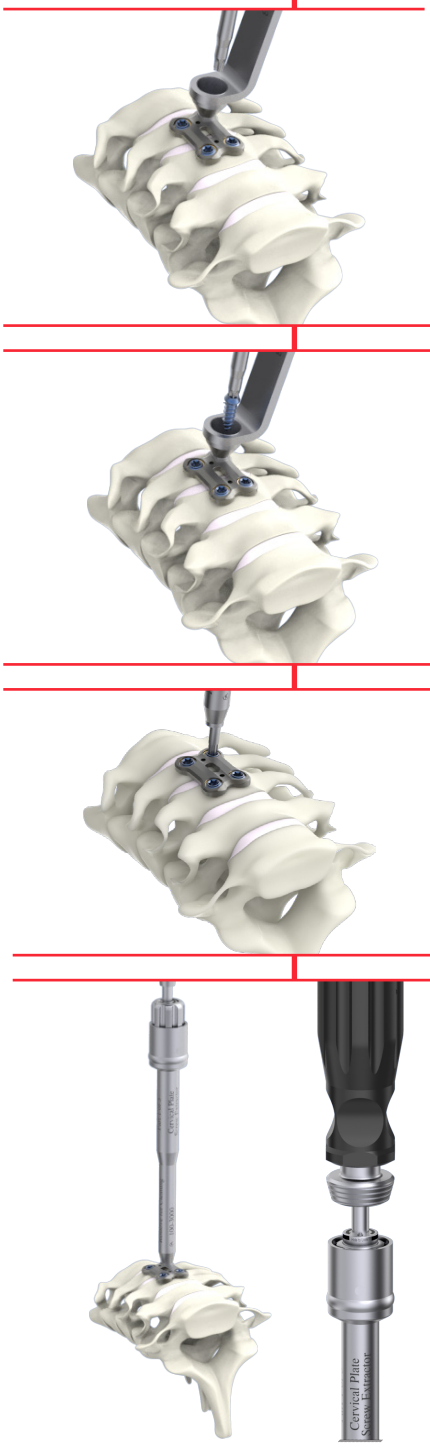
Engage the driver tip into screw

Restrain Ring Release Sleeve on the outer shaft, and rotate the knob counterclockwise to lock the instrument into the screw head

Press outer Ring Release Sleeve into the plate's ring pocket to restrain ring

Apply downward pressure on the Ring Release Sleeve while rotating the handle counterclockwise to back out the screw

*Note: If bone quality is poor and screw is free spinning, pull the screw out of pocket while maintaining pressure on the plate ring with Ring Release Sleeve



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