SeaSpine

ADMIRAL™ ACP

ANTERIOR CERVICAL PLATE
SURGICAL TECHNIQUE

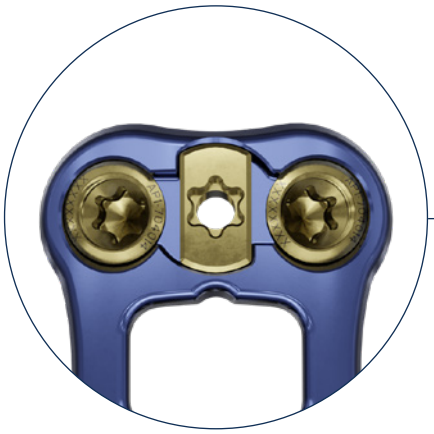
CONTENTS

ADMIRAL™ ACP

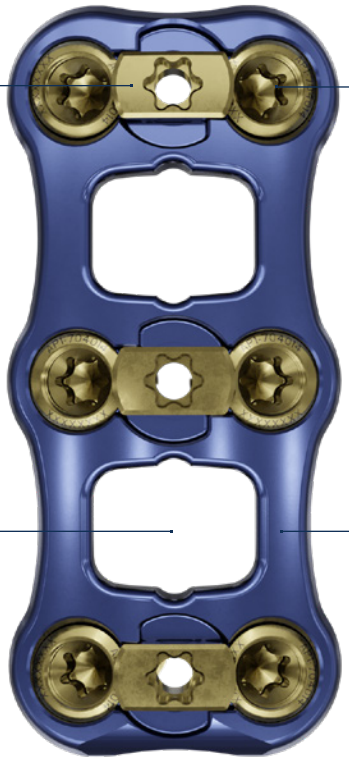
NOTE
Admiral ACP implants are designed and tested for use only with the Admiral ACP instruments. This surgical technique sets forth detailed, recommended procedures for this system only. As with any technical guide, each surgeon must consider the needs of each patient and make appropriate adjustments when required.

This manual is intended as a guide only. There are multiple techniques for the insertion of interbody implants, and as with any surgical procedure the surgeon should be trained and thoroughly familiar with the components of the implant system before proceeding.

Admiral™ ACP is a comprehensive and complete anterior cervical plating system designed to strike the optimal balance between strength, profile and construct rigidity. Its specialized instrumentation combined with unique plate features make Admiral ACP an efficient and reproducible ACDF solution.

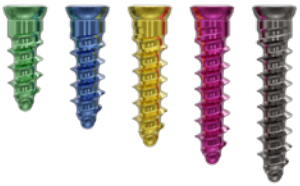


90° turn locks screws securely in place

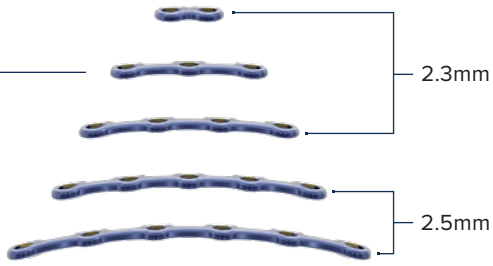


Large graft window

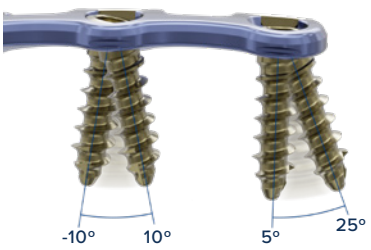
Comprehensive Implant Offerings



- Available in 4.0mm and 4.3mm diameter, 10–18mm lengths
- Fixed and variable, self-tapping and self-drilling options



No added profile from screw angulation or locking mechanism



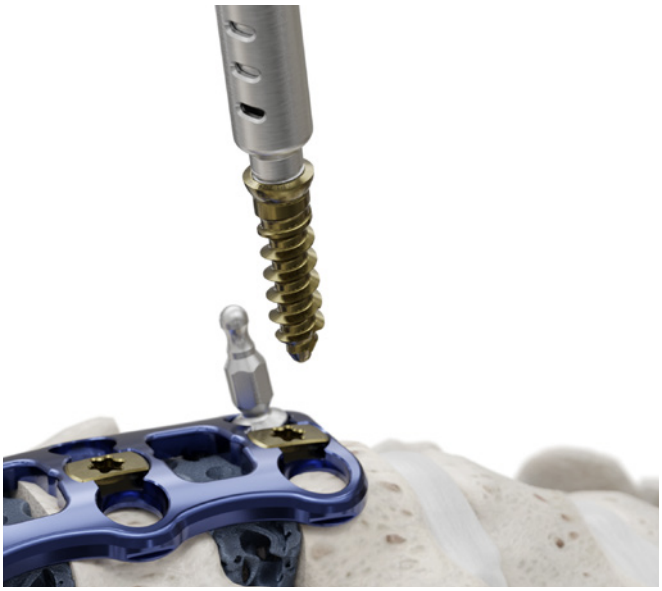
OPTIMIZED INSTRUMENTATION FOR IMPROVED WORKFLOW

Osteophyter

The Osteophyter's unique cutting surface matches the plate's curvature to aide in ventral bony preparation.

Trial Drill Guides

Trial Drill Guides allow for precise pilot hole placement to ensure shortest plate possible.



Threaded Driver

Novel Threaded Driver provides robust control during screw insertion.

Temporary Fixation Pins

Temporary Fixation Pins can be inserted through the screw hole or locking cover.

PREOPERATIVE CONSIDERATIONS

Preoperative Considerations

Sagittal and coronal X-rays, CT scans and MRI images may be used to help determine damaged intervertebral disc space, endplate angulation and potential instability. These images may also be useful to approximate the correct implant size.

STEP 1. SELECT PLATE

Once the anterior cervical spine has been prepped for fusion, select the desired Admiral™ plate to provide fixation (FIG. 1).

Plate calipers can be used to measure plate length. The reading on the caliper will display the plate length needed and will place the pilot holes 1.5mm superior/inferior to the respective endplate (FIG. 2).

NOTE
Plate length is measured from the center of the most superior hole to the center of the most inferior hole (FIG. 3).

FIG. 1

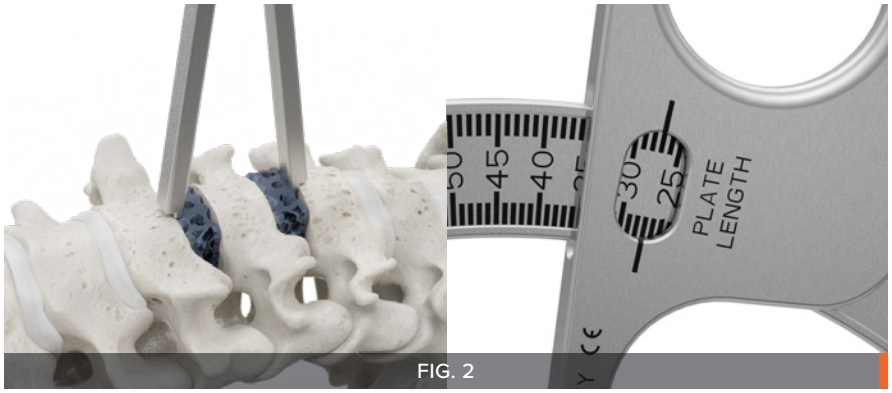


FIG. 2

FIG. 3

STEP 2. TRIAL PLATE POSITION

Use the Plate Holder to position the plate into the operative site for placement and sizing verification (FIG. 4).

Fluoroscopy can be used to confirm plate position.

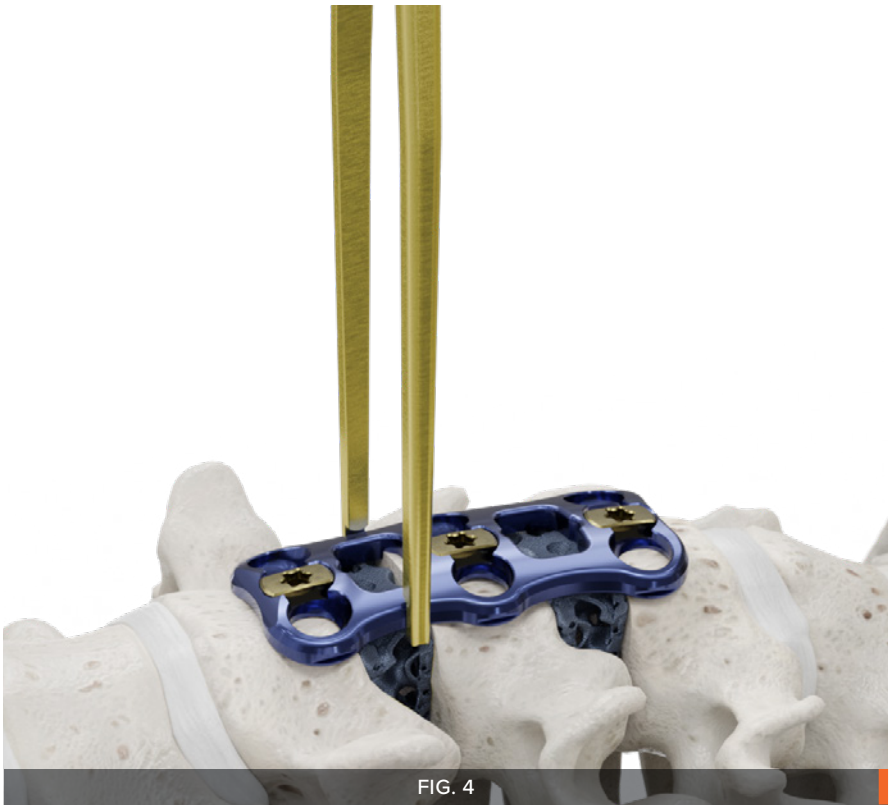


FIG. 4

STEP 3. PREPARE SITE (OPTIONAL)

Use the Osteophyter to prepare the vertebral body surface and remove osteophytes. The cutting portion matches the plate curvature (FIG. 5).

NOTE
The Osteophyter's cutting surface is 12mm wide.

FIG. 5

STEP 4. CONTOUR PLATE (OPTIONAL)

The Admiral™ plate is pre-contoured with lordosis. Should additional contouring be required, the plate can be further contoured by utilizing the Plate Bender (FIG. 6).

If additional lordosis is desired, insert an Admiral plate into the "Lordosis" side of the plate bender over the graft windows as shown.

Next, squeeze the handles of the Plate Bender to achieve the desired contour of the plate (FIG. 7). If less lordosis is required place the plate in the "Kyphosis" side of the bender and squeeze the handles to achieve the desired contour (FIG. 8).

NOTE
When contouring the plate, care should be taken to not scratch, notch or dent the surface of the plate or damage the locking mechanism as the implant strength may be compromised.

CAUTION
Do not bend plate over locking mechanism as this could damage its function.

FIG. 6

FIG. 7

FIG. 8

STEP 5. TEMPORARY FIXATION OF PLATE (OPTIONAL)

Ensure the plate is properly aligned coronally and with respect to the endplates (FIG. 9).

The Temporary Fixation Pins can be used to help hold the plate stationary for screw placement.

Load the Temporary Fixation Pin onto the Pin Inserter by pulling back the spring loaded sleve on the Pin Inserter (FIG. 10).

With the Temporary Fixation Pin fully engaged, advance it through the screw hole (or through the locking cover hole) into bone until it is fully seated aginst the plate or locking cover (FIG. 11).

NOTE
When used through the locking cover, the Temporary Fixation Pin goes 10mm into bone. When used through a screw hole, it goes 13mm into bone.

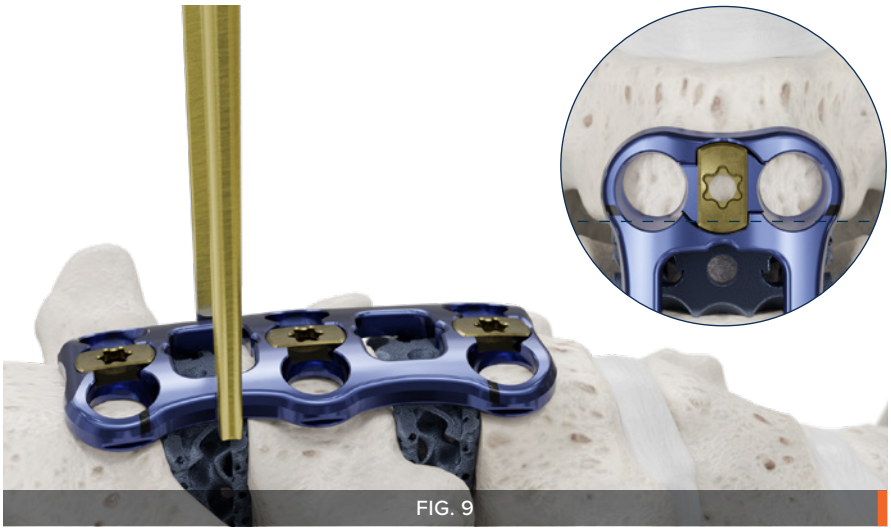


FIG. 9

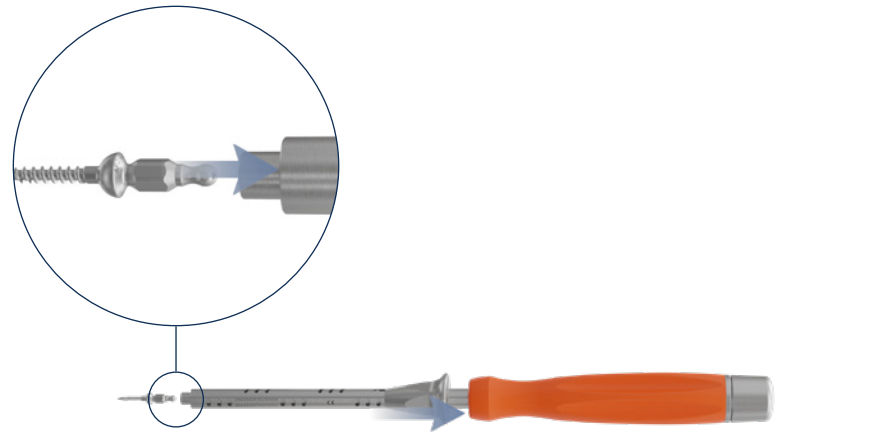


FIG. 10

FIG. 11

STEP 6. SCREW PREP

With the Admiral™ ACP system the surgeon has four options to prep and place the screws:

Option 1 – Self-guiding Awl

The surgeon can insert the Self-guiding Variable Awl, 10mm into the screw hole and lighty tap the ball handle to create a pilot hole (FIG. 12).

Remove the awl by pulling straight up on the proximal handle and/or using an axial rotational movment.

FIG. 12

STEP 6. SCREW PREP CONTINUED

Option 2 – Variable/Fixed Drill Guides

The surgeon can select the desired drill guide (fixed, variable, or double barrel variable) based on the type of screw and angle desired (fixed or variable angle).

Select the desired length drill bit and attach it to the AO quick-connect handle.

Insert the drill bit into the drill guide and place into the desired screw hole of plate. Rotate the handle in a clockwise direction to create the pilot hole for the screw (FIG. 13).

The depth stop on the drill will limit the drilling depth to the length designated on the drill used.

Once the pilot hole has been created, remove the Drill Guide by pulling up to disengage it from the plate.

FIG. 13

NOTE
The variable guides will allow for 5° to 25° of cranial/caudal angulation at the terminal levels and -10° to 10° at the intermediate levels with -4° to 16° medial/lateral angulation at all levels.

The Fixed guides will fix the screw trajectory at 15° at the terminal levels and 0° at the intermediate levels with 6° of medial angulation.

Option 3 – DTS Guides

If maximum plate control is desired, the surgeon can also choose a DTS double barrel guide to awl or drill, and then place the screws.

To utilize the DTS guides, select the 15° if using on the terminal levels, and 0° if using at the intermediate levels. Line up the DTS guide with the plate screw holes and use downward pressure to engage guide onto the lateral aspect of the plate. There will be an audible click as the prongs engage with the plate indentation features. Any of the awl or drill options can be used, followed by screw placement (FIG. 14).

To disengage, rock the DTS Guide cranial or caudal until it is no longer attached to the cervical plate.

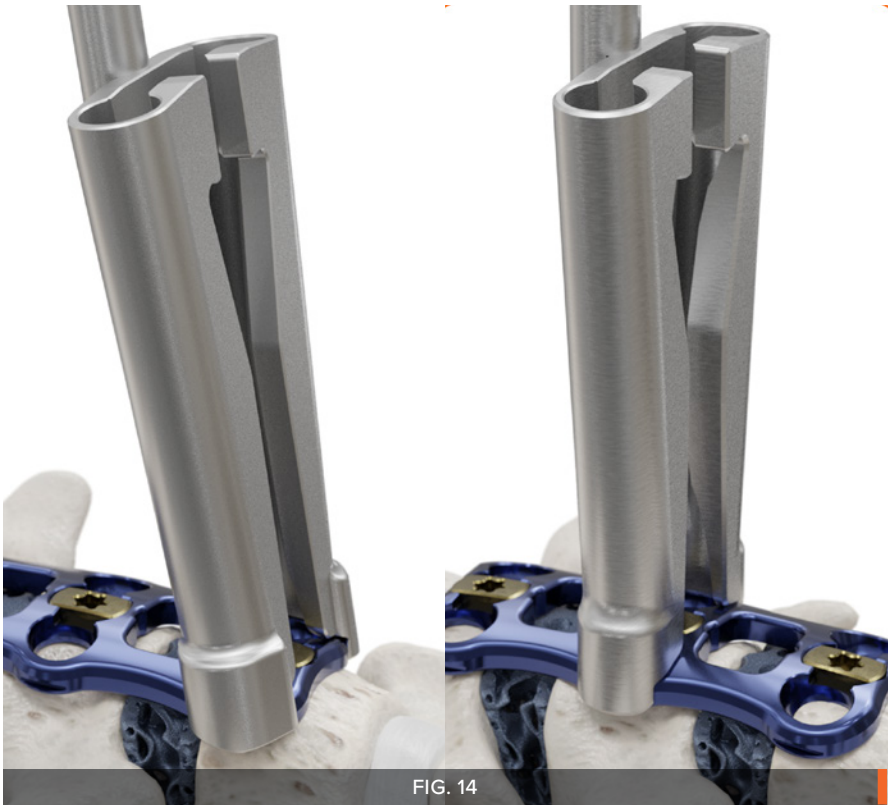


FIG. 14

NOTE
The screwdrivers and Self-guiding Awl both have laser markings on the shaft which will denote when the instrument is fully seated in the guide.

STEP 6. SCREW PREP CONTINUED

Option 4 – Trial Drill Guides

The Trial Drill Guides offer the surgeon the ability to simultaneously trial the desired height and footprint of their interbody while being able to drill pilot holes for the corresponding anterior cervical plate height.

Select the Trial Drill Guide Inserter and push into the desired Trial Drill Guide through the caddy until the inserter is firmly seated against it. The inserter is keyed to correspond with the drill guide angle; ensure that the distal feature is aligned properly. Once seated, remove and position over the corresponding Trial anterior height trial (e.g., a 7mm Trial Drill Guide will use the 7mm Trial and will be the same corresponding color). Rotate the proximal knob of the inserter clockwise until the entire assembly is snug and there is no movement of the Trial (FIG. 15).

Gently impact the Trial Drill Guide assembly into the disc space then use the desired drill length of choice to create the pilot holes. This will put the pilot hole 1.5mm away from the disc space into the anterior portion of the vertebral body (FIG. 16–17).

FIG. 15

FIG. 16

FIG. 17

Option 4 – Trial Drill Guides Continued

The Trial Drill Guide will allow for 25° of angulation on one side and 15° of angulation on the other (FIG. 18). If the surgeon desires 15/15 or 25/25 drill the desired angulation first, then remove and rotate assembly 180°, re-impact and drill. Take care to line up the guide with the initail pilot holes.

Once pilot holes have been completed, select the corresponding plate in relationship to the trial. For example, 7mm trial will take a 9mm plate and so on. Refer to the chart.

NOTE
Variable screws should be used when drilling through the 25° of angulation side of the trial drill guide.

TIP
Ensure no osteophytes are preventing the Trial Drill Guide Assembly from sitting flush on the vertebral bodies.

TIP
Ensure that drill has fully engaged and seated within the Trial Dril Guide and is sitting on the bone before starting pilot hole. When removing drill ensure drill is no longer spinning and remove from Trial Drill Guide.

FIG. 18

Trial Height	Trial/Guide Color	Plate Height
5mm	Light Blue	7mm
6mm	Vector Purple	8mm
7mm	Green	9mm
8mm	Dark Blue	10mm
9mm	Bronze	11mm
10mm	Magenta	12mm
11mm	Aqua	13mm
12mm	Medium Blue	14mm

STEP 7. SCREW INSERTION

Load the appropriate length screw onto the screwdriver. Advance the screw until the head of the screw is fully seated into the plate.

Option 1 – Screwdriver (Stab and Grab)

Press down on desired screw to engage the tapered retention of the screw to the driver. Once the screw is seated in the plate, wiggle laterally to disengage taper (FIG. 19).

Option 2 – Threaded Driver

Place driver over desired screw and push to fully seat seat in hex engagement pocket. Turn gold knob counterclockwise until the threaded sleeve seats in the screw head. When fully seated, turn the gold knob clockwise until fully snug with screw. Once screw is seated in the plate, turn gold knob counterclockwise to disengage (FIG. 20).

NOTE
Do not over-tighten when loading screw.

FIG. 19

FIG. 20

STEP 8. VERIFY ALIGNMENT & LOCKING MECHANISM

Ensure that the screws are fully seated and underneath the locking cover screw blocking wings.

Option 1 – Screwdriver (Stab and Grab) or Threaded Driver

Using the same driver as used with the screws, rotate the locking mechanism a ¼ turn clockwise to the locked position (FIG. 21).

Option 2 – Offset Locking Cover Driver

For levels where the incision or chin may be in the way, the Offset Locking Cover Driver can be used. Insert the driver into the locking mechanism as shown and rotate the locking mechanism a ¼ turn clockwise to the locked position (FIG. 22).

If locking cover won't turn the full 90° verify screws are properly seated against the plate and check for interference.

Surgeons should verify that the locking wings are over the screws and that the locking mechanism is in the horizontal position.

Check the final position of the plate and screws both visually and radiographically. Ensure the locking mechanism is in the horizontal position.

FIG. 21

FIG. 22

STEP 9. FINAL POSITION

Surgeons should check the final position of the plate and screws (FIG. 23).

Lateral fluoroscopy can be used to ensure all screws are seated properly below the locking mechanism and that the plate is sitting flush against the vertebral bodies.

FIG. 23

REVISION OPTION SCREW & PLATE REMOVAL

Ensure that the lock is turned to the unlocked position (vertical position) using either screwdriver prior to screw removal. A standard T10 driver may be used if the Admiral™ ACP set is unavailable (FIG. 24).

Insert the tip of the Threaded Driver into the head of the desired screw. Ensure the tip is fully seated within the screw head. Thread the outer sleeve of the threaded driver clockwise into the screws internal threads capturing the screw.

NOTE
Do not over-tighten.

Rotate the threaded driver counterclockwise to remove the screw. Continue turning the threaded driver counterclockwise until the screw is removed from the plate (FIG. 25).

To remove the plate, repeat step above for all screws. Once the screws have been removed, the plate is no longer attached to bone and can be removed.

FIG. 24

FIG. 25

ORDERING INFORMATION

TRAY CONFIGURATION

ADMIRALIMP

Instrument, Plate & Fixation
Top Level

ADMIRALIMP

Instrument, Plate & Fixation
Middle Level

ADMIRALIMP

Instrument, Plate & Fixation
Bottom Level

ADMIRALASCIMP

Admiral ASC Set

PRODUCTS SHOWN NOT TO SCALE

TRAY CONFIGURATION

1 Level Plate Caddy

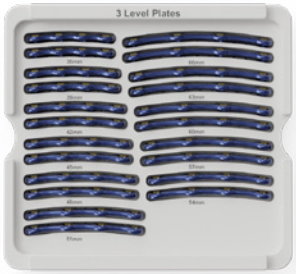
AP3-110001

2 Level Plate Caddy

AP3-110002

3 Level Plate Caddy

AP3-110003



4 Level Plate Caddy

AP3-110004

5 Level Plate Caddy

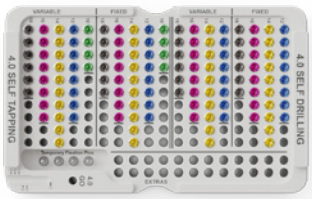
AP3-110005

PRODUCTS SHOWN NOT TO SCALE

TRAY CONFIGURATION

4.0mm Screws Caddy

AP3-110040



4.3mm Screws Caddy

AP3-110043

Trial Drill Guide Caddy

AP3-110010

PRODUCTS SHOWN NOT TO SCALE

INSTRUMENTATION ADMIRALIMP: ADMIRAL™ INSTRUMENTS

Admiral ACP Screwdriver
(Stab & Grab)

PN AP2-100001

Admiral ACP Screwdriver, Threaded

PN AP2-100002

Offset Locking Cover Driver

PN AP2-100003

Admiral ACP Drill Guide, Variable

PN AP2-100110

Admiral ACP Drill Guide, Fixed

PN AP2-100111

Lateral DTS Guide, 0°

PN AP2-100120

Admiral ACP
Double Barrel Drill Guide, Variable

PN AP2-100121

Lateral DTS Guide, 15°

PN AP2-100125

PRODUCTS SHOWN NOT TO SCALE

INSTRUMENTATION ADMIRALIMP: ADMIRAL™ INSTRUMENTS

AO Handle, Blue

PN AP2-900001

Self-guiding Awl, 10mm, Variable

PN AP2-100211

Admiral ACP Awl, 10mm

PN AP2-100210

Admiral ACP Drill

PN AP2-1003XX

Trial Drill Guide Inserter

PN AP2-100401

Modular Trial, 14 x 13 x Xmm, 7° Lordosis

PN AP2-1014XX

Trial Drill Guide, Xmm

PN AP2-1004XX

PRODUCTS SHOWN NOT TO SCALE

INSTRUMENTATION ADMIRALIMP: ADMIRAL™ INSTRUMENTS

Plate Holder

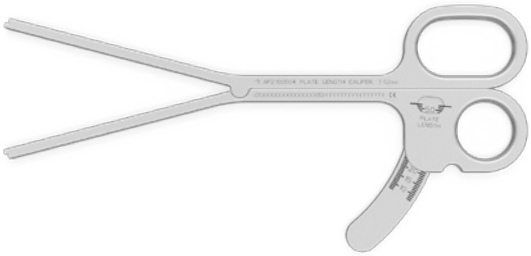
PN AP2-100501

Osteophyter

PN AP2-100503

Plate Length Caliper

PN AP2-100504



Pin Inserter

PN AP2-100505

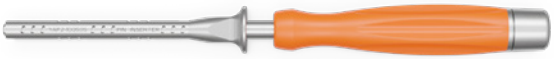


Plate Bender

PN AP2-000502

Temporary Fixation Pin

PN AP2-100506

PRODUCTS SHOWN NOT TO SCALE

IMPLANTS ADMIRAL™ ACP

ADMIRALIMP: Admiral 1 Level Plates

Part Number	Part Description
AP1-110007	Cervical Plate, 1 Level, 7mm
AP1-110008	Cervical Plate, 1 Level, 8mm
AP1-110009	Cervical Plate, 1 Level, 9mm
AP1-110010	Cervical Plate, 1 Level, 10mm
AP1-110011	Cervical Plate, 1 Level, 11mm
AP1-110012	Cervical Plate, 1 Level, 12mm
AP1-110013	Cervical Plate, 1 Level, 13mm
AP1-110014	Cervical Plate, 1 Level, 14mm
AP1-110016	Cervical Plate, 1 Level, 16mm
AP1-110018	Cervical Plate, 1 Level, 18mm
AP1-110020	Cervical Plate, 1 Level, 20mm
AP1-110022	Cervical Plate, 1 Level, 22mm
AP1-110024	Cervical Plate, 1 Level, 24mm

ADMIRALIMP: Admiral 2 Level Plates

Part Number	Part Description
AP1-210020	Cervical Plate, 2 Level, 20mm
AP1-210022	Cervical Plate, 2 Level, 22mm
AP1-210024	Cervical Plate, 2 Level, 24mm
AP1-210026	Cervical Plate, 2 Level, 26mm
AP1-210028	Cervical Plate, 2 Level, 28mm
AP1-210030	Cervical Plate, 2 Level, 30mm
AP1-210032	Cervical Plate, 2 Level, 32mm
AP1-210034	Cervical Plate, 2 Level, 34mm
AP1-210036	Cervical Plate, 2 Level, 36mm
AP1-210038	Cervical Plate, 2 Level, 38mm
AP1-210040	Cervical Plate, 2 Level, 40mm
AP1-210042	Cervical Plate, 2 Level, 42mm

ADMIRALIMP: Admiral 3 Level Plates

Part Number	Part Description
AP1-310036	Cervical Plate, 3 Level, 36mm
AP1-310039	Cervical Plate, 3 Level, 39mm
AP1-310042	Cervical Plate, 3 Level, 42mm
AP1-310045	Cervical Plate, 3 Level, 45mm
AP1-310048	Cervical Plate, 3 Level, 48mm
AP1-310051	Cervical Plate, 3 Level, 51mm
AP1-310054	Cervical Plate, 3 Level, 54mm
AP1-310057	Cervical Plate, 3 Level, 57mm
AP1-310060	Cervical Plate, 3 Level, 60mm
AP1-310063	Cervical Plate, 3 Level, 63mm
AP1-310066	Cervical Plate, 3 Level, 66mm

ADMIRALIMP: 4.0 and 4.3mm Variable Angle Screws

Part Number	Part Description
AP1-704010	4.0mm Variable Angle Screw, Self-tapping, 10mm
AP1-704012	4.0mm Variable Angle Screw, Self-tapping, 12mm
AP1-704014	4.0mm Variable Angle Screw, Self-tapping, 14mm
AP1-704016	4.0mm Variable Angle Screw, Self-tapping, 16mm
AP1-704018	4.0mm Variable Angle Screw, Self-tapping, 18mm
AP1-704312	4.3mm Variable Angle Screw, Self-tapping, 12mm
AP1-704314	4.3mm Variable Angle Screw, Self-tapping, 14mm
AP1-704316	4.3mm Variable Angle Screw, Self-tapping, 16mm
AP1-704318	4.3mm Variable Angle Screw, Self-tapping, 18mm
AP1-714012	4.0mm Variable Angle Screw, Self-drilling, 12mm
AP1-714014	4.0mm Variable Angle Screw, Self-drilling, 14mm
AP1-714016	4.0mm Variable Angle Screw, Self-drilling, 16mm
AP1-714018	4.0mm Variable Angle Screw, Self-drilling, 18mm

ADMIRALIMP: 4.0 and 4.3mm Fixed Angle Screws

Part Number	Part Description
AP1-724010	4.0mm Fixed Angle Screw, Self-tapping, 10mm
AP1-724012	4.0mm Fixed Angle Screw, Self-tapping, 12mm
AP1-724014	4.0mm Fixed Angle Screw, Self-tapping, 14mm
AP1-724016	4.0mm Fixed Angle Screw, Self-tapping, 16mm
AP1-724018	4.0mm Fixed Angle Screw, Self-tapping, 18mm
AP1-724312	4.3mm Fixed Angle Screw, Self-tapping, 12mm
AP1-724314	4.3mm Fixed Angle Screw, Self-tapping, 14mm
AP1-724316	4.3mm Fixed Angle Screw, Self-tapping, 16mm
AP1-724318	4.3mm Fixed Angle Screw, Self-tapping, 18mm
AP1-734012	4.0mm Fixed Angle Screw, Self-drilling, 12mm
AP1-734014	4.0mm Fixed Angle Screw, Self-drilling, 14mm
AP1-734016	4.0mm Fixed Angle Screw, Self-drilling, 16mm
AP1-734018	4.0mm Fixed Angle Screw, Self-drilling, 18mm

ADMIRAL4IMP: 4 Level Plates

Part Number	Part Description
AP1-450050	Cervical Plate, 4 Level, 50mm
AP1-450054	Cervical Plate, 4 Level, 54mm
AP1-450058	Cervical Plate, 4 Level, 58mm
AP1-450062	Cervical Plate, 4 Level, 62mm
AP1-450066	Cervical Plate, 4 Level, 66mm
AP1-450070	Cervical Plate, 4 Level, 70mm
AP1-450074	Cervical Plate, 4 Level, 74mm
AP1-450078	Cervical Plate, 4 Level, 78mm
AP1-450082	Cervical Plate, 4 Level, 82mm

ADMIRAL5IMP: 5 Level Plates

Part Number	Part Description
AP1-550750	Cervical Plate, 5 Level, 75mm
AP1-550800	Cervical Plate, 5 Level, 80mm
AP1-550850	Cervical Plate, 5 Level, 85mm
AP1-550900	Cervical Plate, 5 Level, 90mm
AP1-550950	Cervical Plate, 5 Level, 95mm
AP1-551000	Cervical Plate, 5 Level, 100mm

IMPLANTS ADMIRAL™ ACP

ADMIRALASCIMP: Admiral ASC Set

Part Number	Part Description
AP2-900001	AO Handle, Blue
AP2-100001	Admiral ACP Screwdriver (Stab and Grab)
AP2-100110	Admiral ACP Drill Guide, Variable
AP2-100312	Admiral ACP Drill, 12mm
AP1-110008	Cervical Plate, 1 Level, 8mm
AP1-110010	Cervical Plate, 1 Level, 10mm
AP1-110012	Cervical Plate, 1 Level, 12mm
AP1-110014	Cervical Plate, 1 Level, 14mm
AP1-110016	Cervical Plate, 1 Level, 16mm
AP1-210026	Cervical Plate, 2 Level, 26mm
AP1-210028	Cervical Plate, 2 Level, 28mm
AP1-210030	Cervical Plate, 2 Level, 30mm
AP1-210032	Cervical Plate, 2 Level, 32mm
AP1-210034	Cervical Plate, 2 Level, 34mm
AP1-210036	Cervical Plate, 2 Level, 36mm
AP1-210038	Cervical Plate, 2 Level, 38mm
AP1-714012	4.0mm Variable Angle Screw, Self-drilling, 12mm
AP1-714014	4.0mm Variable Angle Screw, Self-drilling, 14mm
AP1-714016	4.0mm Variable Angle Screw, Self-drilling, 16mm
AP1-704012	4.0mm Variable Angle Screw, Self-tapping, 12mm
AP1-704014	4.0mm Variable Angle Screw, Self-tapping, 14mm
AP1-704016	4.0mm Variable Angle Screw, Self-tapping, 16mm
AP1-704312	4.3mm Variable Angle Screw, Self-tapping, 12mm
AP1-704314	4.3mm Variable Angle Screw, Self-tapping, 14mm
AP1-704316	4.3mm Variable Angle Screw, Self-tapping, 16mm

INSTRUCTIONS FOR USE

INSTRUCTIONS FOR USE

Indications for Use

The Admiral™ ACP System is intended for anterior cervical fixation (C2–T1) for the following indications: degenerative disc disease (DDD) (defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, trauma (i.e., fracture or dislocation), spinal stenosis, deformities or curvatures (i.e., scoliosis, kyphosis, and/or lordosis), tumor, pseudarthrosis, and failed previous fusion.

Contraindications

Any medical or surgical condition which would preclude the potential benefit of spinal implant surgery is a contraindication. The following conditions may reduce the chance of a successful outcome and should be taken into consideration by the surgeon. This list is not exhaustive:

Absolute contraindications:

- Infection in or around the operative site
- Allergy or sensitivity to implant materials
- Any case not described in the indication

Relative contraindications:

- Local inflammation
- Morbid obesity
- Pregnancy
- Fever or leukocytosis
- Prior fusion at the level(s) to be treated
- Rapid joint disease, bone absorption, osteopenia, and/or osteoporosis
- Elevation of sedimentation rate unexplained by other diseases, elevation of white blood count(WBC), or a marked left shift in the WBC differential count
- Any case not requiring bone graft and fusion or where fracture healing is not required
- Patients having inadequate tissue coverage over the operative site or where there is inadequate bone stock, bone quality, or anatomical definition
- Bone immaturity
- The patient's activity level, mental condition, occupation and/or a patient unwilling to cooperate with the postoperative instructions
- Any case where implant utilization would interfere with anatomical structures or expected physiological performance
- Use of incompatible materials from other systems

INSTRUCTIONS FOR USE

Cleaning and Sterilization

The implants, components, and instrumentation in the Admiral™ ACP system are supplied “NON-STERILE” and must be decontaminated and sterilized.

CAUTION Federal law restricts this device to sale by or on the order of a physician or practitioner.

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SeaSpine Orthopedics Corporation does not practice medicine and does not recommend this or any other surgical technique for use on a specific patient. The surgeon who performs any procedure is responsible for determining and using the appropriate technique in each patient.

ADMIRAL™ ACP

ANTERIOR CERVICAL PLATE

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