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CERVICAL SPINE IMPLANTS AND INSTRUMENTATION

(**ATOMIC[®], SAPPHIRE[®], SAPPHIRE X[®], SAPPHIRE[®] X3 CRYSTAL[®], CRYSTAL[®] TI-BOND[®], VERTU[®], VERTU[®] TI-BOND[®] and VENTANA[™] C**)

This package insert covers multiple Spinal Elements cervical spine systems: the Atomic and Sapphire Anterior Cervical Plate Systems, the Crystal Cervical System, the Vertu Cervical System, and Manual Surgical Instruments that are used for the implantation of these systems. System-specific sections highlight important user information for only that system. The GENERAL INSTRUCTIONS FOR USE section provides important information for all systems included in this insert.

ANTERIOR CERVICAL PLATE SYSTEMS

ATOMIC[®] / SAPPHIRE[®] / SAPPHIRE X[®], SAPPHIRE[®] X3

GENERAL INFORMATION

The Atomic, Sapphire, Sapphire X, and Sapphire X3 Anterior Cervical Plate Systems consist of plates and screws that are used for temporary attachment to the anterior cervical spine during the development of a cervical spine fusion. Plates and screws are available in a variety of sizes to suit the individual pathology and anatomic condition of the patient. All implantable components are manufactured from titanium alloy (Ti-6Al-4V) conforming to ASTM F136 or ISO 5832-3. In the case of Sapphire some subcomponents are manufactured from nitinol conforming to ASTM F2063. All implants are intended for single patient use only and should not be reused (used in additional patients) under any circumstances. Reuse may result in serious injury or death. Components from these systems should not be used in conjunction with components from other systems.

INDICATIONS

The Atomic is intended for anterior cervical fixation (C2-C7) in skeletally mature patients as an adjunct to fusion for the following indications: degenerative disc disease (defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, trauma (including fracture or dislocation), spinal stenosis, deformities or curvatures (kyphosis, lordosis, or scoliosis), tumors, pseudoarthrosis, and failed previous fusion.

The Sapphire, Sapphire X, and Sapphire X3 Anterior Cervical Plate Systems are intended for anterior cervical fixation (C2-T1) in skeletally mature patients as an adjunct to fusion for the following indications: Degenerative Disc Disease (defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, trauma (including fracture or dislocation), spinal stenosis, deformities or curvatures (kyphosis, lordosis or scoliosis), tumor, pseudoarthrosis, failed previous fusion.

CLEANING AND MAINTENANCE

1. Spring-Loaded Awls should be disassembled before cleaning by compressing the button and removing the external shaft from the handle. Follow the cleaning instructions listed in the Manual Surgical Instruments section of this insert. Pay special attention to the lumens of the external shafts of disassembled instruments and all guide sleeves.
2. An instrument lubricant should be applied to the engagement collar of AO Quick Release Handles after cleaning.
3. An instrument lubricant should be applied to all hinged instruments after cleaning.

WARNINGS

THIS DEVICE IS NOT INTENDED FOR SCREW ATTACHMENT OR FIXATION TO THE POSTERIOR ELEMENTS (PEDICLES) OF THE CERVICAL, THORACIC, OR LUMBAR SPINE.

INTRAOPERATIVE MANAGEMENT

1. Forming or bending of the plates should be kept to a minimum. Bending of the plate near the screw holes should be avoided. Distortion of the screw holes may prevent proper locking of the screw. If bending of the plate is performed, only benders supplied with the system should be used for such bending. Notching of the plate may reduce its fatigue life. Care should be taken to avoid bending the plate multiple times in the same location.
2. If the surgeon experiences difficulty in inserting screws (hard bone, etc.), drilling and/or tapping prior to screw insertion is recommended.
3. A drill guide should be used to limit the angle of drilling and subsequent insertion of screws. Insertion angles greater than what drill guides allow may prevent adequate locking of the screw.

4. To help prevent screws from disassociating from the plate postoperatively, the screw locking mechanism of each screw should be engaged. The screw locking mechanism is activated by the clockwise rotation of the inset screw within the bone screw by the Breakaway Driver until an audible “click” is heard, indicating that the locking mechanism has been activated. To ensure that the locking mechanism has been activated, it is recommended to continue rotating the inset screw until a second audible “click” is heard.
5. Before the closing of the soft tissues, all screws should be secured to the plate by activating the locking mechanism as described.

POSTOPERATIVE MANAGEMENT

1. Anterior cervical plate implant components are for temporary internal fixation during the formation of a spinal fusion. Implants are not meant to support a load for an indefinite period. After the formation of a fusion, the device may be removed.

CRYSTAL® & CRYSTAL® TI-BOND®, and VENTANA C CERVICAL INTERBODY SYSTEMS

GENERAL INFORMATION

The Spinal Elements’ Crystal and Ventana C devices are a generally box-shaped devices with various holes located throughout their geometry to allow for packing of bone graft material. Superior and inferior surfaces of the device have teeth that help keep the device from migrating once placed in its desired location. Devices are available in a multitude of sizes.

Crystal devices are from either titanium alloy (Ti-6Al-4V) conforming to ASTM F 136 or ISO 5832-3, polyetheretherketone (PEEK-Optima®) conforming to ASTM F 2026, or PEEK with a coating of commercially pure titanium conforming to ASTM F 1580. Ventana C devices are additively manufactured from titanium alloy (Ti-6Al-4V ELI) conforming to ASTM F3001. All implants are intended for single patient use only and should not be reused (used in additional patients) under any circumstances. Reuse may result in serious injury or death. Components from these systems should not be used in conjunction with components from other systems.

INDICATIONS

Crystal, Crystal Ti-Bond, and Ventana C devices are intended for spinal fusion at one or two contiguous levels in skeletally mature patients with degenerative disc disease (DDD) of the cervical spine. DDD is defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. Implants are to be implanted via an open, anterior approach from the C2-C3 disc space to the C7-T1 disc space and packed with autograft or allogenic bone graft comprised of cancellous and/or corticocancellous bone graft.

The devices are intended to be used with supplemental fixation systems that have been cleared for use in the cervical spine (i.e., anterior plate systems).

Patients must have undergone a regimen of at least six (6) weeks non-operative treatment prior to being treated with these devices.

CLEANING AND MAINTENANCE

1. Inserters should be disassembled before cleaning by compressing the button and removing the external shaft from the handle.
2. Follow the cleaning instructions listed in the Manual Surgical Instruments section of this insert. Pay special attention to the lumens of the external shafts of disassembled instruments. An instrument lubricant should be applied to the ratchet teeth on the internal shaft of inserters after cleaning.
3. An instrument lubricant should be applied to all hinged instruments after cleaning.

INTRAOPERATIVE MANAGEMENT

1. Implants should be attached to the corresponding inserter such that they are fully seated on the inserter.
2. Implants should not be axially rotated with the inserter once they have been implanted. This may lead to damage of the implant and/or the inserter.

VERTU® & VERTU® TI-BOND® CERVICAL INTERBODY SYSTEMS

GENERAL INFORMATION

Spinal Elements’ Vertu Cervical Interbody System is composed of an implant body and fixation screws. The implant body is a generally box-shaped device with holes through its body for the placement of graft material. Additionally, it has teeth located on its superior and inferior external surfaces to help keep the device from migrating once placed in its desired location. Each screw hole is lined in its internal surface with a titanium ring insert. Screws pass through screw holes of the implant body and affix to bone to help prevent implant migration. When fully seated, the screw head rests on the titanium insert of the screw hole.

Device implant bodies are made from either titanium alloy (Ti-6Al-4V) conforming to ASTM F 136 or ISO 5832-3, polyetheretherketone (PEEK-Optima®) conforming to ASTM F 2026, or PEEK with a coating of commercially pure titanium conforming to ASTM F 1580. Screws are made from Ti-6Al-4V per ASTM F 136 or ISO 5832-3 and Nitinol conforming to ASTM F 2063. All implants are intended for single patient use only and should not be reused (used in additional patients) under any circumstances. Reuse may result in serious injury or death. Components from this system should not be used in conjunction with components from other systems.

INDICATIONS

Vertu & Vertu Ti-Bond devices are stand-alone interbody fusion devices intended for spinal fusion procedures at one level from the C2-C3 disc space to the C7-T1 disc space in skeletally mature patients with degenerative disc disease of the cervical spine. DDD is defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. Implants are to be implanted via an open, anterior approach and packed with autograft or allogenic bone graft comprised of cancellous and/or corticocancellous bone graft.

Patients must have undergone a regimen of at least six (6) weeks non-operative treatment prior to being treated with these devices.

The implant is designed to accommodate two screws. Two screws should be used to ensure adequate fixation of the implant.

CLEANING AND MAINTENANCE

1. Inserters should be disassembled before cleaning by compressing the button and removing the external shaft from the handle.
2. Follow the cleaning instructions listed in the Manual Surgical Instruments section of this insert. Pay special attention to the lumens of the external shafts of disassembled instruments.
3. An instrument lubricant should be applied to the ratchet teeth on the internal shaft of inserters after cleaning.
4. An instrument lubricant should be applied to all hinged instruments after cleaning.

INTRAOPERATIVE MANAGEMENT

1. Implants should be attached to the corresponding inserter such that they are fully seated on the inserter.
2. Implants should not be axially rotated with the inserter once they have been implanted. This may lead to damage of the implant and/or the inserter.

GENERAL INSTRUCTIONS FOR USE

CONTRAINDICATIONS

1. Patients with known or probable intolerance to the materials used in the manufacture of this device.
2. Patients with infection, inflammation, fever, tumors, elevated white blood count, obesity, pregnancy, mental illness and other medical conditions which would prohibit beneficial surgical outcome.
3. Patients resistant to following post-operative restrictions on movement especially in athletic and occupational activities.
4. Use with components from other systems.
5. Grossly distorted anatomy caused by congenital abnormalities.
6. Any patient that has had prior fusion surgery at the levels to be treated.
7. Any other medical or surgical condition which would preclude the potential benefit of spinal implant surgery.
8. Rapid joint disease, bone absorption, osteopenia. Osteoporosis is a relative contraindication since this condition may limit the degree of obtainable correction, stabilization, and/or the amount of mechanical fixation.
9. Any case where the implant components selected for use would be too large or too small to achieve a successful result.
10. Any patient having inadequate tissue coverage over the operative site or inadequate bone stock or quality.
11. Any patient in which implant utilization would interfere with anatomical structures or expected physiological performance.
12. Any case not described in the indications for use.
13. Reuse or multiple use.

WARNINGS

Devices are provided non-sterile and must be cleaned and sterilized before use. Validated sterilization cycle parameter protocols are noted in the STERILIZATION section of this insert. Implants that have come in direct contact with a patient or bio-contaminants should be disposed of.

Some instruments may be sharp, depending on their intended use. Care should be taken in handling such instruments to avoid injury to the user or patient.

A successful result is not always achieved in every surgical case. This fact is especially true in spinal surgery where many extenuating circumstances may compromise the results. System components are temporary implants used for the correction

and stabilization of the spine. Devices are intended to be used to augment the development of a spinal fusion by providing temporary stabilization. Devices are not intended to be the sole means of spinal support. Use of these products without a bone graft or in cases that develop into a non-union will not be successful. No spinal implant can withstand body loads without the support of bone. In this event, bending, loosening, disassembly and/or breakage of the device(s) will occur.

Implantation of devices should be performed only by experienced spinal surgeons with specific training in the use of this device. This is a technically demanding procedure presenting a risk of serious injury to the patient.

Preoperative and operating procedures including knowledge of surgical techniques, proper reduction, and proper selection and placement of the implant are important considerations in the successful utilization of this device by the surgeon. Further, the proper selection and compliance of the patient will greatly affect the results. The physician should consider the levels of implantation, patient weight, patient activity level, and all other patient conditions that may have an impact on the performance of the device. Patients who smoke have been shown to have an increased incidence of non-union. These patients should be advised of this fact and warned of this consequence. Obese, malnourished, and/or alcohol abuse patients are also poor candidates for spine fusion. Patients with poor muscle and bone quality and/or nerve paralysis are also poor candidates for spine fusion. The use of allograft material may not give as good a result as pure autograft.

Patients with previous spinal surgery at the level(s) to be treated may have different clinical outcomes compared to those without a previous surgery.

Physician Note: The physician is the learned intermediary between the company and the patient. The indications, contraindications, warnings, and precautions given in this document must be conveyed to the patient.

PREOPERATIVE MANAGEMENT

1. The surgeon should consider for surgery only those patients indicated for the use of this device.
2. The surgeon should not consider for surgery those patients contraindicated for the use of this device.
3. The surgeon should have a complete understanding of the device's indications, contraindications, and applications.
4. The surgeon should have a complete understanding of the function and limitations of each implant and instrument.
5. Device components should be received and accepted only in packages that have not been damaged or tampered with. Damaged implants and/or instruments should not be used. All implants and instruments should be inspected prior to use. Components must be carefully handled and stored in a manner that prevents scratches, damage, and corrosion.
6. The type of implant to be used for the case should be determined prior to beginning the surgery.
7. All devices should be processed and sterilized before use.

INTRAOPERATIVE MANAGEMENT

1. Caution should be taken in handling the implants. Damage to the implants may affect their performance.
2. Extreme caution should be used around the spinal cord and nerve roots. Damage to the nerves will cause loss of neurological functions.
3. Breakage, slippage, or misuse of instruments or implant components may cause injury to the patient or operative personnel.
4. Whenever possible or necessary, an imaging system should be utilized to facilitate surgery.
5. Caution should be taken not to over-tighten threaded components, including instruments, implants, and interfaces between implants and instruments.
6. Implants should not be reused (used in additional patients) under any circumstances.

POSTOPERATIVE MANAGEMENT

Postoperative management by the surgeon, including instruction and warning to and compliance by the patient, of the following is essential:

1. The patient should have a complete understanding of and compliance with the purpose and limitations of the implant devices.
2. Postoperative patients should be instructed to limit activity as determined by their surgeon.
3. Retrieved implants should be properly disposed of and are not to be reused under any circumstances.

MAGNETIC RESONANCE ENVIRONMENT

These systems have not been evaluated for safety and compatibility in the MR environment. They have not been tested for heating, migration, or image artifact in the MR environment. The safety of the device in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

POSSIBLE ADVERSE EVENTS

1. Early or late loosening of any or all of the components.
2. Disassembly, bending, and/or breakage of any or all of the components.
3. Loss of fixation (implant migration).
4. Foreign body (allergic) reaction to implants.

5. Post-operative change in spinal curvature, loss of correction, height, and/or reduction.
6. Infection.
7. Dural tears, persistent CSF leakage, meningitis.
8. Loss of neurological function including paralysis (partial or complete), radiculopathy, and/or the development or continuation of pain, numbness, spasms, or sensory loss.
9. Cauda equina syndrome, neurological deficits, paraplegia, reflex deficits, irritation, and/or muscle loss.
10. Loss of bladder control or other types of urological system compromise.
11. Scar formation possibly causing neurological compromise or compression around nerves and/or pain.
12. Fracture, micro-fracture, resorption, damage, or penetration of any spinal bone.
13. Soft tissue injury, vertebral endplate injury, vascular or visceral injury.
14. Herniated nucleus pulposus, disc disruption or degeneration at, above, or below the level of surgery.
15. Non-union (pseudo-arthritis), delayed union, mal-union.
16. Cessation of any potential growth of the operated portion of the spine.
17. Loss of or increase in spinal mobility or function.
18. Inability to perform the activities of daily living.
19. Death.

Additional surgery may be necessary to correct the occurrence of some of these possible adverse events.

SINGLE USE

Reuse of a single use device that has come in contact with blood, bone, tissue or other body fluids may lead to patient or user injury. Possible risks associated with reuse of a single use device include, but are not limited to, mechanical failure, serious injury, transmission of infectious agents and death.

Titanium-Coated Implants:

Titanium-coated implants may be processed by automated means prior to sterilization. Implants that have directly come in contact with the patient or bio-contaminants should be discarded. Separate implant caddies from the instrument tray prior to and during any processing.

CLEANING AND MAINTENANCE

GENERAL INFORMATION

Spinal Elements' instruments are manufactured from various stainless steels, aluminums, and polymers. All materials used have a history of use in such instruments. All devices are provided non-sterile and must be cleaned and sterilized prior to use.

CLEANING AND MAINTENANCE

Devices must be free of packaging material prior to cleaning. Cleaning, maintenance and mechanical inspection must be performed by hospital personnel trained in the general procedures involving contaminant removal. Only neutral pH cleaners or detergents labeled for use in cleaning medical devices should be used for cleaning components. Only lubricants that are intended for use on surgical instruments should be used to lubricate instruments. Follow directions from the manufacturer of lubricating and cleaning agents regarding handling, concentration, and use of such agents.

Cleaning instructions are provided in accordance with recognized standards and regulations and are intended to supplement a hospital's existing device cleaning and disinfecting protocol. Contaminated devices should be wiped clean of visible soil at the point of use prior to transfer to a central processing unit for cleaning and sterilization. Contaminated devices must be cleaned promptly after use per the instructions provided in this insert to minimize drying and ensure an effective cleaning.

Spring-Loaded Awls should be disassembled before cleaning by compressing the button and removing the external shaft from the handle. Follow the cleaning instructions listed in the Manual Surgical Instruments section of this insert. Pay special attention to the lumens of the external shafts of disassembled instruments and all guide sleeves.

An instrument lubricant should be applied to the engagement collar of AO Quick Release Handles after cleaning.

An instrument lubricant should be applied to all hinged instruments after cleaning.

AUTOMATED CLEANING INSTRUCTIONS

All devices must be processed manually prior to automated cleaning. Follow the instructions below for the manual and automated washing.

PRE-AUTOMATED WASHER: MANUAL CLEANING

1. Disassemble all instruments that come apart for cleaning.

2. Rinse under running tap water to remove gross contamination. Use a syringe, wire guide and/or pipe cleaner (as appropriate to the presented cleaning challenge) to push debris out of lumens/cannulations or other hard to reach areas. Pay special attention to lumens of the external shafts of disassembled instruments.
3. Prepare Enzol® (or equivalent neutral or mild pH enzymatic cleaner) according to manufacturer recommendations using warm tap water. Fully immerse devices in the enzymatic cleaner solution and allow to soak for a minimum of 1 minute. While soaking, actuate the instruments through a full range of motion (as appropriate) to allow complete penetration of the cleaning solution. Instruments that do not disassemble may require additional soaking.
4. After the soak, remove the instruments and wipe any soil or debris using a disposable towel. Then, place the instruments into a fresh batch of enzymatic cleaning solution using warm water. Scrub the entire surface of the devices with a soft bristle brush paying particular attention to hard-to-reach areas such as mated surfaces. A syringe, wire guide, and/or pipe cleaner should be used to aid in cleaning lumens/cannulations or other hard to reach areas. A minimum of 60ml of detergent should be used when flushing lumens and cannulations. Ensure no soil is visible in the rinse stream.
5. Remove from enzymatic cleaner solution and rinse with reverse osmosis or de-ionized (RO/DI) water for a minimum of 30 seconds to remove any residual cleaner solution. Thoroughly and aggressively flush lumens, holes and other hard to reach areas with a minimum of 60ml of water.
6. Prepare Prolystica® (or equivalent neutral pH detergent) according to manufacturer recommendations using warm tap water in an ultrasonic bath. Fully immerse into the sonication bath and sonicate for a minimum of 10 minutes.
7. Remove from the detergent solution and rinse by agitating and actuating in RO/DI water for a minimum of 30 seconds to remove any residual detergent and until no sign of soil is seen in the rinse stream. While rinsing, thoroughly and aggressively flush lumens, holes and other hard to reach areas with a minimum of 60ml of water.

AUTOMATED CLEANING

8. Transfer the instruments into the washer for processing. Position the instruments to allow for proper drainage. Process per the cycle below. These are minimum validated parameters:

Phase	Recirculation Time	Water Temp	Detergent Type (if applicable)
Pre-wash	2 minutes	Cold tap water	N/A
Enzyme Wash	2 minutes	Hot tap water	Enzol or equivalent per manufacturer's instructions
Wash	2 minutes	65.5°C	Prolystica or equivalent per manufacturer's instructions
PURW Rinse	2 minutes	43°C	N/A
Drying	15 minutes	90°C	N/A

9. If needed, dry devices using a clean lint-free cloth. Pressurized air (20psi) may be used to assist in drying.
10. Visually examine devices to ensure all visible soil has been removed.
11. Once instruments pass visual inspection, reassemble devices that come apart for cleaning.
12. After cleaning, an instrument lubricant (i.e., Steris Hinge-Free® or equivalent) should be applied to moving devices to maintain fluid movement between components. Pay special attention to the instruments called out in system specific sections.

MANUAL CLEANING INSTRUCTIONS

Follow the instructions listed below for manual cleaning prior to sterilization.

1. Disassemble all instruments that come apart for cleaning. See system specific cleaning instructions to determine which instruments should be disassembled.
2. Rinse under running tap water to remove gross contamination. Use a syringe, wire guide, and/or pipe cleaner (as appropriate to the presented cleaning challenge) to push debris out of lumens/cannulations or other hard to reach areas.
3. Prepare Enzol® (or equivalent neutral pH enzymatic cleaner) according to manufacturer recommendations using warm tap water. Fully immerse devices in the enzymatic cleaner solution and allow to soak for a minimum of 20 minutes. After the soak, scrub devices with a soft bristle brush paying particular attention to hard-to-reach areas such as mated surfaces. A syringe, wire guide, and/or pipe cleaner should be used to aid in cleaning lumens/cannulations or other hard to reach areas. A minimum of 60ml of detergent should be used when flushing lumens and cannulations.
4. Remove from enzymatic cleaner solution and rinse with reverse osmosis/de-ionized (RO/DI) water for a minimum of 3 minutes to remove any residual cleaner solution. Thoroughly and aggressively flush lumens, holes and other hard to reach areas with a minimum of 60ml of water.
5. Prepare Prolystica® (or equivalent neutral pH detergent) according to manufacturer recommendations using warm tap water in an ultrasonic bath. Fully immerse into the sonication bath and sonicate for a minimum of 10 minutes.

6. Remove from the detergent solution and rinse with RO/DI water for a minimum of 3 minutes to remove any residual detergent and until no sign of soil is seen in the rinse stream. Thoroughly and aggressively flush lumens, holes and other hard to reach areas with a minimum of 60ml of water.
7. Repeat Steps 5 and 6.
8. Dry devices using a clean lint-free cloth. Pressurized air (20psi) may be used to assist in drying.
9. Visually examine devices to ensure all visible soil has been removed.
10. Once instruments pass visual inspection, reassemble devices that come apart for cleaning.
11. After cleaning, an instrument lubricant (i.e., Steris Hinge-Free® or equivalent) should be applied to moving devices to maintain fluid movement between components. Pay special attention to the instruments called out in system specific sections.

INSPECTION

- Inspect each instrument, container, and tray to ensure that all visible contamination has been removed. If contamination is noted, repeat the cleaning/disinfection process.
- Check the action of moving parts (e.g. hinges, box-locks, connectors, sliding parts, etc.) to ensure smooth operation throughout the intended range of motion.
- Check instruments with long slender features (particularly rotating instruments) for distortion.
- Drill bits and taps should be inspected after processing with alkaline detergents.
- Inspect instruments for any other damage, wear and/or corrosion.

STERILIZATION

All devices provided non-sterile and must be sterilized before use. Non-sterile implants and instruments should be autoclave sterilized using one of the following validated cycle parameters.

	Method	Cycle Type	Sterilization Temperature	Exposure Time	Dry Time
Wrapped	Steam	Gravity Displacement	270°F (132°C)	15 minutes	45 minutes
	Steam	Pre-vacuum	270°F (132°C)	10 minutes	60 minutes
Rigid Container	Steam	Pre-vacuum	270°F (132°C)	4 minutes	30 minutes

*Note: Rigid containers must have a minimum of 2 filters and require a 30-minute cooldown period post sterilization.

Sterilization parameters were validated per *ANSI/AAMI/ISO 17665-1: 2006. Sterilization of Health Care Products – Moist Heat – Part 1 Requirements for the Development, Validation, and Routine Control of a Sterilization Process for Medical Devices* and *ANSI-AAM ST 79 - Comprehensive guide to steam sterilization and sterility assurance in health care facilities*. These parameters were validated to a sterility assurance level (SAL) of 10⁻⁶. The Gravity Displacement, 270°F (132°C), 15-minute and Pre-Vacuum, 270°F (132°C), 10-minute sterilization cycles are not considered by the Food and Drug Administration to be a standard sterilization cycle. It is the end user’s responsibility to use only sterilizers and accessories (such as sterilization wraps, sterilization pouches, chemical indicators, biological indicators, and sterilization cassettes) that have been cleared by the Food and Drug Administration for the selected sterilization cycle specifications (time and temperature).

UDI CONSTRUCTION

To compile a unique device identifier (UDI) for reusable, reprocessed devices, the device identifier (GTIN) may be ascertained by searching for the part number in the FDA GUDID at <https://accessgudid.nlm.nih.gov/>. The production identifier(s) (e.g., lot number, serial number) may be found directly marked on the device.

COMPLAINT HANDLING/REPORTING:

All product complaints relating to safety, efficacy or performance of the product should be reported immediately to Spinal Elements Customer Service Department by telephone (760-607-0121 or 877-774-6255), email (customerservice@spinalelements.com), or letter (3115 S. Melrose Dr. Ste. 200 Carlsbad, CA 92010).

All complaints should be accompanied by name, part number, and lot numbers. The person formulating the complaint should provide their name, address, and as many details as possible. To request a hard copy of the surgical technique guide or this IFU please contact Customer Service at (760) 607-0121.

INFORMATION

↑	Catalog Number	↔	Do Not Re-Use
→	Batch Code	⇒⇓	Sterilized using irradiation
M	Manufacturer	←	Use-by date
📖	Caution, Consult Accompanying Documents	⚠️	Device Not Sterile
MAT	Material	Rx Only	Prescription Only
QTY	Packaged Quantity	↓	Instruction for Use are provided electronically at ifu.spinalelements.com
↻	Date of Manufacture		

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For additional information regarding any of Spinal Elements' devices, please contact Spinal Elements, Inc. Customer Service at (760) 607-0121.

CAUTION: Federal Law (USA) restricts these devices to sale by or on the order of a physician.