

Intervertebral Disc Preparation Instruments INSTRUCTIONS FOR USE (AUSTRALIA)

GENERAL INFORMATION:

Intervertebral Disc Preparation Instruments are intended for use during surgical procedures for cutting, scraping, retracting, or similar procedures. Instruments are primarly manufactured from stainless steel per ASTM F899, titanium alloy (Ti-6Al-4V) per ASTM F136, and polymers/plastics. Instruments provided non-sterile are reusable and should be cleaned and sterilized per instructions provided below. Instruments provided sterile are single use and should not be reused.

INDICATIONS FOR USE:

Intervertebral Disc Preparation Instruments are intended to manipulate tissue or are intended for use with other devices in orthopedic and spine surgery.

CONTRAINDICATIONS:

The system is contraindicated for:

- 1. Infection in or around the the operative site
- 2. Allergy or sensitivity to instrument materials
- 3. Use of incompatible materials from other systems
- 4. Any situation not described in the indication

WARNINGS/CAUTIONS/PRECAUTIONS:

- 1. Non-sterile instruments of the system must be cleaned and sterilized prior to use. Refer to the CLEANING and STERILIZATION sections.
- 2. Single-use instruments are disposable devices, designed for single use and should not be re-used or re-processed. Reprocessing of single-use instruments may lead to instrument damage and possible improper function.
- 3. The instruments of Alphatec Spine product lines should not be used with any other company's products.
- 4. Device components should be received and accepted only in packages that have not been damaged. Damaged or worn instruments should not be used. Components must be carefully handled and stored in a manner that prevents scratches, damage, and corrosion.
- 5. Avoid removal of excess bony endplate to minimize risk of implant subsidence.

PREOPERATIVE MANAGEMENT:

1. Surgeons should have a complete understanding of the surgical technique, system indications, contraindications, warnings and precautions, safety information, as well as functions and limitations of the instruments.

INTRAOPERATIVE MANAGEMENT:

1. To prevent possible nerve damage and associated disorders, extreme caution should be taken to avoid the spinal cord and nerve roots at all times.

REPROCESSING OF REUSABLE INSTRUMENTS

General Information for all Instruments:

- Point-of-Use Processing: To facilitate cleaning, instruments should be cleaned initially
 directly after use in order to facilitate more effective subsequent cleaning steps. Place
 instruments in a tray and cover with a wet towel to prevent drying.
- The cleaning process is the first step in effectively reprocessing reusable instruments. Adequate sterilization depends on thoroughness of cleaning.

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- The cleaning and sterilization processes in this IFU have been validated and demonstrate that soil and contaminants have been removed leaving the devices effectively free of viable microorgansims.
- It is recommended that all new relevant clinical practice guidelines be followed as per the CDC guidance, "Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008."
- It is recommended to rinse the device components with water that meets specifications for AAMI TIR34 "Water for the reprocessing of medical devices, 2014" for example, DI/RO water.

Instrument Preparation and Disassembly:

- Cleaning, inspection, and sterilization must be performed by hospital personnel trained in the general procedures involving contaminant removal.
- Instruments must be cleaned prior to sterilization.
- Certain instruments may be disassembled prior to cleaning.

Cleaning of Instruments, Containers, and Trays:

- Instruments provided in a set must be removed from the set and cleaned prior to sterilization. Instrument trays, containers, and lids must be thoroughly cleaned separately until visually clean.
- Cleaning, maintenance, and mechanical inspection must be performed by hospital personnel trained in the general procedures involving contaminant removal.
- Visually inspect each instrument for deterioration such as corrosion and worn components; ensure that the laser markings are legible and verify that all actuating parts move freely. Visual inspection must be performed at each cleaning to determine if an instrument is acceptable for use. If an instrument is not acceptable for use, return to the manufacturer.
- Clean the instruments, trays and inserts using only recommended cleaning solutions. Use of caustic solutions (caustic soda) will damage the instruments.
- All solutions for cleaning must be prepared per the manufacturer's instructions.
- Use of water with high mineral content should be avoided.
- Complex instruments, such as those with, cannulas, hinges, retractable features, mated surfaces, and textured surface finishes, require special attention during cleaning. Brush tight tolerance areas with an appropriately sized brush and flush using a water jet or syringe where debris could become trapped.
- Ensure instruments are in the fully extended, open position throughout cleaning. Disconnect Quick Connect handles/knobs from the shafted instruments prior to cleaning.
- Ensure all moving parts of instruments are cleaned at both extents of travel. Handle all products with care. Mishandling may lead to damage and possible improper function.

Visually inspect the instrument after each cleaning step to ensure the instrument is clean. If not clean, repeat the step until clean.

Manual Cleaning Steps for Instruments (Required)

ļ	Step 1	Rinse devices in ambient temperature tap water to remove visible soil.
	Step 2	Prepare enzymatic solution, such as <i>Prolystica</i> ® 2X Concentrate Enzymatic Presoak & Cleaner or equivalent, per manufacturer's recommendations and submerge device in enzyme solution. Actuate the device while it is submerged and soak for a minimum of 10 minutes.

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Step 3	Actuate and scrub the device using an appropriately sized soft bristled brush, such as a <i>Spectrum Surgical code #M-16</i> or 45-542 (or equivalent), to brush any lumens for a minimum of 2 minutes. If needed, actuate at several locations to access all surfaces. Use of a syringe (minimum of 50 ml) or water jet is recommended for the hard-to-reach areas and repeat 3 times.
Step 4	Rinse devices in Deionized / Reverse Osmosis (DI/RO) water for a minimum of 1 minute.
Step 5	Prepare cleaning solution, such as <i>Prolystica</i> ® 2X Concentrate Alkaline Detergent, per manufacturer's recommendations and submerge and actuate devices in cleaning solution and sonicate for a minimum of 10 minutes.
Step 6	Thoroughly rinse devices with DI/RO water to remove all detergent residues.
Step 7	Dry devices with a clean, lint free cloth or filtered compressed air.

Automatic Washer Cleaning Steps for Instruments

Step 1	Complex instruments, such as those with cannulations, lumens, hinges, retractable features, mated surfaces, and textured surface finishes, require special attention during cleaning. Brush tight tolerance areas with an appropriately sized brush and flush using a water jet or syringe with ambient temperature tap water where debris could become trapped. Place them into the Washer/Disinfector and process through a standard surgical instrument cycle.
Step 2	Prewash with cold tap water for 2 minutes.
Step 3	Enzyme wash using cleaner such as <i>Prolystica</i> ® 2X Concentrate Enzymatic Presoak & Cleaner or equivalent, per manufacturer's recommendations, hot tap water (66°C/150°F minimum), for a minimum of 1 minute.
Step 4	Detergent wash using detergent such as <i>Prolystica</i> ® 2X Concentrate Alkaline Detergent or equivalent, per manufacturer's recommendations, hot tap water (66°C/150°F minimum), for a minimum 2 minutes.
Step 5	Rinse 2 times, hot tap water (66°C/150°F minimum), for a minimum 15 seconds.
Step 6	Purified water rinse, hot (66°C/150°F minimum), for a minimum 10 seconds.
Step 7	Hot air dry (115°C/239°F minimum), for a minimum of 10 minutes.

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.

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• Inspect instruments for any other damage, wear, and/or corrosion.

STERILIZATION AND RESTERILIZATION:

- All reusable instruments are provided non-sterile and must be steam sterilized prior to use in the provided trays using the validated cycle parameters in the table below.
- Alphatec perforated trays have been validated to achieve a sterility assurance level (SAL) of 10⁻⁶ using sterilization accessories (containers and filters). Reusable or paper filters should be used to achieve and maintain sterility after processing.
- Alphatec perforated container/tray configurations have also been validated to a sterility assurance level (SAL) of 10⁻⁶ using sterilization wrap. Perforated container/tray configurations must be double wrapped to allow steam to penetrate and make direct contract with all surfaces.
- Do not stack trays during sterilization.
- Instrument sets have been validated in standard configurations. No additional items should be added to the set for sterilization.

Minimum Minimum Cycle **Exposure Set Type Temperature** Drying Cool Down Time Type Time Time Implants/Instrument Pre-132°C 4 Minutes 30 Minutes 60 Minutes Mixed Set (270°F) vacuum Instrument Only Pre-132°C 4 Minutes 45 Minutes 75 Minutes Set vacuum (270°F)

Sterilization Parameters

Sterilization Notes:

These parameters are consistent with the appropriate version of ANSI/AAMI ST79
 "Comprehensive guide to steam sterilization and sterility assurance in health care
 facilities."

RETURNING INSTRUMENTS TO ALPHATEC SPINE:

All used products returning to Alphatec Spine must undergo all steps of cleaning, inspection, and terminal sterilization before being returned to Alphatec Spine. Documentation of decontamination should be included.

COMPLAINT HANDLING / REPORTING:

All product complaints relating to safety, efficacy or performance of the product should be reported immediately to Alphatec Spine by telephone, e-mail, or letter, per contact information below. 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. You may contact Customer Service directly at auscustomerservice@atecspine.com.

For Surgical Technique Guides or additional information regarding the products, please contact your local representative or Alphatec Spine, Inc. Customer Service directly at auscustomerservice@atecspine.com.

For a listing of Symbols and Explanations, see atecspine.com/eifu







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