



Encore® Medical, L.P. 9800 Metric Blvd. Austin, TX 78758-5445 USA

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A printable copy of the IFU for this device can be located at: https://www.djoglobal.com/surgical/ifus. A paper copy can be requested via phone at +1-800-520-8976.

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1. Product Handling

Devices not returned to the Surgical division of Enovis™ should be treated as biohazardous material and disposed of in accordance with local laws and regulations.

Recommendation for the Care and Handling for the Surgical division of Enovis™ Instruments and Instrument Cases

	Recommendation for the Care and Handling for the Surgical division of Enovis — instruments and instrument cases
REUSABLE INSTRUMENT DESCRIPTION	Enovis™ instrumentation consists of devices and their accessories used in surgical procedures. Implantation of Enovis™ products should only be performed with Enovis™ instrumentation or instrumentation distributed by Enovis™. Enovis™ instruments and instrument cases are generally composed of titanium, stainless steel, aluminum, and/or polymeric materials. The cases may be multi-layered with various inserts to hold surgical instrumentation in place during handling and storage. The inserts may consist of trays, holders, and silicone mats. The instrument cases will allow sterilization of the contents to occur in a steam autoclave utilizing the cleaning, sterilization, and drying cycle that has been validated and detailed below. Instrument cases do not provide a sterile barrier and must be used in conjunction with FDA cleared sterilization wrap to maintain sterility. Instruments are provided non-sterile and should be stored in their original packaging until cleaned and sterilized according to the recommended guidelines listed below.
WARNINGS	Automated cleaning may not be thorough enough. Carefully inspect each instrument to ensure that all visible blood residue and other contaminants have been removed.
CAUTION	Federal Law (USA) restricts this device to sale by or on the order of a physician.
REPROCESSING LIMITATIONS	Enovis™ instruments can be steam sterilized and repeat sterilization will not adversely affect them. If problems related to instrument sets are identified when using our instruments or instrument cases, please bring it to the attention of Enovis™ for investigation. The lifetime of an instrument is typically limited by normal wear and damage due to use.
DISCLAIMER	Enovis™ instrument cases are intended to protect instrumentation and facilitate the sterilization process by allowing steam penetration and drying. Enovis™ has verified through laboratory testing that our instrument cases are suitable for the sterilization cycles listed in the sterilization section of the IFU. It is the user's responsibility to verify that equipment is performing as intended, and conditions are achieved.

INSTRUCTIONS FOR USE

POINT OF USE PREPARATION	Keep instruments moist and do not allow blood and/or bodily fluids to dry on the instruments. The decontamination process should begin immediately after the completion of the surgical procedure. If cleaning must be delayed, place instruments in a covered container with pH Neutral enzymatic detergent to delay drying. Instruments should be cleaned within 30 minutes of use to minimize the potential for drying prior to cleaning. Wash all instruments whether they were used or were inadvertently contacted with blood. Disassemble instruments with removable parts; loosen instruments with movable		
	parts, as applicable.		
DECONTAMINATION	Decontamination is for the purpose of microbial inactivation. Saturate the surface completely with full strength intermediate disinfectant/cleaner* (e.g. CaviCide) and allow to remain in contact with devices for 5 minutes.		
A. MANUAL CLEANING: ALL INSTRUMENTS	1. Pre-Cleaning: Remove all visible soil by immersing the devices in room temperature neutral pH enzymatic cleaner* (e.g. MetriZyme) and disassemble/loosen instruments, that allow for disassembly/loosening and where doing so would improve the ability to clean. The majority of the surgical instruments and trial devices are simply constructed and will not require disassembly. However, some of the more complex instruments are made of several components and these should be disassembled into their individual parts prior to decontamination. Scrub with the appropriate soft bristle brush until visibly clean; actuate through the full range of motion.		
	2. Washing: Immerse devices in the ultrasonic washer/cleaner with room temperature neutral pH enzymatic cleaner* (e.g. MetriZyme) and sonicate for 10 minutes. Ultrasonic cleaners can be used at the temperatures recommended by the detergent and ultrasonic cleaner manufacturers; however, room temperature was qualified. Be aware that loading patterns, water temperature, and other external factors may change the effectiveness of the equipment.		
	3. Rinsing: Thoroughly rinse the devices with Critical water (per AAMI TIR34). For example, a minimum of 2 minutes three (3) times.		
	* Do not use high acidic (pH <4) or high alkaline (pH >10) products for disinfection or cleaning, since these can corrode metal, cause discoloration or stress fractures. Enovis™ has qualified the above cleaning method with the provided solution examples, for a 3 Spore Log Reduction (SLR). Other cleaning/disinfection methods may also be suitable, however individuals or hospitals not using the recommended method are advised to validate any alternate method using appropriate laboratory techniques.		

B. MANUAL CLEANING: INSTRUMENTS WITH CANNULAS, LUMENS, OR HOLES

- Pre-Cleaning: Follow the "Pre-Cleaning" and "Washing" steps in Section A. Manual Cleaning ALL INSTRUMENTS.
- Washing: After ultrasonic cleaning, in a fresh enzymatic cleaning bath use a tight-fitting, soft, non-metallic cleaning brush or pipe cleaner to scrub any cannula, lumen, or hole(s). Push in and out, using a twisting motion to remove debris. Use a syringe filled with enzymatic neutral pH cleaning solution to flush hard to reach internal areas.
- 3. Rinsing: Flush the instrument paying special attention to the cannulations, lumens, and/or holes with Critical water (per AAMI TIR34). For example, a minimum of 2 minutes three (3) times.

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C. MANUAL CLEANING: ARTICULATING INSTRUMENTS	2. Washing: After mechanisms thr the instrument u neutral PH clear syringe filled wit 3. Rinsing: Actual	rough full range of motion, such as under the neutral pH cleaning solut ning solution, fully open componer th enzymatic neutral pH cleaning s	nstrument in fresh neuti knobs, hinges, box lock tion while brushing the f ats and use a tight-fitting folution to flush hard to a hile rinsing with deionize	ral pH enzymatic cleaning solutions, or spring-loaded/retractable for flexible areas. For instruments with the soft, non-metallic cleaning brunders internal areas.	TRUMENTS. on to avoid aerosol generation. Actua eatures. For instruments with flexible s ith internal cavities, after actuating co sh or pipe cleaner to scrub the internal e, a minimum of 2 minutes three (3) tin	hafts, bend or flex mponents in the al cavities. Use a
AUTOMATED CLEANING	ALL INSTRUMENTS Manual Cleaning steps in Section A, and Section B for instruments with cannulas, lumens or holes and Section C for articulating instruments required before automated cleaning. The following minimum parameters required for automated cleaning of Enovis™ instruments. These parameters have been validated by Enovis™ under laboratory conditions.					
		Treatment / Phase	Minimum Time	Minimum Temperature	Cleaning Detergent Type	
		Pre-Wash	1 Minute	Cold Tap Water	N/A	
		Enzyme Wash	3 Minute	Warm Tap Water 38°C	Neutral pH Enzymatic Detergent	
		Wash	5 Minute	Warm Tap Water 38°C	Neutral pH Detergent	
		Rinse	2 Minute	Warm Tap Water 38°C	N/A	
		Final Rinse	1 Minute	Hot Deionized Water 82°C	N/A	
		Thermal Pure Water Rinse	5 Minute	Deionized Water 93°C	N/A	
DRYING		rior to inspection and sterilization pe a used prior to air drying if available		must be thoroughly dried to ren	nove residual moisture before they are	e stored. Filtered
TRANSPORT STERILIZATION	working parts (e.g. hing instrument case and wind surgical instruments are compromising their per 1. Visually inspect for incompletely 2. Only use an instruments are placement. 4. If instruments are replacement. 5. Visually inspect Compliance with the get Instruments are NOT S in FDA cleared sterilization with a Pr 270° F (132° C), 4-min	ges) to verify that each instrument rap with protective FDA cleared stand instrument cases are susceptible formance. To minimize damage, construment cases and instruments cleaned instruments; those that not trument for its intended purpose, sharp instruments use extreme cannot be damaged in such a way the instrument and check for damaged in such a way the instrument and check for damaged in such a way the instrument and check for damaged in such a way the instrument and check for damaged in such a way the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as the instrument and check for damaged in such as well as well as the instrument and check for damaged in such as well as we	functions throughout its erilization wrap according the to damage from proloconduct the following: If or damage when received repair should be resultion to avoid injury. Control that may compromise age and wear, moveable handling contaminated. Cleaned, inspected and or to use. Instruments production that have been relization that have been control.	intended range of motion. Place og to AAMI / AORN guidelines. In a AAMI /	at, burrs, bent, or fractured tips. Meche instruments into appropriate configurary or rough handling. Care must be taken aning. All steps of the cleaning process actitioner to develop safety procedures ent, contact your Enovis™ represents ement, locking mechanisms should facts is required. o shipment. Unless otherwise indicate ets should be fully loosened/disassemboratory conditions to achieve a SAL or	ration within n to avoid as should be repeated appropriate for all ative for a sten securely.
DRY TIME	The following are mining	num dry time requirements for the	indicated steam steriliz	ation cycles		
D.C. TIME	is is in the same of the	FA Name		Dry Time R	equirements (minutes)	\neg
				Pre-Vacuum Sterilizer	Gravity Displacement Sterilize	er
		EV VKV DOI	P S1 FEMORAL PREP	270° F (132°C), 4-minute	e 270° F (132°C), 15-minute	_
			KA POP S1 GEN INST	50	60	
			KA POP S2 GEN INST	50	60	
DRY TIME - RIGID CONTAINER,		FA Name			equirements (minutes)	
STEAM STERILIZATION				Pre-Vacuum Sterilizer	Gravity Displacement Sterilize 270° F (132°C), 15-minute	er
Aesculap Container Jk442				270° F (132°C), 4-minute	270° F (132°C), 13-minute	
DRY TIME - RIGID CONTAINER, STEAM STERILIZATION		FA Name		Dry Time Ro Pre-Vacuum Sterilizer 270° F (132°C), 4-minute	equirements (minutes) Gravity Displacement Sterilize 270° F (132°C), 15-minute	er
Aesculap Container Jk 444						
DRY TIME - RIGID CONTAINER, STEAM STERILIZATION Aesculap Container Jk 446		FA Name		Dry Time Ro Pre-Vacuum Sterilizer 270° F (132°C), 4-minute	equirements (minutes) Gravity Displacement Sterilize 270° F (132°C), 15-minute	er

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DRY TIME – HALF RIGID	FA Name	Dry Time Requi	Dry Time Requirements (minutes)	
CONTAINER, STEAM		Pre-Vacuum Sterilizer	Gravity Displacement Sterilizer	
STERILIZATION		270° F (132°C), 4-minute	270° F (132°C), 15-minute	
Aesculap Container Jk 342				
STORAGE/INSTRUMENT CARE	Instruments must be thoroughly dried to remove residual moisture before they are maintain sterility should be stored in a manner to avoid extremes in temperature a prevent damage to the barrier. The user must be aware that maintenance of steril increases over time and with handling. If necessary, hinged, rotating, or articulating designed for compatibility with steam sterilization that has been listed with the FD. be used.	nd moisture. Care must be taken in ity is event-related and that the prol ng instruments can be lubricated wit	handling wrapped instruments or in- pability of occurrence of a contamina th a neutral pH instrument lubricant s	strument cases to ting event specifically
CONTACT INFORMATION	Enovis™			
	ATTN: Customer Service			
	9800 Metric Boulevard			
	Austin TX, 78758 USA			
	+ 1-800-456-8696			

The instructions provided above have been validated by Enovis™ as being capable of preparing a medical device for re-use. It remains the responsibility of the user to ensure that the reprocessing is performed using appropriate equipment and materials, and that personnel in the reprocessing facility have been adequately trained to achieve the desired result. This normally requires validation and routine monitoring of the process.

An electronic version of this IFU can be located at:

https://www.dioglobal.com/surgical/ifus

Some Enovis™ products use SurgiBit® technology. The SurgiBit® technology is protected by the following patents: Drill Point protected under U.S. Design Patents D523313 & D523398. U.S. Utility Patents Pending.

2. Product Description

The devices covered by this IFU are the instruments used to implant Enovis™ implantable devices, as well as the instrument cases used to store said instruments for cleaning and transportation.

3 Indications

Reference the applicable implant IFU for Indications.

4. Intended Use

Reference the applicable implant IFU for device Intended Use.

5. Contraindications

Reference the applicable implant IFU for Contraindications.

6. Precautions and Warnings

Reference the applicable implant IFU for Precautions and Warnings.

7. Preoperative Planning and Postoperative Care

Reference the applicable implant IFU for Preoperative Planning and Postoperative Care.

8. Adverse Effects

Reference the applicable implant IFU for Adverse Effects.

Any serious incident that has occurred in relation to this device should be reported to the manufacturer and the relevant Competent Authority as defined in EU 2017/745.

9. Lifetime of Device

Enovis™ does not define the maximum number of uses appropriate for re-usable instruments. While the expected lifetime of surgical instruments may be subject to a multitude of factors such as patient characteristics, surgeon experience, amount of use, and surgical technique, evaluating the time between the release of an instrument from production and the return of that instrument to the manufacturer from the user can give an indication of its expected lifetime.

Based on this information, Powered Instruments have shown to last as short as 5 days in the field or as long as 9.5 years in the field, with an average lifetime of 2.3 years. Non-Powered Impaction or Extraction Instruments have shown to last as short as 3.5 months in the field or as long as 18 years in the field, with an average lifetime of 2.8 years. Non-Powered Guide Instruments have shown to last as short as 35 days in the field or as long as 9.1 years in the field, with an average lifetime of 2.9 years. Non-Powered, Non-Impaction/Extraction, & Non-Guide Instruments have shown to last as short as 56 days in the field or as long as 9.3 years in the field, with an average lifetime of 3.5 years.

As product data continues to be collected, these lifetime estimates may be re-evaluated and adjusted if required. Users should note that careful inspection of the instrument before use is the best method of determining the end of serviceable life.

10. Trademarks and Patents

Reference the applicable

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Symbol Glossary:

ISO 15223-1 5.4.2	Single use – do not reuse
ISO 15223-1 5.1.4	Expiration Date
ISO 15223-1 5.3.4	Keep Dry
LOT ISO 15223-1 5.1.5	Lot number/Batch Code
STERILE ISO 15223-1 5.2.1	Sterile
STERILE R ISO 15223-1 5.2.4	Sterility symbol: R: Sterile Using Irradiation
STERILE H ₂ O ₂	Sterile symbol: H ₂ O ₂ : Sterilized Using Hydrogen Peroxide Gas Plasma
ISO 15223-1 5.2.7	Non-sterile
ISO 15223-1 5.4.3	See "Instructions for Use"
ISO 15223-1 5.1.1	Manufacturer
QTY	Quantity of items in package
EC REP ISO 15223-1 5.1.2	Authorized Representative in European Community

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REF ISO 15223-1 5.1.6	Catalog Number
ISO 15223-1 5.2.6	Do not resterilize
ISO 15223-1 5.2.8	Do not use if package is damaged
MR ASTM F2503:2013	MR Safe
ASTM F2503:2013	MR Conditional
ASTM F2503:2013	MRI Unsafe
Rx 21 CFR 801.109	Federal Law (USA) restricts this device to sale by or on the order of a physician.
Article 13.3	Importer
MD ISO 15223-1 5.2.8	Medical Device
ISO 3166-1	Country Code of Manufacturer – US
ISO 7000-3704	Double sterile barrier system

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