Manufacturer: LfC Sp. z o. o Image: Complexity of the state of							
 This instruction applies to surgical implants of the DERO S company LfC Sp. z o. o The information complies with the record of the following materials: titanium and its surgical/implant alloys in accordance with the ASTM F3001. These implants can be coated with a layer of ox PEEK polymer (Polyetheretherketone) in accordance with the Material which the device is made of, is specified on the label an The guidelines of this manual should be used before the ster for ensuring that the reprocessing of products is carried out recommended equipment and materials. These activities are re ongoing process. The medical center must ensure adequate pro sterilizing devices. 			the requirements of EN ISO 17664. Implants the the requirements of ISO 5832 Part 3, AS of oxides of different color; in the requirements of ASTM F2026. the and on the device. The sterilization process. The executor is re do out by qualified and trained personnel are related to validation and routine monito e processing for cleaning, disinfecting, pack	are made STM F136, esponsible using the ring of the raging and			
Explanati	Explanations of symbols given on the label of devices manufactured by LfC Sp. z o.o. (symbols consistent with EN ISO 15223-1) WARNING WARNING (check the instruction manual, safety STERNUE						
	$\overline{\mathbb{R}}$	pictograms) DO NOT USE THE PRODUCT AGAIN		DO NOT USE IF THE PACKAGING IS DAMAGED			
		AVOID CONTACT WITH SUN LIGHT	Ĩ	READ THE INSTRUCTION MANUAL	_		
	Ť	PROTECT THE PRODUCT FROM WETTING	NON	NOT STERILE PRODUCT	-		
	STERILE	PRODUCT STERILIZED BY STEAM	STERILE R	PRODUCT STERILIZED BY RADIATION			
WARNINGS	 Implants of the Spinal System DERO are intended for single use only. It is not allowed to reuse previously used devices. Do not use damaged or previously surgically removed implants or their components; Implants that have been used and removed or tried on during surgical procedure must be immediately utilized according to the local requirements. They cannot be prepared for reuse; Re-use of single-use devices may affect the structural integrity of the implants, may result in loss of usability as an implant, as well as increase the risk of malfunction, which may lead to unwanted injury to the patient. In addition, the re-use of single-use devices creates the risk of infection, e.g. by transferring pathogens from patient to patient. This may result in injury and / or illness to the patient and/or user. 						
Limitations in repeated proceedings	- Re-s conc trays - It is - Repo prep tear - The achie	 Re-sterilization may only be carried out for products delivered in a non-sterile or steam-sterilized condition which have not had any contact with the patient (not fitted, not used, placed on sterilization trays or in packaging); It is absolutely not possible to re-sterilize radiation sterilized products supplied by LfC; Repeatedly following these instructions may affect the product and its life cycle. After each cycle of preparing the product for reuse, it must be evaluated. Usability is limited by the occurrence of wear and tear during reprocessing of the product (see section "Inspection"); The body conducting LfC implants processing is responsible for ensuring that desired results will be achieved. It is required to validate and routine control of the process. 					
		PRC	CEEDINGS				
Preparation at the place of use	cleanne			then repacked in room with supervised micro these activities according to the instruction.			

Preparation before cleaning	 due to the higher e cleaning; Whenever an automa User of medical devic disinfection. 	fficiency and repeata atic procedure is avai e (medical center) is re	ability of these pro- lable, do not use of esponsible for strict	ocesses comp nly manual clea observance of a	Ill parameters of cleaning and		
ction	 Two separate processes of cleaning and disinfection have to be conducted; Special attention should be paid to cleaning places that are difficult to access and difficult to clean, such as joints, cannulas, sleeves, racks, blades, etc. After inserting the implants into the cleaning solution, press all moving parts several times and/or turn the knobs and joints several times (if applicable); To clean difficult to reach places and internal cannulas use special cleaners of different sizes, adapted to the cleaned places and surfaces; Perform cleaning and disinfection using agents approved for medical devices in a way that prevents shape changes, damage and scratches on the surface; Wash in a multienzymatic medium. Disinfect inside a spectrum of action (bacteria, fungi, mycobacteria, viruses); Use fresh demineralized or distilled water; Use only newly prepared solution of cleaning agent, disinfectant; Follow the manufacturer indications of cleaning and disinfection agent in terms of dosage, concentration, temperature, compatibility of materials and time. 						
Manual cleaning and disinfection	Neodi Step	sher [®] MultiZym, Neod Time [min.]	lisher® Septo Activ Step	re, Neodisher® Time [min.]	infection with the use of Septo MED Step		
pue		[]	I CLEANING	······1	· · · · · · · · · · · · · · · · · · ·		
ning	Manual cleaning	5-10	5-10 ml/l	DEMI	Neodisher® MultiZym, pH ca. 8,4-8,6		
l clea			10g/l (1%)		Neodisher [®] Septo Active, pH ca. 7,6-7,9		
nua	Intermediate rinse	5	-	DEMI	-		
Mar	II DISINFECTION						
-	Chemical disinfection	15	30 ml/l (3%)	DEMI	Neodisher [®] Septo MED, pH ca. 8,5 Neodisher [®] Septo Active,		
	disinfection	15	20 g/l (2%)		pH ca. 7,6-7,9		
	Final rinse	5	-	DEMI	-		
	Drying	Com					
Automatic cleaning and thermal disinfection	 (conductivity (2) In case of use Cleaning and disinfermanner that prevent It is recommended to with EN ISO 15883-1, slightly change the hu Follow the indication of temperature, material Load the implants, sti 	at 25 °C)* ≤ 5µS/cm); of any other cleaning-o ection is performed w s changes in shape, o hat thermal disinfect that are used with all e of titanium alloy device of the manufacturer of o compatibility and time;	disinfectant agent, for ith the use of subse lamages and scrate ion should be perf caline cleaning age ces, this however do cleaning and disinfer and drying cycle. For	atances approve ches on the sur- formed with the nts of pH max. ² es not affect tec ction agent in te	ed for medical devices, in a		

	Step	Temperature T [°C]	Time t [min.]	Concentration [%]	Water quality	Chemical agent					
	Initial rinse	25	2	-	Water softening	Total hardness:<3°d (<0,5 mmol CaO/L)					
	Basic cleaning	55	10	7 ml/l	DEMI	Neodisher [®] MediClean Forte pH ca. 10,4-10,8					
	Intermediate rinse	>10 90	2 5	- 0,5 ml/l	DEMI DEMI	- Neodisher® MediKlar,					
	Thermal disinfection	**or until the parameter A ₀ =3000									
	Drying Note:	110	15	-	-	-					
Manual drying, automatic drying	devices will be A ₀ at least 300 2) DEMI water u. (conductivity (a 3) In case of use Provide dry, clean, comp visible.	sterilised after. Rol 0 for so called critic sed in process sho tt 25 °C)* ≤ 5µS/cm of any other cleanin ressed air. Dry dev	vert Koch Insti al equipment. buld comply v); ng-disinfectant vices on the o	vith the following sta t agent, follow it's ma ut- and inside with a	e thermal disin andards: EN 2 anufacturer gui iir, till no mark	fection with the valu 285 and ISO 1766 idelines. s of water drops an					
	Before packing and sterilizing, all implants should be inspected visually in good lighting, magnifying glasses can be used. Disposable gloves should be worn for inspection.										
	CLEANLINESS:										
	 All implant surfaces should be checked for visible dirt and residues from the cleaning and disinfection process Particular attention should be paid to: difficult to reach places where dirt can accumulate (e.g. hinges, joined surfaces, etc.); narrow holes, channels, depressions; places where dirt can be pressed in; places where markings are placed on implants. Implants must not have residues after washing and disinfection (e.g. damp patches, stains, discoloration deposits, flakes, etc.) 										
tion		GENERAL STATUS:									
spection			-		 Implants must not be incomplete, damaged (e.g., cracked, bent, deformed, blocked, etc.) and worn (e.g. discoloration of colored surfaces, scratches, etc.); The markings placed on the implant must be clearly visible and undamaged (the occurring damages are e.g. partially illegible, invisible markings). 						
Inspection	 discoloration of colored The markings placed of 	d surfaces, scratche on the implant mus	iged (e.g., cra es, etc.);	acked, bent, deform							
Inspection	 discoloration of colored The markings placed of 	d surfaces, scratche on the implant mus	iged (e.g., cra es, etc.);	acked, bent, deform sible and undamage							

Packaging	11607-1: "Packaging f – Packaging should be p air class "C" – ISO-Cla – Ensure that the packag	or terminally sterilized medical of performed in a room where the lass 7 in compliance with the norm ge is big enough for the instrum	micro bacterial environment is strictly	y controlled, minimal re on the sews;
Sterilization	 Devices can only be conducted and validate 1: Requirements for t devices"; It is recommended to s absolutely necessary t Sterilization control r 	e steam sterilized (over pres ed according to EN ISO 17665-1 the development, validation an sterilize in steam sterilization dev	I. Instruments must be dry before ste sured steam). Sterilization proces "Sterilization of health care products d routine control of a sterilization vice (autoclave) according to EN 130 cesses to ensure proper steam pene ically.	s must be planned, s Moist heat Part process for medical 60/ISO 17665-1. It is
Sterili			Minimal exposition time shortest time of maintenance of sterilization parameters 4 min. of sterilized products in sterilization of duct type, sterilization device and th	