

# **Reprocessing Instructions**

#### Item number: reusable surgical instruments



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#### Important details



Read the Operating Instructions carefully before use and save it in an easily accessible form for the end user or the technical staff.



Please go through the warning instructions marked with this icon. Inappropriate handling of the products can lead to serious injuries to the patient, the users or third parties.

Section	Title		Description
10	Intended Use and Areas of Application		The instruments may be handled by suitably trained qualified personnel exclusively for the intended purpose in the specified medical departments. The attending doctor or the user is responsible for the choice of the instrument for specific practices or surgical use and also has to account for the appropriate training and adequate expertise in using the equipments
	Precautionary measures and Warning Instructions	⚠ Note!	The reusable surgical equipments were meant to be used only for surgical purposes and should not be used for any other application. Inappropriate handling and maintenance as well as use for purposes other than the intended use can lead to premature wear and tear of the surgical instruments.
		Handling of brand-new instruments	New instruments , before its initial use, must be run through the complete conditioning cycle. Protective caps and protective nets must be removed completely in case of sharp-edged instruments
		Impairment of function	Surgical instruments corrode and their functioning is hampered when they come in contact with aggressive substances. Hence it is absolutely necessary to follow the preparation and sterilization instruction.
20		$\triangle$ Operations conditions	Proper care and correct maintenance of the afore-mentioned products is absolutely essential to ensure their proper and safe operations. Further, it is advisable to do a functional testing and visual inspection before each application. Hence we advise you to refer to the corresponding sections in this operations manual.
		Possibility of reprocesing	In view of the reprocessing of medical products that are used in the case of patients or suspects of Creutzfeldt-Jacob diesease (CJK) or its variant (vCJK), the requirements mentioned in the respective Appendix of the Guideline for Hospital Hygiene and Infection Prevention and the publications in the Bundesgesundheitsblatt (Health Office Gazette) are to be fully complied with. The medical products that are used for this patient group are to be safely disposed off through incineration (European Waste Catalog - EAK 180103). Dry heat, ethanol, formal dehyde and glutaraldehyde have a fixing but not a deactivating effect on the TSE- pathogens. Of all the existing sterilization procedures that are available, only steam sterilization (esp. at 134°C, 18 minutes) has shown limited effect.
		<b>⚠</b> Storage	There are no specific requirements with respect to the storage of the products before sterilization. However, we recommend that medical products be stored in a clean and dry environment.
30	Liability a	nd Warranty	The instruments may be handled by suitably trained qualified personnel exclusively for the intended purpose in the specified medical departments. The attending doctor or the user is responsible for the choice of the instrument for specific practices or surgical use and also



			has to account for the appropriate training and adequate expertise in using the equipments Similarly, the manufacturer does not undertake any liability for damages that can be attributed to repairs or maintenance carried out by unauthorized persons/offices.		
40	Obligation to report		All serious incidents occurring in the context of the product must be notified immediately to the manufacturer and the concerned authority in the member country in which the user and/or the patient resides.		
50	Sterility in Delivery Status		The medical products are delivered in a non-sterile sate and are to be reprocessed and sterilized by the user before the first use and before each subsequent use according to the following instruction.		
60	Limitations of Reprocessing, Disposal		Frequent reprocessing has very little effect on the surgical instruments. The product life is normally dependent on the wear and tear and the damage caused due to use of the instrument. On expiry of the product life, please ensure that you bring the surgical instruments into a proper system of disposal or reuse/recycling. The national stipulation and the waste disposal guidelines are to be followed!		
70	Reprocessing		See the following points		
	80		<ul> <li>The tap water that is to be used must meet the requirements of potable (drinking) water quality.</li> </ul>		
80			Before cleaning, loosen and dismantle the products to the maximum extent possible.      Loosened and dismantled products are to be assembled again.		
			before sterilization.  Gross contamination, residues, for e.g. of hemostasis, skin disinfection		
90	Place of Installation		and lube agents as well as caustic medicines should be removed, as far as possible, before putting the instruments away. Any pre-cleaning that is needed must be done immediately after use. Gross contamination must be rinsed or wiped off. Before dry disposal, the instruments should not be cleaned or stored with physiological saline.  Wherever possible, dry disposal (humidified, closed system) is to be preferred. Prevent drying of the residue on the instruments!  Long waiting periods till the time of reprocessing (for e.g. overnight or over the weekend) are to be prevented in both the cases of disposal types (< 6 hours).		
100	<u></u> Transport		After their use, the instruments are to be stored without any disinfectant or other additional fluids and transported to the ZSVA. The products must be immediately dried and stored after their usage. This means that the products are to be transported in closed moist containers from the place		
			<ul> <li>of use to the reprocessing iste so that there is no drying of the product.</li> <li>The product must be dismantled and loosened to the</li> </ul>		
	Pre-cleaning	Manual pre-cleaning	<ul> <li>maximum extent possible.</li> <li>Rinse under flowing tap water (potable quality) till they are visually clean.</li> </ul>		
			<ul> <li>If necessary the residual impurities are to be removed using a soft brush.</li> </ul>		
			<ul> <li>Lumens and other parts that are difficult to access (hollow spaces, undercuts, sack holes, edges, joints, etc) are to be rinsed for at least 60 seconds using a water pistol.</li> </ul>		
110			<ul> <li>Movable parts on the instruments are to be moved back and forth at least three times.</li> </ul>		
			<ul> <li>The lumens are to be handled using a brush whose diameter and length are a little more than the diameter and length of the lumen. Go through the lumens at least thrice with the brush.</li> </ul>		
			<ul> <li>If it is not possible to clean the lumen with a brush due to the small diameter of the lumens, then the lumens must be rinsed with a 50 ml one-time-use syringe. Potable tap water (&lt;40°C) is to be used for the purpose.</li> </ul>		



120		Ultra-sound cleaning	cleaning agent; acou frequency of approx.  Use a cleaning agent instructions of the m Place the instrument  Surfaces  Hollow ar  Lumens  Orifices are covered. The inst shadows should be for  Procedure to be follo  At the end under flow to access etc) are to pistol.  Moving p and the lumer brush.  If it is not small diar with a 50 is to be us  After the	stic irradiation time of .35 kHz.  that is suitable for ultranufacturer of the cless in such a way that all reas  truments should not be ormed.  owed after ultra-sound d, the products must be wing water. Lumens an (hollow spaces, under to be rinsed for at least arts are to be moved bumens are to be treated hare a little bigger thans. Go through the lum possible to clean the lumeter of the lumens, the molecular of the purpose.	e touched. No acoustic
130	Preparing for decontamination		The product must be sent in an open and/or loosened state for the next reprocessing steps.  Double joints must be brought to an open state with the help of a fixture. (Handle)springs must be exhibited.  Product s must be arranged in such a way that there should be no rinse shadows. The product must be reprocessed in suitable sieve baskets or drainage bowl (select the size according to the product). The product must be fixed in the cleaning basket at a minimum distance from other products. There should be no overlapping of products; this will prevent damage to the products during the cleaning process. The quantity and type of loading in the instrument trays selected for the cleaning is to be done in such a way that the cleaning result is not hampered. Instruments are to be arranged in such a way that water can flow out of the lumen. Products that come with luer lock or some other similar lock must be		
140	Mechanical Cleaning/ Disinfection	Automatic cleaning process	Step Pre-rinsing Pre-rinsing  Clean  Neutralize  Re-rinsing  The special instruction	RDG according to EN ISO Parameter Rinse temperature Exposure time Rinse temperature Exposure time Cleaning temperature Exposure time Clearning medium Concentration ratio Rinse temperature Exposure time Neutralization agent Concentration ratio Rinse temperature Exposure time Neutralization agent Concentration ratio Rinse temperature Exposure time Ons of the manufacture	Cold tap water (potable water quality) 60 sec Cold tap water (potable water quality) 180 sec 55°C min. 300 sec mildly alkaline cleaning agent 0.5 % Cold demineralized water 180 sec acidic neutralization agent 0.1 % Cold demineralized water 120 sec er of the automatic cleaning agent
			that is suitable for a	RDG.	



150	Automatic disinfection		Automatic thermal disinfection in cleaning and disinfection device taking into account the national requirements of A) value, for e.g. AO value 3000:  Disinfection for at least 300 secs with demineralized water 93°C		
160		Automatic drying	Automatic drying according to the automatic drying procedure of the cleaning and disinfection device for at least 30 minutes (at 60°C in the rinsing chamber).  If needed: manual drying with a fuzzle-free cloth if there is any wetness found on the product.		
170	Inspections/Tests		The instruments must be macroscopically clean after each cleaning - that is they must be free from any visible dirty.  Stained instruments (corrosion, decoloring) are to be sorted out immediately and treated separately.  Dirty or contaminated instruments must be again subjected to reprocessing.  If any mistakes or damages occur, then the instruments must be sorted out immediately.  The frictional surface must be examined for dirt and stains using a 10x magnification.  The following components must be checked extra carefully:  All movable parts (joints, etc.)  Locks  Cuts		
180	Maintaining the Instrument Pool		This reprocessing step is only applicable to the instruments with joints or locking (scissors, clamps, etc.) or those with smooth metallic surfaces (rib shears, punch/cutter, etc.)  These instruments must be treated with steam-sterilizable care products with paraffin oil base.  Let the instruments cool down to room temperature.  Reassemble the dismantled product.  "Care" means applying instrument oil or instrument milk (emulsion of white oil in water) to the instruments. The paraffin oil must correspond to the applicable pharmacopoeia and should be physiologically harmless according to the "Deutsches Arzneibuch" (German Pharmacopoeia, 10th edition (DAB10) and or "European Pharmacopoeia" (Ph. Eur) or the "United States Pharmacopoeia (USP)". The care agents prevent the friction of metal on metal and keep the instruments usable. Product with laser-lettering can get bubbles when treated with cleaning agents containing phosphoric acid or hydrofluoric acid. This can lead to the disruption or loss of the coding function. Basically, surgical instruments must be subject to a permanent maintenance and care before doing a functional test. Care agents must not lead to a 'sticking' of the joints during use due to an additive effect.		
190	Packaging		If the product has not been subject to the Care step and is still in a dismantled/ loosened state, then the product must first be reassembled. The instrument is packed and sealed in a packaging or sterilization tray that is suitable for the respective instrument according to DIN EN ISO 11607 and/or DIN EN 868.  The packaging must comply with the following requirements:  Suitable for steam sterilization (temperature resistance up to min. 138 °C (280 °F), adequate steam permeability)  Adequate protection of products and/or sterilization packaging to protect against mechanical damage  Regular maintenance according to the manufacturer's specifications (sterilization container)  A maximum weight of 10 kg for each packaging/content should not be exceeded.		



			(according to D national require suitable steriliza Sterilization is to	Sterilization of the product using the factional pre-vacuum process (according to DIN EN ISO 17665-1) taking into account the respective national requirements. The sterilization of the product must take place in suitable sterilization packaging.  Sterilization is to be carried out using a fractioned pre-vacuum procedure with the help of the following parameters:		
200			Country	Fractioned pre-vacuum procedure		
200			Germany	≥ 5 min. at 134°C (273° F)		
			USA	≥ 4 min. at 132°C (269,6°F), Drying in vacuum for at least 20 minutes		
			The operating instructions of the Autoclave manufacturer and the recommended guidelines for the maximum loading with items to be sterilized must be followed. The Autoclave must be installed, maintained, validated and calibrated according to the specifications.			
210	Additional information		The re-processor is responsible for ensuring the actual reprocessing is carried out using proper equipment, materials and staff in the reprocessing setup and the same leads to the desired results. To achieve this, it is generally necessary to validate and monitor the procedural routine and the equipment that is used.			
	Service, Repairs and Returns	Service and Repairs	Do not independently carry out any repairs or changes to the product. There are exclusive authorized persons of the manufacturer responsible and ear-marked for the same. Should you have any complaints or instructions about our products,, we would request you to please get in touch with us.			
220	Returns	A Returns	Defective or non-compliant products must be subject to the entire reprocessing procedure before returning them for repairs/ service. Decontamination proofs are to be attached.			
				Trocost against mediamout dumager		
			<ul> <li>Store in a dry and dust-free state.</li> <li>Store and transport in safe containers/ packaging.</li> </ul>			
230	Storage and transport		5.5.	lle with utmost care - do not throw or let the product		
			fall. Sterilization pac	Sterilization packaging (for e.g. according to DIN EN 868, ISO 11607) is to be used for subsequent transport and storage.		
			deformation, da deformed, poro must be sorted The following as	, the instrument is to be checked for breakage, crack, mage and proper functioning. Worn off, corroded, us instruments or those damaged in some other way but.  semblies must be checked extra carefully:		
			• Cuts			
				• Closures		
240	Instruction	s for inspection	Locks     mountle parts such as is into ata			
			movable parts such as joints etc. The stainless steels used for the manufacturing of instruments (non-rusting, stainless steel) form certain specific passive layers as protective layers due to their alloy composition. These steels are only partially resistant to attack from chloride ions and aggressive media and liquids! In addition to the efforts that have been undertaken by the manufacturer for the choice of the correct materials and their processing, it is necessary that surgical instruments are subject to proper care and maintenance by the user and are also subject to correct reprocessing.			
				the cleaning agent and disinfectant, pay attention to		
	<b>0</b> Material resistance		• orga	organic and mineral acids and oxidizing acids (minimum)		
250			Permissible aluminium Instruction pH 11 are are propos	e pH value of 5.5)  strong lyes (neutral/enzymatic substances (max. e pH value of 8.5) are necessary for products made of or other alkali-sensitive materials; see chapter "Special is") or alkaline cleaning agents (max. permissible value absolutely essential and recommended for products that sed to be used in prion critical areas for e.g. according to 7 of "KRINKO RKI BfArM recommedatio for reprocessing.		



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<ul> <li>organic solvents (for e.g. alcohols, ether, ketones, petrols)</li> <li>Oxidization agents (for e.g. hydrogen peroxide)</li> </ul>
<ul><li>Halogens (chlorine, iodine, bromine)</li><li>Aromatic/ halogenized hydrocarbons</li></ul>