FEHLING INSTRUMENTS

G 060

06-10/2015

INSTRUCTIONS FOR USE

- IFU -

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All FEHLING	Bone Punches	Accessories:		
		 TXX-0X Screw driver for hex socket screw TXW-9X Screw driver, sterilizable, for hex socket screw TXW-6X Mounting device (TRADITION X punches) TXW-7X Mounting device (CONCEPT X punches) TXW-8X Mounting device (GENTLE punches) TXX-2X Screws for CONCEPT X punches 		
Warnings:		ifiable by the brownish black surface) and titanium instru- cess: Using the two processes will result in the destruction		

Warnings: Do not clean CERAMO® instruments (identifiable by the brownish black surface) and titanium instruments using the Orthovario and Oxivario process: Using the two processes will result in the destruction of titanium instruments or the titanic CERAMO® coating after some time due to oxidative processes (titanium is dissolved out by H₂O₂).

Dismountable punches can be identified by the arrow mark next to the hex socket screw at the joint of the instrument. Punches without this mark are not dismountable! For assembly and disassembly please refer to the appropriate assembly instructions.

Prior to processing a risk assessment on the instrument must be performed.

Bone punches may only be used, processed and disposed of by competent medical personal!

Intended use:

Bone punches are used to excise bone, cartilage and tissue at the skull and the spinal column. Laminectomy punches are used in the resection of vertebral arches, spinous processes and the exposure or the relief of the spinal marrow, for example in case of a disk prolapse.

Before use:

FEHLING INSTRUMENTS bone punches are delivered non-sterile and have to be cleaned and sterilized by the user before their first and any further use (see reprocessing).

Perform a safety check before each use of the punch. Check for cracks, breaks or mechanical malfunctions (see Maintenance, control and functional testing).

	During use:			
	Handle punches with care on storage, transport and cleaning! Avoid impacts and selective loads!			
	Avoid overstressing! The rule of thumb is: The volume of the cuttings must be smaller than the volume of the two cavities in punch foot and punch slider.			
\triangle	Use all flat-foot punches and all punches with a useful width of 3 mm and less for soft tissue and small bone quantities only. Do not cut cortical bones!			

Reprocessing:

Restriction for reprocessing:

Frequent reprocessing has only minor effects on these instruments.

Usually the end of the product service life is determined by wear and damage due to utilization.

Place of application:	Remove surface contamination with a disposable towel/paper towel – pre-cleaning.
Storage:	Store instruments in dry rooms to avoid condensation. It is recommended to start reprocessing the instruments directly after use, as dried resi- dues located in areas with limited access are quite difficult to remove.



G 060

INSTRUCTIONS FOR USE - IFU -



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Preparation of cleaning: Mechanical processing should be preferred over manual processing.	Make sure that traces of blood, tissue and medication are removed from the instruments directly after termination of the surgery and that they are immediately forwarded to mechanical cleaning. Clean instruments under cold running water with a suitable soft brush until all visible contamination is removed. Do not place in NaCl solution (risk of hole or stress crack corrosion). Only use an approved solution of a combined cleaning and disinfecting agent without protein fixing effect (observe the recommendation of the chemicals producer when mixing the solution). Avoid overfilling of instrument sets and washing trays – use appropriate instrument carriers only. Be particularly careful that the mouths/points do not get stuck in the mesh when placing and removing the instruments into/from the set baskets. Disassemble dismountable instruments (identifiable by the arrow mark next to the hex socket screw at the joint of the instrument) according to the appropriate assembly instructions.
	CERAMO CONCEPT TURNUS punches
Cleaning/Disinfection acc. to EN ISO 15883-1:2009	It is assumed that the products used for cleaning and disinfecting are available on the market and approved for the respective application. And that the recommended concentrations, time of exposure and temperatures are observed.
Cleaning: mechanically acc. to EN ISO 15883-1:2009	 Validated procedure: Equipment: Washer/disinfector G 7836 CD (Miele) Process: 2-component process alkaline/enzymatic Detergent: deconex® TWIN PH10 and TWINZYME (Borer Chemie, Switzerland) Preparation: Joint instruments are to be placed in the device such that the hinges are open and the water can flow off cavities and blind holes. Make sure that all cavities are completely flushed on the inside as well. Make sure that no flushing shadows arise. Parameters: 3 min pre-cleaning with tap water Drain 10 min cleaning with tap water and 0.3 % TWIN PH10 at 35 °C (95°F), and 0.2 % TWINZYME at 40 °C (104°F) Drain 2 min rinsing with deionized water > 30 °C (86°F) Drain 5 min thermal disinfection at 93 °C (200°F) After mechanical cleaning check cavities, blind holes, etc. in particular for visible dirt. Repeat cycle or clean manually, if required.
Cleaning/Disinfection: Manually Manual cleaning should be avoided as it cannot be	 <u>Equipment:</u> Detergent (active and non protein-fixing cleaner, with or without antimicrobial effect and/or enzymes), compressed-air cleaning gun, soft cloths/sponges, running water. 1. Thoroughly rinse dirt from the surface of the instrument.

FEHLING INSTRUMENTS

G 060



06-10/2015

validated.	 Apply detergent solution on all surfaces using a soft cloth or sponge. Make sure that joint instruments are cleaned in open as well as in closed position. Thoroughly rinse all cavities and blind holes with a sufficient amount of detergent solution (min. 200 ml) using a syringe. Take special care that enough solution flows to the distal end. Hold the instrument under running water. The running water must flow through the cavities, and blind holes must be filled and emptied several times. Use deionized water for the final rinsing. For manual cleaning the detergent solution should not be warmer than room temperature. Disinfection: Disinfecting solutions may be used according to the instructions on the label (see indications of the chemicals producer). The automatic cleaning may be followed by a thermal disinfection (min. 5 minutes at 93 °C - 200°F). (Thermal disinfector, see indications of the device manufacturer.) Demineralized water must be used for the final rinsing. Make sure that no residues remain on the products. 	
Drying:	If drying is achieved as part of the cleaning/disinfection cycle, 120 °C (248°F) should not be exceeded.	
Maintenance:	Assemble the instruments according to the assembly instructions. Apply a small amount of high-grade, water-soluble instrument spray on the hinges.	
Control and function test:	 Check instruments for easy operation (avoid too much play). Check locking mechanisms. Using a magnifying lamp visually inspect for damage and wear. Edges should not shownicks and should be even. Pay special attention to the critical points on movable parts and in the working area. Check if the two opposing cutting edges of slider and foot close completely over the entire length of the cutting edge. If not the instrument cannot or only in a limited way achieve its function. The punch must be taken to be repaired. Sort out defective, blunt or damaged instruments and send them to the manufacturer for repair. Clean and disinfect instruments before sending them to be repaired. A confirmation form for this procedure can be obtained from the manufacturer. 	
Packaging:	Separate: acc. to standards of the EN 868 and EN ISO 11607. Sets: Sort instruments in trays provided for that purpose or place them on universal sterilization trays. The edges must be protected. Use an appropriate procedure to pack the trays.	
Sterilization:	Steam-sterilize using the fractional vacuum process at 134 °C / 273°F (min. 5 minutes holding time) with equipment acc. to EN 285, validated sterilization processes! To avoid formation of stains and corrosion, the steam must be free of components. The recom- mended limit values of the components for feed-water and steam condensation are defined in EN 285. <u>Validated process:</u> Equipment: Selectomat HP (MMM) 1. Three times pre-vacuum 2. Sterilization temperature 134 °C (273°F) 3. Holding time: 5 minutes 4. Drying time: min. 10 minutes	
Storage:	Acc. to EN 868 and EN ISO 11607.	
Additional information: Do not exceed the maximum load of the sterilizer when sterilizing several within the same sterilization cycle (see indications of equipment manufacturer Additional national standards like AAMI TIR-12-2004 may be applicable		



G 060

06-10/2015

INSTRUCTIONS FOR USE - IFU -

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Contact the manufacturer:	FEHLING INSTRUMENTS GmbH & Co. KG
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Storage / Symbols

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Protect from ex- cessive heat!	Store in dry place! Do not store under +5 °C and over +40 °C for pro- longed periods!	Observe instructions for use	Article number	Attention	

! Each modification to the product or deviation from these instructions of use results in exclusion of liability! Subject to change without notice.

Manufacturer:

FEHLING INSTRUMENTS GmbH & Co. KG, Hanauer Landstr. 7A, 63791 Karlstein/Germany, www.fehling-instruments.de

The instructions above have been validated by the manufacturer of the medical devices as being appropriate for preparation for reuse. The processor is responsible for ensuring that the equipment, material and personnel in the processing facility attain the desired results. Generally, this requires validation and routine monitoring of the process. In the same way, any deviation from the provided instructions should be thoroughly evaluated by the processor with regard to their effectiveness and possible unfavorable consequences.