

G 061 EN

06-08/21



All FEHLING needle holders



This instrument resp. medical device is non-sterile when delivered. It is to be reprocessed prior to use. The instrument must undergo risk assessment according to the RKI Guidelines (non-critical, semi-critical, critical A/B/C) prior to reprocessing. Needle holders may only be used, reprocessed and disposed of by qualified medical personnel!

Needle holders are intended for re-use.

1) Intended purpose

Needle holders are used to hold and manipulate needles during surgical suturing.

Additional information regarding the intended purpose

Duration of application: needle holders are intended for temporary use.

Area of application: needle holders are used for all patients where needles have to be temporarily held and manipulated during surgical suturing.

User profile: needle holders may only be used by medically trained personnel (e.g. specialist physicians).

Application environment: needle holders are only to be used in controlled environments (e.g. OR).

2) Indications

Surgical procedures that require the suturing of tissue structures. The choice of needle holder depends on the anatomical and physiological conditions as well as the field of application. Here care should be exercised to ensure that the needle holders used are of the correct size and have adequate stability.

3) Contraindication

All applications that run counter to the physical and/or mechanical properties of the individual needle holder model are contraindicated. There are no generally applicable contraindications for the use of needle holders.

Nevertheless, increased risks must be taken into account which could result from the anatomical and physiological conditions as well as the clinical picture of the patient.

4) Possible adverse effects

In medical literature, the following adverse effects are described that can possibly occur during the intended use of the instruments:

- Infections

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- Impaired wound healing

Medical devices may, for example, contain chromium, nickel and/or titanium. The materials used are biocompatible, however they may cause allergic reactions or incompatibilities.

G 061 EN

06-08/21



5) Prior to use

FEHLING INSTRUMENTS needle holders are non-sterile when delivered so they have to be cleaned and sterilized by the user before initial use and every time before they are used thereafter (see 6) Reprocessing).

Perform a safety check prior to each use. Check for sharp edges, cracks, fractures or mechanical malfunctions and missing components (see 6) Reprocessing under "Maintenance, Checking and Testing").
Needle holders must be handled with care during storage, transportation and cleaning! Avoid striking the needle holder or applying pressure to its parts so as not to cause any consequential damage! Do not overstrain functional parts!
Always keep the needle holder with lock in a released state. This counteracts premature fatigue of the spring tension.
Micro needle holders are only to be stored and transported in specially designed containers.
Use only sterilized products of sound quality!

6) Rep	6) Reprocessing		
	The medical device is to be reprocessed prior to use. It must undergo risk assessment according to the RKI Guidelines (non-critical, semi-critical, critical A/B/C) prior to reprocessing.		
	The national legal regulations, national and international standards and guidelines as well as the company's own hygiene regulations for reprocessing are to be complied with.		
	The applicable national regulations must be followed for the reprocessing of instruments used in patients with Creutzfeldt-Jakob disease (CJD), suspected CJD or possible variants.		
	The instruments may only be used, reprocessed and disposed of by qualified medical personnel.		
	Handle instruments with care during storage, transport and cleaning! Avoid striking and applying pressure to instruments, so as not to cause any consequential damage! Do not overstrain functional parts!		
	Micro needle holders are only to be stored and transported in specially designed containers.		
	Always keep needle holders separate from general instrument sets if possible.		

G 061 EN



Image: A state of the state of th		
reprocessing product life is normally determined by wear and tear and damage occurring through use (e.g. damage, illegible marking, functional failure - also see "Maintenance, Checking and Testing"). General information on reprocessing Reprocessing is based on a validated procedure. All the cleaning steps mentioned (manual pre-cleaning, automated/manual cleaning, manual disinfection, and sterilization) were validated with the respective parameters specified in each case and listed under "Validated procedure". The recommended reprocessing agents (detergent: Neodisher® MediClean forte used for validation. Both water of potable water quality and fully deionized water (deionized water, demineralized, microbiologically at least of potable water quality) are used for cleaning. Automated reprocessing is preferable to manual cleaning due to a better and safer cleaning result. There is also the option of cleaning our instruments with other tested and approved chemicals which have been recommended by the chemical manufacturer with regard to their material compatibility. Please always observe the manufacturer must be strictly observed. Otherwise, this can lead to visual material changes or material damage, such as, for example, corrosion, fractures or premature aging. Initial treatment at the place of use Pre-cleaning: ensure that blood, tissue and drug residues are removed from the instruments, wisual inspections must be performed to ensure that they undergo mechanical cleaning immediately. After completion of initial treatment of the environment nor the medical devices are endangered or damaged (placement in closed, puncture-proof containers and - if necessary - use of protective caps). Preparation prior to cleaning It is recommended to reprocess the instruments aline solutions (ris	titanium instruments with oxidative processes (processes using hydrogen peroxide Hye.g. Orthovario or Oxivario from Miele). By dissolving titanium, the application of the procedures leads to the destruction of titanium instruments or the titanium-contain CERAMO [®] coating after some time. In the same meaning, do not clean instruments containing plastic components oxidative processes. These processes lead to thermal-oxidative aging of the mate which may under certain circumstances not be detectable by visible discoloration	
information on reprocessingmentioned (manual pre-cleaning, automated/manual cleaning, manual disinfection, and sterilization) were validated with the respective parameters specified in each case and listed under "Validated procedure". The 		product life is normally determined by wear and tear and damage occurring through use (e.g. damage, illegible marking, functional failure - also see
the place of usethe instruments with a disposable cloth/paper wipe immediately after completion of the procedure and that they undergo mechanical cleaning immediately. After completion of initial treatment of the instruments, visual inspections must be performed to ensure that the instruments are complete. The instruments must be transported from the place of use to the place of reprocessing such that neither the user, third parties, the environment nor the medical devices are endangered or damaged (placement in closed, puncture-proof containers and - if necessary - use of protective caps).Preparation prior to cleaningIt is recommended to reprocess the instruments immediately after use because it is very difficult to remove dried residues from instrument parts that are difficult to access. Do not immerse in normal saline solutions (risk of pitting or stress corrosion). Instruments which were connected to each other during use must be disassembled back into their original condition before cleaning.	information on	mentioned (manual pre-cleaning, automated/manual cleaning, manual disinfection, and sterilization) were validated with the respective parameters specified in each case and listed under "Validated procedure". The recommended reprocessing agents (detergent: Neodisher® MediClean forte (Dr. Weigert); disinfectant: Korsolex® med AF (Bode Chemie GmbH)) were used for validation. Both water of potable water quality and fully deionized water (deionized water, demineralized, microbiologically at least of potable water quality) are used for cleaning. Automated reprocessing is preferable to manual cleaning due to a better and safer cleaning result. There is also the option of cleaning our instruments with other tested and approved chemicals which have been recommended by the chemical manufacturer with regard to their material compatibility. Please always observe the manufacturer's information on concentration, exposure time, temperature and renewal of the detergents and disinfectants. All instructions for use of the chemical manufacturer must be strictly observed. Otherwise, this can lead to visual material changes or material damage, such as, for
cleaningbecause it is very difficult to remove dried residues from instrument parts that are difficult to access. Do not immerse in normal saline solutions (risk of pitting or stress corrosion). Instruments which were connected to each other during use must be disassembled back into their original condition before cleaning.		the instruments with a disposable cloth/paper wipe immediately after completion of the procedure and that they undergo mechanical cleaning immediately. After completion of initial treatment of the instruments, visual inspections must be performed to ensure that the instruments are complete. The instruments must be transported from the place of use to the place of reprocessing such that neither the user, third parties, the environment nor the medical devices are endangered or damaged (placement in closed,
Disassembly See 10) Disassembly		because it is very difficult to remove dried residues from instrument parts that are difficult to access. Do not immerse in normal saline solutions (risk of pitting or stress corrosion). Instruments which were connected to each other during use must be
	Disassembly	See 10) Disassembly

G 061 EN

06-08/21

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Manual pre-	Validated procedure:	
cleaning	Equipment:	Basin
		Soft brush
		Water spray gun (or similar)
	Detergent:	Neodisher [®] MediClean forte (Dr. Weigert)
	 cold water of potable has been removed. If (not a wire brush!). Cavities, crevices, (>10 seconds) with c water spray gun (or s Place the products Neodisher[®] MediClea Use only an approve effect. Follow the manufacturer. Ensure that all area solution. If necessary, the mo forth in the cleaning b Remove coarse contaged and the second sec	for 10 - 30 minutes in a solution with 0.5 - 2 % an forte with water (potable water quality, <40 °C). d solution of a detergent that has no protein-fixing instructions of the detergent and disinfectant as of the instrument come into contact with the ving parts of the instrument are moved back and bath. amination using a suitable brush (not a wire brush!)
		time. s for 1 minute in cold deionized water (see "General ocessing") and, if applicable, move movable parts
Cleaning/ Disinfection	If possible, a washer/disinfector according to DIN EN ISO 15883, which uses thermal disinfection, is to be preferred.	
Cleaning: Automated	Avoid overfilling instrum instrument holders.	ent trays and washing trays - use only suitable
		ts in the sterilization baskets and removing them precautions to ensure that the tips do not become
	Validated procedure:	
	Equipment:	Washer/Disinfector G 7835 CD (Miele) / PG 8535 (Miele)
	Cleaning program:	Des-Var-TD (G 7835 CD)
	Detergent:	Neodisher [®] MediClean forte (Dr. Weigert)
	Preparation:	
	-	s are to be placed in the device such, that the joints embled if possible, and that the water can flow from noles.
	If applicable, loosen s	springs



	 Ensure that no areas are Connect the Luer connellock rinsing attachment of Procedure/Parameters: Pre-wash for 3 minutes with forte in water (potable was for 2 minutes with forte in water (potable was Emptying Rinse for 2 minutes with Emptying Rinse for 1 minute with of Emptying Rinse for 1 minute with of Emptying 	ctors of the instruments, if present, to the Luer of the WD. with cold water (potable water quality, <40 °C) h a solution of 0.5 - 2 % Neodisher [®] MediClean ater quality) at 55 °C water (potable water quality, <40 °C) cold deionized water (<30 °C) minutes with deionized water (>90 °C)
		ne, inspect cavities, blind holes, etc. for visible repeat the cycle or clean manually.
Cleaning: Manually	Validated procedure: Equipment:	Basin Soft brush Water spray gun (or similar) Bandelin Sonorex Digitec
	Detergent:	Neodisher [®] MediClean forte (Dr. Weigert)
 (potable water quality, <40 °C) f Move any movable parts, if press of movement. Use a soft brush (not a wire b more contamination is visible. Rinse the instruments for at lead (or similar). <u>Ultrasonic cleaning:</u> Clean for 10 minutes at <40 °C w After ultrasonic cleaning, rinse using a water spray gun (or similar). Rinse the instruments for at lead quality, <40 °C). Deionized water (<40 °C) is 		, if present, back and forth over the entire range wire brush!) to clean the instruments until no
		(or similar). r at least 10 seconds with water (potable water °C) is to be used for the final rinse. The for at least 30 seconds with deionized water.

G 061 EN



Disinfection: Manually	Consult the instructions on the label when selecting a disinfectant (see chemical manufacturer information).		
	Validated procedure:		
	Equipment:	Basin	
		Bandelin Sonorex Digitec	
	Disinfectant:	Korsolex [®] med AF (Bode Chemie GmbH)	
	Procedure/Parameters	<u>S:</u>	
 After cleaning, place the products in an ultrasonic bar with a suitable disinfectant solution (e.g. 0.5 % Kors 5 minutes. Ensure that all surfaces are wetted with applicable, move the moving parts in the disinfer switching on the ultrasonic cleaner. 		that all surfaces are wetted with the disinfectant the moving parts in the disinfection bath before	
	(<40 °C) for at least applicable, move tEnsure that no res	rinse all products thoroughly with deionized wa east 1 minute to remove the disinfectant and, he moveable parts of the instrument back and forth idues remain on the products. -free compressed air.	
Drying	If drying is to be achieved as part of the cleaning/disinfection cycle, do not exceed 120 °C. Then dry with suitable compressed air in accordance with Robert Koch Institute (RKI) recommendations. Pay particular attention to the drying of difficult-to-access areas.		
Assembly	See 9) Assembly		
Maintenance, checking and testing	(e.g. joints), an instrur valid European or Uni steam sterilizable and additionally marked by must not be treated w to stiffness and questi Perform a safety check	movable components that are exposed to frict nent oil based on paraffin/white oil (according to t ted States Pharmacopoeias) which is biocompatit steam-permeable is to be applied. Such places a y a corresponding symbol of an oil can. Instrume ith care products containing silicone. These can le on the effect of steam sterilization. < of the instruments prior to each use. When doing s	
	check for sharp edges missing components.	s, cracks, fractures and mechanical malfunctions a	
	Check instruments	vith movable parts for smooth operation (ave k locking mechanisms.	
	,	magnifying lamp to visually inspect the component	
	•	he critical points on moving parts and in the work	
	Defective or damaged sorted out and clear manufacturer. Repairs	instruments, or those with illegible markings, must ned and disinfected before being returned to to a may only be carried out by the manufacturer or by the manufacturer. A verification form for t form the manufacturer.	
	Instruments that can in metal in accordance instruments with tips of	no longer be repaired must be disposed of as scr with hospital practice. In the case of surgi or sharp edges in particular, safe storage in a close oof disposable container must be ensured. Do not u	
- 		2021-08-25 Page 6	



G 061 EN

06-08/21



Packaging	Singly: In accordance with the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953. Sets: sort instruments into dedicated trays or place them in general-purpose sterilization trays. Pack the trays appropriately using a suitable procedure.		
Sterilization	Steam sterilization in a fractionated vacuum process in a device complying with DIN EN 285 and DIN EN ISO 17665. In order to prevent staining and corrosion, the steam must be free of contaminants. The recommended limits for contaminants for feed water and steam condensate are defined by DIN EN 285.		
	Validated procedure:		
	Equipment: Tuttnauer Autoclave Type B 3870 EHS / Lautenschläger ZentraCert		
	Procedure/Parameters:		
	Cycle type:	3 pre-vacuum phases	
	Sterilization temperature: 132 – 134 °C		
	Holding time:	4 – 5 min.	
	Drying time:	20 min.	
When sterilizing more than one instrument in a sterilization cycle, d exceed the maximum load of the sterilizer (see manufacturer's instruct			
Storage	In accordance with § 4 MPBetreibV (Medical Devices Operator Ordinance) and the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953.		
	Instruments must be stored dry, at room temperature, clean, protected from damage and mechanical influences (avoid condensation, damage). Always keep instruments, if applicable, in a released state. This counteracts premature fatigue of the spring tension.		
	Instruments must be transported to their place of use in a closed, puncture proof sterile container.		
Disposal	These products largely consist of steel or titanium. These are to be cleaned prior to disposal. Disposal can be performed at a scrap metal recycling facility. To protect employees, care must be taken to ensure that any pointed tips or sharp edges are protected.		
preparing a medical or reprocessing actually	device for reuse. It is the res	ne medical device manufacturer as suitable for ponsibility of the reprocessor to ensure that the t, materials, and personnel in the reprocessing requires validation and routine monitoring of the	

Any modification to the device or any deviation from these Instructions for Use will result in exclusion of liability!

Subject to change without notice.

G 061 EN

06-08/21



7) Configuration and application

As a rule, needle holders consist of two branches, which are connected by a closure. To create the clamping effect for holding at the distal jaw, the two branches are pressed together via the proximal handles/handle surface. Using a hypomochlion, the two jaws are moved towards each other by pressing them together.

On models with a catch, the jaws are locked with the catch.

Due to the variety of possible anatomical and physiological conditions, the needle holders differ in their specific characteristics, such as length of the branches or the design of the handles.

According to the needle holder shapes, the needle holders are divided into ring grip, spring grip, pincer grip and tube shaft needle holders.

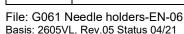
Needle holders with a ring handle are the most commonly used needle holder form these days. Pincer handles are typical for strong needle holders. The spring handle needle holders dominate in the field of microsurgery due to their delicate shape and tube shaft needle holders are designed for endoscopic procedures.

The combination between the needle holders and the different suture variants is provided for. The user selects the appropriate combination product according to his/her individual requirements.

The following basic rules must be observed to prevent premature damage:

 If possible, guide the needles in direction of the longitudinal axis during suturing. This reduces torque and shearing forces.
 Only change the position of the needle when the needle holder is open (released).
 Do not use PLASMA needle holders for needles longer than 30 mm. Rule of thumb for PLASMA needle holders: the length of the needle should not exceed ten times the width of the gripping surface in the gripping section.
 Do not use PLASMA needle holders for needles intended for piercing bone (e.g. sternal wire needles).
 For these needles we recommend our TC needle holders.
 Always use matching needle holder models and sutures (see following table).

CERAMO® Banda	 > 3 mm 1.5 - 2.5 mm 1.0 - 1.5 mm 1.0 - 1.2 mm 0.5 mm 	4x0 and larger 6x0 – 4x0 7x0 – 6x0 7x0 – 6x0 8x0 and smaller
CS) RYDER EUPHRATE, RYDER VASCULAR	1.0 – 1.5 mm 1.0 – 1.2 mm	7x0 – 6x0 7x0 – 6x0
EUPHRATE, RYDER VASCULAR	1.0 – 1.2 mm	7x0 – 6x0
	0.5 mm	8x0 and smaller
CERAMO [®] Rondo	1.0 mm	7x0 and 8x0
CERAMO [®] Plano CERAMO [®] Plano S	1.5 mm	6x0
	2.0 mm	5x0
CERAMO [®] Rondo CERAMO [®] Plano	2.0 – 2.5 mm	Max. 3x0
		CERAMO [®] Rondo



fatigue of the spring tension.

G 061 EN

06-08/21

INSTRUCTIONS FOR USE - IFU -



	Use only sterilized products of sound quality!	
	Prior to inserting the needle holder, ensure that the surgical field has been prepared accordingly beforehand.	
	Medical devices made of ferromagnetic materials must not be exposed to either a magnetic field or external electromagnetic influences.	
	Medical devices containing metals are electrically conductive and must not be exposed to a power source or external electrical influences.	
	The choice of needle holder depends on the anatomical and physiological conditions as well as the field of application. Here care should be exercised to ensure that the needle holders used are of the correct size and have adequate stability.	
During use		
	Always keep micro needle holders in a separate location from other instruments – including while they are on the operating table!	
	Avoid striking the needle holder or applying pressure to its parts so as not to cause any consequential damage! Do not overstrain functional parts!	

8) Required accessories

No accessories are required for using the needle holders.

9) Assembly

Assembly of the needle holder is not necessary.

10) Disassembly

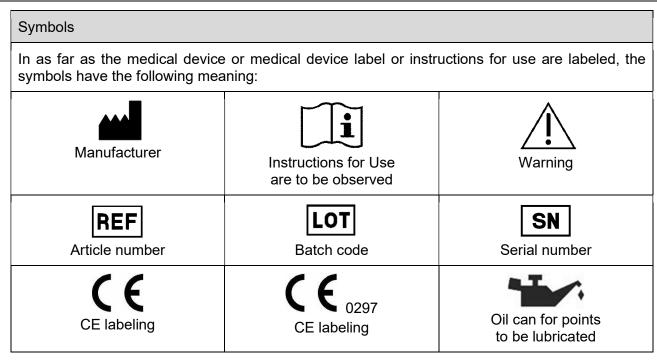
Disassembly of the needle holder is not necessary.

11) Obligation to report serious incidents

The user is obliged to report serious incidents which have occurred in connection with the medical device to the manufacturer by e-mail to vigilance@fehling-instruments.de or via the complaint form at https://www.fehling-instruments.de/en/complaint/ and to the competent authority of the Member State in which the user is domiciled.

G 061 EN





To contact the manufacturer		
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