



## FEHLING scissors (ring handle, micro and tube shaft scissors)



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.

The Scissors (ring handle, micro and tube shaft scissors) may only be used, reprocessed and disposed of by qualified medical personnel!

The Scissors are intended for re-use.

### 1) Intended purpose

Scissors are intended for sharp and blunt separation of tissue or auxiliary materials. Micro scissors are intended exclusively for sharp or blunt separation of delicate tissue structures.

#### Additional information regarding the intended purpose

**Duration of application:** scissors (ring handle, micro and tube shaft scissors) are intended for temporary use.

**Field of application:** scissors are used in all patients where tissue or auxiliary materials need to be separated sharply or bluntly.

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

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

### 2) Indications

Treatment methods requiring (blunt or sharp) separation of tissue or auxiliary materials (ring handle and tube shaft scissors) or exclusively of delicate tissue structures (micro scissors).

### 3) Contraindication

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

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 purpose of the instruments:

- Infections
- Impaired wound healing
- Lesions of structures (tissues, nerves, vessels)



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



5) Prior to use	
The FEHLING INSTRUMENTS scissors 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 section 6) <i>Reprocessing</i> ).	
	Perform a safety check prior to each use. Check for sharp edges, cracks, fractures or mechanical malfunctions and missing components (see section 6) <i>Reprocessing</i> under " <i>Maintenance, Checking and Testing</i> ").
	Scissors must be handled with care during storage, transportation and cleaning! Avoid striking the scissors or applying pressure to its parts so as not to cause any consequential damage! Do not overstrain functional parts!
	Micro scissors are only to be stored and transported in specially designed containers.
	Use only sterilized products of sound quality!

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 scissors are only to be stored and transported in specially designed containers.
	Keep scissors with tube shafts separate from general instrument sets if possible.
	Always keep micro scissors separate from general instruments and, if possible, do not clean them together with other instruments in the WD. In order to prevent deformation or breakage, protect micro scissors from spinning around in the instrument tray. Risk of injury!



	<p>Do not clean CERAMO® instruments (recognizable by their black-brown surface) and titanium instruments with oxidative processes (processes using hydrogen peroxide H<sub>2</sub>O<sub>2</sub>, e.g. Orthovario or Oxivario from Miele). By dissolving titanium, the application of these procedures leads to the destruction of titanium instruments or the titanium-containing CERAMO® coating after some time.</p> <p>In the same meaning, do not clean instruments containing plastic components with oxidative processes. These processes lead to oxidative aging of the material, which may under certain circumstances not be detectable by visible discoloration or embrittlement.</p>
<p>Limitations on reprocessing</p>	<p>Frequent reprocessing has little effect on the labeling of the instruments and does not impair the function of the instruments. The end of 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").</p>
<p>General information on reprocessing</p>	<p>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 (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.</p> <p>Automated reprocessing is preferable to manual cleaning due to a better and safer cleaning result.</p> <p>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 example, corrosion, fractures or premature aging.</p>
<p>Pre-treatment at the place of use</p>	<p>Pre-cleaning: ensure that blood, tissue and drug residues are removed from the instruments with a disposable cloth/paper wipe immediately after completion of the procedure and that they undergo mechanical cleaning immediately. After completion of pre-treatment of the instruments, visual inspections must be performed to ensure that the instruments are complete.</p> <p>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).</p>
<p>Preparation prior to cleaning</p>	<p>It 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).</p> <p>Instruments which were connected to each other during use must be disassembled back into their original condition before cleaning.</p>
<p>Disassembly</p>	<p>See section 10) <i>Disassembly</i></p>



<p>Manual pre-cleaning</p>	<p><u>Validated procedure:</u></p> <p>Equipment:                      Basin    Soft brush    Water spray gun (or similar)</p> <p>Detergent:                        Neodisher® MediClean forte (Dr. Weigert)</p> <p><u>Procedure/Parameters:</u></p> <ul style="list-style-type: none"> <li>• Rinse instruments, if possible in disassembled condition, under running cold water of potable water quality (&lt;40 °C) until all visible contamination has been removed. Remove stubborn contamination with a soft brush (not a wire brush!).</li> <li>• Cavities, crevices, slits and lumens must be rinsed intensively (&gt;10 seconds) with cold water (potable water quality, &lt;40 °C) using a water spray gun (or similar).</li> <li>• Place the products for 10 - 30 minutes in a solution with 0.5 - 2 % Neodisher® MediClean forte with water (potable water quality, &lt;40 °C).</li> <li>• Use only an approved solution of a detergent that has no protein-fixing effect. Follow the instructions of the detergent and disinfectant manufacturer.</li> <li>• Ensure that all areas of the instrument come into contact with the solution.</li> <li>• If necessary, the moving parts of the instrument are moved back and forth in the cleaning bath.</li> <li>• Remove coarse contamination using a suitable brush (not a wire brush!) during the exposure time.</li> <li>• Rinse the instruments for 1 minute in cold deionized water (see "General Information on Reprocessing") and, if applicable, move movable parts back and forth.</li> </ul>
<p>Cleaning/ Disinfection</p>	<p>If possible, a washer/disinfector according to DIN EN ISO 15883, which uses thermal disinfection, is to be preferred.</p>
<p>Cleaning: Automated</p>	<p>Avoid overfilling instrument trays and washing trays - use only suitable instrument holders.</p> <p>When placing instruments in the sterilization baskets and removing them afterwards, take special precautions to ensure that the tips do not become stuck in the mesh.</p> <p><u>Validated procedure:</u></p> <p>Equipment:                        Washer/Disinfector    G 7835 CD (Miele) / PG 8535 (Miele)</p> <p>Cleaning program:                Des-Var-TD (G 7835 CD)</p> <p>Detergent:                         Neodisher® MediClean forte (Dr. Weigert)</p> <p><u>Preparation:</u></p> <ul style="list-style-type: none"> <li>• Instruments with joints are to be placed in the device such, that the joints are opened or disassembled if possible, and that the water can flow from the cavities and sac holes.</li> <li>• If applicable, loosen springs</li> <li>• Ensure that the inside of all cavities is also completely rinsed.</li> </ul>



	<ul style="list-style-type: none"> <li>• Ensure that no areas are left unwashed.</li> <li>• Connect the Luer connectors of the instruments, if present, to the Luer lock rinsing attachment of the WD.</li> </ul> <p><u>Procedure/Parameters:</u></p> <ul style="list-style-type: none"> <li>• Pre-wash for 3 minutes with cold water (potable water quality, &lt;40 °C)</li> <li>• Emptying</li> <li>• Clean for 10 minutes with a solution of 0.5 - 2 % Neodisher® MediClean forte in water (potable water quality) at 55 °C</li> <li>• Emptying</li> <li>• Rinse for 2 minutes with water (potable water quality, &lt;40 °C)</li> <li>• Emptying</li> <li>• Rinse for 1 minute with cold deionized water (&lt;30 °C)</li> <li>• Emptying</li> <li>• Thermodisinfection for 5 minutes with deionized water (&gt;90 °C)</li> <li>• Dry for 30 minutes (90 °C)</li> </ul> <p>After cleaning in the machine, inspect cavities, blind holes, etc. for visible contamination. If necessary, repeat the cycle or clean manually.</p>
<p>Cleaning: Manually</p>	<p><u>Validated procedure:</u></p> <p>Equipment:                      Basin     Soft brush     Water spray gun (or similar)     Bandelin Sonorex Digitec</p> <p>Detergent:                        Neodisher® MediClean forte (Dr. Weigert)</p> <p><u>Procedure/Parameters:</u></p> <ul style="list-style-type: none"> <li>• Place instruments, if possible in disassembled condition, in cold water (potable water quality, &lt;40 °C) for 10 minutes.</li> <li>• Move any movable parts, if present, back and forth over the entire range of movement.</li> <li>• Use a soft brush (not a wire brush!) to clean the instruments until no more contamination is visible.</li> <li>• Rinse the instruments for at least 20 seconds using a water spray gun (or similar).</li> </ul> <p><u>Ultrasonic cleaning:</u></p> <ul style="list-style-type: none"> <li>• Clean for 10 minutes at &lt;40 °C with 0.5 - 2 % cleaning solution at 35 kHz</li> <li>• After ultrasonic cleaning, rinse the instruments for at least 20 seconds using a water spray gun (or similar).</li> <li>• Rinse the instruments for at least 10 seconds with water (potable water quality, &lt;40 °C).</li> <li>• Deionized water (&lt;40 °C) is to be used for the final rinse. The instruments are rinsed for at least 30 seconds with deionized water. Ensure that no residues remain on the products.</li> </ul>







	puncture and break-proof disposable container must be ensured. Do not use damaged instruments!
Packaging	<p>Singly: In accordance with the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953.</p> <p>Sets: sort instruments into dedicated trays or place them in general-purpose sterilization trays. Pack the trays appropriately using a suitable procedure.</p>
Sterilization	<p>Steam sterilization in a fractionated vacuum process in a device complying with DIN EN 285 and DIN EN ISO 17665 (Parts 1 and 2). 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.</p> <p><u>Validated procedure:</u></p> <p>Equipment: Tuttnauer Autoclave Type B 3870 EHS / Lautenschläger ZentraCert</p> <p><u>Procedure/Parameters:</u></p> <p>Cycle type: 3 pre-vacuum phases          Sterilization temperature: 132 – 134 °C          Holding time: 4 – 5 min.          Drying time: 20 min.</p> <p>When sterilizing more than one instrument in a sterilization cycle, do not exceed the maximum load of the sterilizer (see manufacturer's instructions).</p>
Storage	<p>In accordance with § 4 MPBetreibV (Medical Devices Operator Ordinance) and the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953.</p> <p>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.</p> <p>Instruments must be transported to their place of use in a closed, puncture-proof sterile container.</p>
Disposal	<p>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.</p>

The instructions listed above were validated by the medical device manufacturer as suitable for preparing a medical device for reuse. It is the responsibility of the reprocessor to ensure that the reprocessing actually performed using equipment, materials, and personnel in the reprocessing facility achieves the desired results. This normally requires verification and/or validation and routine monitoring of the process. Likewise, any deviation from the provided instructions on the part of the reprocessor should be properly evaluated for effectiveness and potential adverse consequences.



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

Subject to change without notice.



7) Configuration and application	
<p>Scissors are differentiated into ring handle, micro and tube shaft scissors. The jaws of the micro and tube shaft scissors are either straight or bayonet-shaped. Ring handle scissors are available in seven different jaw versions (straight, bent, knee bent, bent sideways, bent S-shaped, bayonet bent sideways and angled). The scissor blade shapes are differentiated into full and beveled blades, different angulations (25°, 45°, 60°, 90°, 125° and 140°) as well as via special scissor blade shapes, such as pointed/blunt or pointed/sharp. The scissor blade shape can be straight, serrated or undulating. In the case of tube shaft scissors, an additional distinction is made between single action and double action.</p>	
	Use only sterilized products of sound quality!
	Prior to using the scissors, 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 scissors depends on the anatomical and physiological conditions as well as the field of application. Here, care should be exercised to ensure that the scissors used are of the correct size and have adequate stability.
During use	
	Avoid striking the instrument or applying pressure to its parts! Risk of injury!
	Use ring handle and tube shaft scissors only for sharp (with the cutting edges) as well as blunt (with the back of the cutting blade) separation of tissues. Do not cut materials (e.g. sutures)! Use material scissors only to separate material or auxiliary materials (e.g. sutures).
	Use micro scissors only for sharp (with the cutting edges) and blunt (with the back of the cutting blade) separation of delicate tissue structures exclusively. Do not cut materials (e.g. sutures)!
	The volume and strength of the tissue or material/auxiliary material to be separated must be appropriate for the design of the scissors! Avoid overloading the instrument! Overloading the instrument can cause plastic deformation of blades and therefore prevent the closure necessary for cutting. Risk of injury!
	CERAMO® surfaces protect against abrasion, but not against plastic deformation. Cutting hard materials causes notches. The material displaced sideways in the notch acts as a spacer between the cutting edges and prevents closing of the scissors required for cutting. Guide the cutting edges so that they are positioned as vertically as possible to the material to be cut.
	To minimize the risk of breakage, avoid subjecting scissors with TC insert to striking and bending loads from the side.





	Always store micro scissors separately from other instruments, including at the operating table.
	During the surgical procedure, rinse repeatedly via the Luer lock connection to prevent residues from drying onto the scissors.

### 8) Required accessories

No accessories are required for using the scissors.  
Scissors are stand-alone instruments. Therefore, a combination with other products is not intended.

### 9) Assembly

Assembly of the scissors is not necessary.

### 10) Disassembly

Disassembly of the scissors 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 either by e-mail to [vigilance@fehling-instruments.de](mailto: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.



Symbols		
<p>Insofar as depicted on the medical device or medical device label or instructions for use, the symbols according to DIN EN ISO 15223-1 have the following meanings:</p>		
 Manufacturer	 Consult instructions for use or consult electronic instructions for use	 Warning
<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>REF</b></div> Catalogue number	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>LOT</b></div> Batch code	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>SN</b></div> Serial number
<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>MD</b></div> Medical device	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>UDI</b></div> Unique device identifier	 CE marking
 Oil can for lubricating points	 CE marking	
To contact the manufacturer		
	FEHLING INSTRUMENTS GmbH & Co. KG Hanauer Landstr. 7A 63791 Karlstein, Germany Tel.: +49 (0) 6188-9574-40 Fax: +49 (0) 6188-9574-45 E-mail: <a href="mailto:info@fehling-instruments.de">info@fehling-instruments.de</a> <a href="http://www.fehling-instruments.de">www.fehling-instruments.de</a>	