Aesculap®

Aesculap Surgical Instruments

en **Instructions for use**
Spring-handle instruments

USA Note for U.S. users
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de **Gebrauchsanweisung**
Instrumente mit Federgriff

fr **Mode d'emploi**
Instruments médicaux à poignée avec ressort

es **Instrucciones de manejo**
Instrumentos con mango de resorte

it **Istruzioni per l'uso**
Strumenti con impugnatura a molla

pt **Instruções de utilização**
Instrumentos com pega de mola

nl **Gebruiksaanwijzing**
Instrumenten met veergreep

da **Brugsanvisning**
Instrumenter med fjederhåndtag

sv **Bruksanvisning**
Instrument med fjäderhandtag

fi **Käyttöohje**
Jousikahvalla varustetut instrumentit

lv **Lietošanas instrukcijas**
Instrumenti ar atsperes rokturi

lt **Naudojimo instrukcija**
Instrumentai su spyruokline rankenėle

ru **Инструкция по применению**
Инструменты с пружинной рукояткой

cs **Návod k použití**
Nástroje s pružinovou rukojetí

pl **Instrukcja użytkowania**
Przyrządy z uchwytem sprężynowym

sk **Návod na použitie**
Nástroje s pružinovou rukoväťou

hu **Használati útmutató**
Rugós markolatú műszerek

sl **Navodila za uporabo**
Instrumenti z vzmetnim ročajem

hr **Upute za uporabu**
Instrumenti s opružnom drškom

ro **Manual de utilizare**
Instrumente cu mâner cu arc

bg **Упътване за употреба**
Инструменти с пружинен захват

tr **Kullanım Kılavuzu**
Yaylı sapı olan aletler

el **Οδηγίες χρήσης**
Όργανα με ελατηριωτή λαβή

B|BRAUN
SHARING EXPERTISE

Aesculap AG | Am Aesculap-Platz | 78532 Tuttlingen | Germany
Phone +49 (0) 7461 95-0 | Fax +49 (0) 7461 95-26 00 | www.aesculap.com

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CE
CE 0123

en

Aesculap®

Spring-handle instruments

Legend

1 Lock
2 Spring handle

1. About this document

Note

General risk factors associated with surgical procedures are not described in these instructions for use.

1.1 Scope

Tools with spring handle, with and without lock.

Note

The applicable CE marking for the product can be found on the label or packaging of the product.

► For article specific instructions for use and material compatibility and lifetime information, see B. Braun eIFU at eifu.bbraun.com

1.2 Safety messages

Safety messages make clear the dangers to patient, user and/or product that could arise during the use of the product. Safety messages are labeled as follows:

⚠ WARNING
Indicates a possible threat of danger. If not avoided, minor or moderate injury may result.

⚠ CAUTION
Indicates a possible threat of material damage. If not avoided, the product may be damaged.

2. Clinical use

2.1 Areas of use and limitations of use

2.1.1 Intended use

The surgical instruments are intended for universal use in various surgical disciplines.

2.1.2 Indications

Note

The manufacturer is not responsible for any use of the product against the specified indications and/or the described applications.

For indications, see Intended use.

2.1.3 Absolute contraindications

No known absolute contraindications.

2.1.4 Relative contraindications

The following conditions, individual or combined, can lead to delayed healing or compromise the success of the operation:

- Medical or surgical conditions (e.g. comorbidities) which could hinder the success of the operation.

In the presence of relative contraindications, the user decides individually regarding the use of the product.

2.2 Safety information

2.2.1 Clinical user

General safety information

To prevent damage caused by improper setup or operation, and to not compromise the manufacturer warranty and liability:

► Use the product only according to these instructions for use.
► Follow the safety and maintenance instructions.
► Ensure that the product and its accessories are operated and used only by persons with the requisite training, knowledge and experience.
► Store any new or unused products in a dry, clean, and safe place.
► Prior to use, check that the product is in good working order.
► Keep the instructions for use accessible for the user.

Note

The user is obligated to report all severe events in connection with the product to the manufacturer and the responsible authorities of the state in which the user is located.

Notes on surgical procedures

It is the user's responsibility to ensure that the surgical procedure is performed correctly.

Appropriate clinical training as well as a theoretical and practical proficiency of all the required operating techniques, including the use of this product, are prerequisites for the successful use of this product.

The user is required to obtain information from the manufacturer if there is an unclear preoperative situation regarding the use of the product.

2.2.2 Sterility

The product is delivered in an unsterile condition.

► Clean the new product after removing its transport packaging and prior to its initial sterilization.

2.3 Application

⚠ WARNING
Risk of injury and/or malfunction!

► Prior to each use, inspect the product for loose, bent, broken, cracked, worn, or fractured components.
► Always carry out a function test prior to each use of the product.

3. Validated reprocessing procedure

3.1 General safety information

Note

Adhere to national statutory regulations, national and international standards and directives, and local, clinical hygiene instructions for sterile processing.

Note

For patients with Creutzfeldt-Jakob disease (CJD), suspected CJD or possible variants of CJD, observe the relevant national regulations concerning the reprocessing of products.

Note

Mechanical reprocessing should be favored over manual cleaning as it gives better and more reliable results.

Note

Successful processing of this medical device can only be ensured if the processing method is first validated. The operator/sterile processing technician is responsible for this.

Note

If there is no final sterilization, then a virucidal disinfectant must be used.

Note

For up-to-date information about reprocessing and material compatibility, see B. Braun eIFU at eifu.bbraun.com
The validated steam sterilization procedure was carried out in the Aesculap sterile container system.

3.2 General information

Dried or affixed surgical residues can make cleaning more difficult or ineffective and lead to corrosion. Therefore the time interval between application and processing should not exceed 6 h; also, neither fixating pre-cleaning temperatures >45 °C nor fixating disinfecting agents (active ingredient: aldehydes/alcohols) should be used.

Excessive measures of neutralizing agents or basic cleaners may result in a chemical attack and/or to fading and the laser marking becoming unreadable visually or by machine for stainless steel.

Residues containing chlorine or chlorides e.g. in surgical residues, medicines, saline solutions and in the service water used for cleaning, disinfection and sterilization will cause corrosion damage (pitting, stress corrosion) and result in the destruction of stainless steel products. These must be removed by rinsing thoroughly with demineralized water and then drying.

Additional drying, if necessary.

Only process chemicals that have been tested and approved (e.g. VAH or FDA approval or CE mark) and which are compatible with the product's materials according to the chemical manufacturers' recommendations may be used for processing the product. All the chemical manufacturer's application specifications must be strictly observed. Failure to do so can result in the following problems:

- Optical changes of materials, e.g. fading or discoloration of titanium or aluminum. For aluminum, the application/process solution only needs to be of pH >8 to cause visible surface changes.
- Material damage such as corrosion, cracks, fracturing, premature aging or swelling.

► Do not use metal cleaning brushes or other abrasives that would damage the product surfaces and could cause corrosion.
► Further detailed advice on hygienically safe and material-/value-preserving reprocessing can be found at www.a-k-i.org, link to "AKI-Brochures", "Red brochure".

3.3 Reusable products

Influences of the reprocessing which lead to damage to the product are not known.

A careful visual and functional inspection before the next use provides the best opportunity to recognize a product that is no longer functional, see Inspection.

3.4 Preparations at the place of use

► If applicable, rinse non-visible surfaces preferably with deionized water, with a disposable syringe for example.
► Remove any visible surgical residues to the extent possible with a damp, lint-free cloth.
► Transport the dry product in a sealed waste container for cleaning and disinfection within 6 hours.

3.5 Cleaning/Disinfection

3.5.1 Product-specific safety information on the reprocessing method

Damage to or destruction of the product due to inappropriate cleaning/disinfecting agents and/or excessive temperatures!

► Use cleaning agents and disinfectants according to the manufacturer's instructions.
► Observe specifications regarding concentration, temperature and exposure time.
► Do not exceed the maximum allowable disinfection temperature of 95°C .
► If the microsurgical products can be securely fixed in machines or storage devices in such a way that they will be cleaned thoroughly, clean and disinfect them mechanically.

3.5.2 Validated cleaning and disinfection procedure

Validated procedure	Specific requirements	Reference
Manual cleaning with immersion disinfection	■ Suitable cleaning brush ■ Disposable syringe 20 ml ■ Keep working ends open for cleaning. ■ When cleaning instruments with movable hinges, ensure that these are in an open position and, if applicable, move the hinge while cleaning. ■ Drying phase: Use a lint-free cloth or medical compressed air	Chapter Manual cleaning/disinfection and subsection: ■ Chapter Manual cleaning with immersion disinfection
Mechanical alkaline cleaning and thermal disinfection	■ Place the product on a tray that is suitable for cleaning (avoid rinsing blind spots). ■ Keep working ends open for cleaning. ■ Place the product on the tray with all product links and joints open.	Chapter Mechanical cleaning/disinfection and subsection: ■ Chapter Mechanical alkaline cleaning and thermal disinfection

3.6 Manual cleaning/disinfection

► Prior to manual disinfecting, allow water to drip off for a sufficient length of time to prevent dilution of the disinfecting solution.
► After manual cleaning/disinfection, check visible surfaces visually for residues.
► Repeat the cleaning/disinfection process if necessary.

3.6.1 Manual cleaning with immersion disinfection

Phase	Step	T [°C/°F]	t [min]	Conc. [%]	Water quality	Chemical
I	**Disinfecting cleaning**	RT (cold)	>15	2	D-W	Aldehyde-free, phenol-free, and QUAT-free concentrate, pH ~ 9*
II	**Intermediate rinse**	RT (cold)	1	-	D-W	-
III	**Disinfection**	RT (cold)	5	2	D-W	Aldehyde-free, phenol-free, and QUAT-free concentrate, pH ~ 9*
IV	**Final rinse**	RT (cold)	1	-	FD-W	-
V	**Drying**	RT	-	-	-	-

D-W: Drinking water
FD-W: Fully desalinated water (demineralized, low microbiological contamination: drinking water quality at least)
RT: Room temperature
*Recommended: BBraun Stabimed fresh

► Note the information on appropriate cleaning brushes and disposable syringes, see Validated cleaning and disinfection procedure.

Phase I
► Fully immerse the product in the cleaning/disinfectant for at least 15 min. Ensure that all accessible surfaces are moistened.
► Clean the product with a suitable cleaning brush in the solution until all discernible residues have been removed from the surface.
► If applicable, brush through non-visible surfaces with an appropriate cleaning brush for at least 1 min.
► Mobilize non-rigid components, such as set screws, links, etc. during cleaning.
► Thoroughly rinse through these components with the cleaning disinfectant solution (at least five times), using a disposable syringe.

Phase II
► Rinse/flush the product thoroughly (all accessible surfaces) under running water.
► Mobilize non-rigid components, such as set screws, joints, etc. during rinsing.
► Drain any remaining water fully.

Phase III
► Fully immerse the product in the disinfectant solution.
► Mobilize non-rigid components, such as set screws, joints, etc. during rinsing.
► Rinse lumens at least 5 times at the beginning of the exposure time using an appropriate disposable syringe. Ensure that all accessible surfaces are moistened.

Phase IV
► Rinse/flush the product thoroughly (all accessible surfaces).
► Mobilize non-rigid components, such as set screws, joints, etc. during final rinse.
► Rinse lumens with an appropriate disposable syringe at least five times.
► Drain any remaining water fully.

Phase V
► Dry the product in the drying phase with suitable equipment (e.g. cloth, compressed air), see Validated cleaning and disinfection procedure.

3.7 Mechanical cleaning/disinfection

Note

The cleaning and disinfection device must be of tested and approved effectiveness (e.g. FDA approval or CE mark according to DIN EN ISO 15883).

Note

The cleaning and disinfection device used for processing must be serviced and checked at regular intervals.

3.7.1 Mechanical alkaline cleaning and thermal disinfection

Machine type: single-chamber cleaning/disinfection device without ultrasound

Phase	Step	T [°C/°F]	t [min]	Water quality	Chemical/Note
I	**Pre-rinse**	<25/77	3	D-W	-
II	**Cleaning**	55/131	10	FD-W	■ Concentrate, alkaline: – pH = 13 – <5 % anionic surfactant ■ 0.5 % working solution – pH = 11*
III	**Intermediate rinse**	>10/50	1	FD-W	-
IV	**Thermal disinfecting**	90/194	5	FD-W	-
V	**Drying**	-	-	-	According to the program for cleaning and disinfection device

D-W: Drinking water
FD-W: Fully desalinated water (demineralized, low microbiological contamination: drinking water quality at least)
*Recommended: BBraun Helimatic Cleaner alcaline

► Check visible surfaces for residues after mechanical cleaning/disinfecting.

3.8 Inspection

► Allow the product to cool down to room temperature.
► Dry the product if it is wet or damp.

3.8.1 Visual inspection

► Ensure that all soiling has been removed. In particular, pay attention to mating surfaces, hinges, shafts, recessed areas, drill grooves and the sides of the teeth on rasps.
► If the product is dirty: repeat the cleaning and disinfection process.
► Check the product for damage, e.g. insulation or corroded, loose, bent, broken, cracked, worn or severely scratched and fractured components.
► Check the product for missing or faded labels.
► Check the surfaces for rough spots.
► Check the product for burrs that could damage tissue or surgical gloves.
► Check the product for loose or missing parts.
► Immediately put aside damaged or inoperative products and send them to Aesculap Technical Service, see Technical service.

3.8.2 Functional test

⚠ CAUTION

Damage (metal cold welding/friction corrosion) to the product caused by insufficient lubrication!

► **Prior to function checks, lubricate moving parts (e.g. joints, pusher components and threaded rods) with maintenance oil suitable for the respective sterilization process (e.g. for steam sterilization: STERILIT® I oil spray JG600 or STERILIT® I drip lubricator JG598).**

► Check that the product functions correctly.
► Check that all moving parts are working property (e.g. hinges, locks/latches, sliding parts etc.).
► Check rotating products (e.g. reusable drills and cutters) for bends and deformities. To do this, roll the product on an even surface.
► Check for compatibility with associated products.
► Immediately put aside inoperative products and send them to Aesculap Technical Service, see Technical service.

3.9 Packaging

► Store products with ratchet locks fully opened or locked no further than in the first notch.
► Place the product in its holder or on a suitable tray. Ensure that sharp edges are covered.
► Package trays appropriately for the sterilization process (e.g. in Aesculap sterile containers).
► Ensure that the packaging provides sufficient protection against contamination of the product during storage.

3.10 Steam sterilization

Note

To avoid breakage due to stress crack corrosion, sterilize the instruments with the lock fully open or locked no further than on the first ratchet tooth.

► Check to ensure that the sterilizing agent will come into contact with all external and internal surfaces (e.g., by opening any valves and faucets).
► Validated sterilization process
  – Steam sterilization in fractionated vacuum process
  – Steam sterilizer in accordance with DIN EN 285 and validated in accordance with DIN EN ISO 17665
  – Sterilization in fractionated vacuum process at 134 °C, holding time 5 min
► If several devices are sterilized at the same time in the same steam sterilizer: Ensure that the maximum permitted load according to the manufacturers' specifications is not exceeded.

3.11 Storage

► Store sterile products in germ-proof packaging, protected from dust, in a dry, dark, temperature-controlled area.

4. Technical service

⚠ CAUTION

Modifications carried out on medical technical equipment may result in loss of guarantee/warranty rights and forfeiture of applicable licenses.

► **Do not modify the product.**
► **For service and repairs, please contact your national B. Braun/Aesculap agency.**

Service addresses
Aesculap Technischer Service
Am Aesculap-Platz
78532 Tuttlingen / Germany
Phone: +49 7461 95-1601
Fax: +49 7461 16-2887
E-Mail: ats@aesculap.de
Other service addresses can be obtained from the address indicated above.

5. Disposal

⚠ WARNING

Risk of infection due to contaminated products!

► **Adhere to national regulations when disposing of or recycling the product, its components and its packaging.**

Note

The user institution is obliged to reprocess the product before its disposal, see Validated reprocessing procedure.

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