Instruction for useRe-usable VET- instruments





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1. GENERAL INFORMATION

It is absolutely essential that all conditions contained in these instructions are met and all special information taken into account. Otherwise, these products may not be clinically used. In addition, any instructions for use specific to the projects must be carefully followed. Should uncertainties, disagreements or questions arise, please contact us before (re)using or preparing the products. These Instructions for Use do not replace the training, care and best available technology for the user. Therefore, we assume that the statutory provisions, standards and recommendations (e.g. from RKI or AKI) are known (see "Standards/References) and therefore, we restrict ourselves to the instructions and information for each product to be followed by the user, which are of importance for our products.

The reasons for these instructions and risks that result from non-observance are listed in the statutory provisions and recommendations.

READ ALL APPLICABLE INSTRUCTIONS FOR USE VERY CAREFULLY BEFORE PREPARING OR USING A PRODUCT FOR THE FIRST TIME.

2. INFORMATION AND SYMBOLS ON LABELS



Article or Order number



Symbol of Manufacturer



Caution, observe the accompanying documentation!



Observe the Instructions for Use



Batch number



Information about NON-sterile product

3. INTENDED USE

Exclusively adequately qualified personnel may only use the instruments in order to fulfil their defined functions. The attending veterinary or rather the user is responsible for the selection of instruments for certain utilization and accordingly to the surgical use, the adequate train- ing and information and the sufficient experience for the handling with the instruments.

Distractors are intended for use as a bone stabilizer and lengthening (and/or transport) device for correction of traumatic defects of the bones, where gradual bone distraction is required.

Scissors with and without carbide inserts Some Scissors by ABARUT can be used to sever tissue, organs, bones, bandaging materials and suture materials. Union Scissors can be used to cut bandage.

Wire Cutting Instruments wire cutting pliers are frequently used to cut bone wires. The maximum wire diameter to be cut can be determined on the basis of the features of the wire.

Punches ABARUT punches are primarily used in neurosurgery and orthopedics for the preparation of cartilage and bones in the spine. However, the swages can also be used in other areas of medicine.

Bone rongeur and forceps are used to prepare parts of the cartilage and bone. They are also used to sever fine bones. They are primarily used in orthopedics.

Chisels, osteotomes and gouges are used to prepare bones.

Scalpels are used to sever tissue, vessels and organs. A sharp, even grinding of the blade is important for good cutting ability. The grinding is either hollow or flat.

Clamps are instruments used to grip, hold and clamp blood vessels, tissue, organs and medical supplies. They are classified as follows: Hard gripping clamps, Soft gripping clamps, Atraumatic clamps, Anatomical clamps, surgical clamps

Needle holders are used to grip and hold surgical suture needles during an operation. In medicine, sutures are only inserted using a needle holder. The right choice of needle holder is important. The appropriate needle holder can be determined using the list on the left hand side.

Forceps are used to hold and grip tissue, organs, medical supplies and materials. Forceps are divided into three main categories: Anatomical forceps Atraumatic forceps surgical forceps

Pliers are used to remove bone wires and rods. The beaks are design with and without carbide inserts.

Handheld Trocars are used in minimally invasive surgery, a sharp or blunt trocar is used to create access to a body cavity, and this is kept open with a tube. Various different instruments can be inserted into the body cavity through this tube.

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Wound spreaders are surgical instruments, which are used to keep an operating area open. Unlike tissue retractors, wound spreaders are self-holding instruments. This is mostly achieved using a rest lock.

Abdominal retractors are surgical instruments, which are used to keep an operating area open. Unlike tissue retractors, abdominal blades are self-holding instruments. This is mostly achieved using a rest lock.

Wound retractors are used to hold tissue, organs and bones and to spread the edges of wounds.

Rib retractors are used to spread the sternum during a heart operation.

Speculum is a medical examination instrument, which is primarily used in gynecology and ear, nose and throat medicine.

Plate cutting instrument may be used to divide a bone plate in the area of the connecting bridge between two screw holes. As a precaution when cutting a plate, the plate end to be cut should never be directed toward the patient or a third party to prevent the risk of injury from the plate segment spinning off. It is advisable to cover the plate segment to be cut with a towel or other material to prevent the segment from spinning off in the first place. The shortened bone plate segment should be de-burred after cutting (see matching de-burring instruments in the leaflet) to prevent injury to or irritation of the soft tissue.

Plate and Screw Holding Instruments The use of implant holding instruments for safe manipulation/positioning is particularly advisable in areas of poor accessibility or areas in which freedom of movement is limited.

Drill Guides Centric and eccentric drill guides (in conjunction with compression plates) ensure a low-strain seat of the bone screw in the bone plate and thus, make maximum axial compression possible (for compression techniques).

Containers and Storage are intended to store or store temporarily instruments, objects or materials. Further containers are used for storage resp. dispensers for instruments.

4. MATERIALS USED

Surgical instruments are made of stainless steel according to ISO 7153-1 and EN 10088-3, and of Ti6Al4V alloy in accordance with ISO 5832-3/ASTM F136 and biocompatible, autoclavable, non-metallic materials on an individual basis.

5. POSSIBLE ADVERSE EFFECTS

In most cases, possible complications are not directly related to the use of the instruments, but are more likely attributed to the incorrect selection of the patient, inadequate training.

- 1. Increased fibrous tissue response around the osteotomy area.
- 2. Early or late infection, both deep and/or superficial.
- 3. Nerve damage may occur as a result of the surgical intervention.
- 4. Metal sensitivity reactions in patients have rarely been reported, and their significance awaits further clinical evaluation.

6. CONTRAINDICATIONS

The circumstances listed below may reduce the chances of a successful outcome:

- 1. Insufficient quantity or quality of bone, which would inhibit rigid fixation of the device.
- 2. Compromised vascularity.
- 3. Previous history of infections.
- 4. Ulcers in the area where the device is to be placed, or the use of radiation or chemotherapy.
- 5. Mental, physical or neurological conditions, which may impair the patient's ability to cooperate with the postoperative regimen.

7. GENERAL WARNINGS AND PRECAUTIONS FOR USE

The products are supplied NON-STERILE. Sterile packaged products are labeled accordingly.

Check the identity, completeness, intactness and function upon receipt of the products before making them available for use.

Check instruments for breakage, cracks, deformations, damage and functional ability before each use. Particular attention should be paid to areas such as blades, tips, box locks, locks, ratchets and all moveable parts. Worn, corroded, deformed, porous or otherwise damaged instruments must be sorted.

The surgeon and all other persons involved in the use of the products are responsible in regards to their field of activity to have appropriate product knowledge based on the current technology standard. This ensures proper use of the product and prevents health or safety risks to patients, users or third parties.

Additional sources of information for the products may include applicable product catalogs, videos, technical specifications, instructions from medical product advisors, working committees, seminars, specialized courses, publications, etc. Appropriate product training, including proper handling, is required before clinical use.

The indications on the use of the products represent a group of standard instructions that can be adjusted to the particular needs and situations that may arise according to the ability, experience and diagnosis made by a legally qualified medical user. Responsibility for proper selection of patients, adequate training, rests with the surgeon.

The surgeon should discuss the expectations of surgery inherent in the use of the product with the patient. Particular attention should be given to a postoperative discussion and the necessity for periodic medical follow-up.

The correct selection of the product is extremely important. This can be determined by evaluating the patient's functional demands and anatomy. See also other general scientific documents with detailed indications regarding the selection of instruments.

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Careful handling and storage of the products is required. The patient must be instructed on proper postoperative hygiene procedures and should be advised to report any unusual changes in the operated site to the surgeon. The surgeon should evaluate the possibility of subsequent clinical failure and discuss the need for any measures deemed necessary to aid healing with the patient.

After contact with or use on patients with Creutzfeldt - Jakob disease (CJD) or its variants, we decline all responsibility. In this regard, take notice that the unused instruments in the trays could have also been contaminated.

Preparation and reuse even according to the RKI Guidelines rests solely on one's own responsibility.

8. RETURNS

All returns of products to us is only allowed after a visible disinfection/sterilization has been performed (respective packaging with sterilization indicator, decontamination certificate etc.).

The corresponding hygiene and company regulations are to be adhered to.

9. PREPARATION, CLEANING, DISINFECTION, MAINTENANCE AND STERILIZATION OF INSTRUMENTS

10.1 General Principles

All instruments must be cleaned, disinfected and sterilized before each use. This also applies to initial use after delivery of instruments in particular, which are supplied non-sterile (cleaning and disinfection after removal of the protective transportation packaging; sterilization after packaging). Sterile packaged products are labeled accordingly upon delivery. Effective cleaning and disinfection is an absolute requirement for an efficient sterilization.

Please pay particular attention that contaminated instruments are separated and not placed back into the instrument tray once used to prevent increased contamination of the filled instrument tray. Clean/disinfect reusable contaminated instruments, sort them again into the instrument tray and then sterilize the fully filled and previously cleaned/disinfected instrument tray.

With regard to your responsibility for the sterility of the instruments, please ensure, as a matter of principle, that only adequate methods validated based on the device and product, are used for cleaning/disinfection and sterilization, that the devices used (RDG, sterilizer) are regularly maintained and checked, and that the validated parameters are observed during each cycle.

Please also follow the statutory provisions valid in your country and the hygiene regulations of the medical practice or hospital. This particularly applies to the various specifications with regard to effective prior inactivation.

10.2 Cleaning and Disinfection

Basic Principles

A mechanical method (RDG - cleaning and disinfection machines / disinfectors) should be used when possible to clean and disinfect instruments. A manual method – even when using an ultrasonic bath – should only used if a mechanical method is unavailable due to the much lower effectiveness and reproducibility of the manual method¹.

¹ The use of a manual cleaning and disinfection method must be verified by the user by means of an additional product and procedure specific validation.

Pre-treatment is required in both cases.

Pre-treatment

General contamination must be removed from the product directly after use (within a maximum of 2 hours).

To maximize cleaning and disinfection efficiency, products consisting of several components that can be disassembled should be disassembled according to the product specific Instructions for Use and the instructions in the section "Special Instructions" as the case may be (replaceable parts, accessories, adapters, interchangeable inserts, etc.).

Use running water or a disinfectant solution; the disinfectant should be aldehyde-free (otherwise fixation of blood contamination), exhibit proven effectiveness (e.g. VAH/DGHM or FDA approval or CE mark), be suitable for the disinfection of instruments and be compatible with the instruments (see chapter "Material Resistance").

Only use a soft brush or a soft clean towel intended for this purpose to manually remove impurities, i.e. never use metal brushes or steel wool.

Please note that the disinfectant used for pre-treatment is intended for personal safety only and cannot replace the disinfection step to be performed after a successful cleaning.

Mechanical Cleaning/Disinfection (RDG)

In selecting the RDG, ensure that:

- The RDG exhibits proven effectiveness (e.g. DGHM or FDA approval or CE mark according to DIN EN ISO 15883).
- A proven program for thermal disinfection is used (minimum of 5 min. at 134 °C or A₀ value > 3000) if possible (for chemical disinfection, risk of disinfectant residues on the instruments).
- The program used for the instruments is suitable and contains adequate rinsecycles.
- That the water suitable for rinsing (e.g. Aqua purificata/Aqua purficita valde) is used, and furthermore that the air used for drying is filtered and therefore not decrease the hygiene status at this point.
- The RDG is regularly maintained and tested.

In selecting the detergent system used, ensure that:

- It is generally suitable for cleaning the instruments.
- If no thermal disinfection is used, a suitable disinfectant with proven effectiveness (e.g. VAH/DGHM or FDA approval or CE mark) and the disinfectant is compatible with the detergent is used and
- The chemicals used are compatible with the instruments (see chapter "Material Resistance").

The detergent and disinfectant concentrations specified by the manufacturer must be strictly followed.

Procedure:

- 1. Disassemble the instruments to the maximum extent possible.
- Place the disassembled instruments in the RDG. Make sure that the instruments do not touch one another.

IFU : Re-Usable Surgical Instruments (English)

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- If products with narrow lumens or cavities cannot be connected, they must be placed in the RDG to allow water and disinfectant to drain.
- Start the program.
- 5. Take the instruments out of the RDG after program completion.
- Check and package the instruments if possible immediately after removal from the RDG (see Chapters "Control", "Maintenance" and "Packaging" and if necessary after an additional final drying process in a clean area).

Proof of basic suitability of the instruments for an effective mechanical cleaning and disinfection has been furnished by an independent accredited test laboratory using the "RDG G 7836 CD" (thermal disinfection, Miele & Cie. GmbH & Co., Gütersloh, Germany) and the detergent "Neodisher mediclean forte" (Dr. Weigert GmbH & Co. KG, Hamburg). The method described above was considered.

11. INSPECTION AND TESTING PRIOR TO REUSE

Before each use, the instruments must be thoroughly inspected for damage such as fractures, cracks or deformation, as well as for functional reliability. Special attention must be paid to cutting edges, tips, joints, box locks, ratchets and all movable parts. If wear, corrosion, deformation, porosity or other damage is detected, the instrument must be immediately withdrawn from service. Due to their alloy, stainless steel instruments typically develop a passive film in the form of a protective layer. However, this film does not protect them well against chemical attack by chloride ions and aggressive media and liquids! Therefore, in addition to the instrument manufacturer's endeavors to select the right materials and process them carefully, the user must make an important contribution by ensuring proper instrument processing along with adequate and regular care.

12. PACKAGING

Sort the cleaned and disinfected instruments into the sterilization trays and package them in single use sterilization packaging (single and double packaging) and/or sterilization containers that meet the following requirements:

- In compliance with DIN EN 868/ANSI AAMI ISO 11607 and EN 868-2 until -10.
- Suitable for steam sterilization (temperature resistant up to min. 137 °C (279 °F), sufficient vapor permeability)
- Sufficient protection of instruments or sterilization packaging from mechanical damage
- Regular maintenance according to manufacturer specifications (sterilization containers)

13. STERILIZATION

Only the sterilization methods listed below are to be used for sterilization; no other sterilization methods are permitted.

Steam sterilization

- Fractional vacuum method/pre-vacuum method or gravitational method² (with sufficient drying of product)
- Steam sterilizer according to DIN EN 13060 or DIN EN 285
- Validated according to DIN EN ISO/ANSI AAMI ISO 17665 (valid commissioning and product specific performance assessment)
- Maximum sterilization temperature 134 °C (273 °F; plus tolerance according to DIN EN ISO/ANSI AAMI ISO 17665) Sterilization time (exposure time at sterilization temperature) at least 5 min. 3 at 132 °C (270 °F) / 134 °C (273 °F)
- - The less effective gravitational method should only be used when the fractional vacuum/pre-vacuum method is unavailable.
 - ³ Or 18 min. (prion inactivation)

Proof of the basic suitability of the instruments for an effective steam sterilization has been furnished by an independent accredited test laboratory using the steam sterilizer "Systec V-150, Systec Labor- Systemtechnik, Wettenberg" using the fractional vacuum method and gravitational method. The method described above was considered.

The rapid sterilization method is generally is not permitted. Also do not use any hot air sterilization, no radiation sterilization, no formaldehyde or ethylene oxide sterilization and no plasma sterilization.

CAUTION: STERILIZATION IS NOT A SUBSTITUTE FOR CLEANLINESS.

14. STORAGE

After sterilization, the instruments must be stored in the sterilization package and kept dry and dust-free.

15. MATERIAL RESISTANCE

When selecting the detergent and disinfectant, please ensure that they do not contain the following components:

- Organic, mineral and oxidizing acids
- Strong lye solutions (pH > 11 not permitted, mildly alkaline cleaners recommended)
- Organic solvents (alcohols, acetone, etc.), benzines
- Halogenated hydrocarbons, chlorine, iodine

Never clean instruments, travs or containers with metal brushes or steel wool.

Instruments, trays and containers should never be exposed to temperatures above 137 °C (279 °F).

Please be noted that special Instructions and handling care needs to be accounted for all **Aluminium** Instruments:

- **Do not** use alkaline cleaners > ph 7 for aluminium instruments!!
- Do not clean Aluminium instruments in an ultrasonic unit!, Clean by hand or in some automated washers
- Anodized aluminum instruments should not be sterilized with stainless steel instruments, it may cause an adverse chemical reaction.

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16. REUSABILITY

The instruments can, by the respective thoroughness and providing that they are not damaged and fully functional, be prepared again and reused. The life cycle is limited due to damage and normal wear; these products are to be separated after preparation from the others. Please consider the limits from Chapter 9, last paragraph regarding Creutzfeldt-Jacob disease (CJK).

ABARUT does not define the maximum number of usage or preparation cycles of reusable instruments. The life cycle is dependent upon many factors including the type and length of usage, as well as handling, storage and transport of the instruments. Thorough examination and function testing before the next use is the best possible way to detect non-functioning instruments and sort them out.

We would like to point out that also through the accumulation of detergent residuals, the biological compatibility of the instruments can no longer given. This lies in the observation obligation of the user.

We assume no liability resulting from failure to observe these guidelines.

17. WARRANTY

Safety Instructions: Responsibility for proper cleaning, disinfection and sterilization of products is the sole responsibility of the operator / product user. National regulations including limitations must be carefully followed.

ABARUT supplies tested products free of defects to their customers. All our products are designed and manufactured to meet the highest quality demands

ABARUT as the manufacturer of the products excludes any warranty claims and assumes no liability for direct or consequential damage as a result of:

- Misuse
- Improper use, application or handling
- Improper preparation and sterilization
- Improper maintenance and repair
- Failure to observe the Instructions for Use

18. STANDARDS - REFERENCES

- AKI1 "Proper Maintenance of Instruments" Guide
- RKI² Recommendation: "Hygiene Requirements with regard to the Preparation of Medical Products"
- DIN EN 285 Large steam sterilizers
- DIN EN 13060 Small steam sterilizers
- DIN EN ISO 15883-1-3 Washer-Disinfectors
- DIN EN ISO/ ANSI AAMI ISO 11607 and EN 868-2 until -10 Packaging materials
- DIN EN ISO 17664/ ANSI AAMI ST81 Sterilization Manufacturer's Information
- DIN EN ISO 17665-1 Sterilization process Moist heat
 - ¹ AKI: Working Group Instrument Preparation
 - ² RKI: Robert-Koch-Institute

