



# GIMA

PROFESSIONAL MEDICAL PRODUCTS

**FORBICI BIPOLARI (RIUTILIZZABILI)**  
**BIPOLAR SCISSORS (REUSABLE)**  
**CISEAUX BIPOLAIRES (RÉUTILISABLES)**  
**BIPOLARE SCHERE (WIEDERVERWENDBAR)**  
**TIJERAS BIPOLARES (REUTILIZABLES)**  
**TESOURA BIPOLAR (REUTILIZÁVEL)**  
**Διπολικό Ψαλίδι (Επαναχρησιμοποιούμενο)**

**REF** 30310



Tecno Instruments Pvt. Ltd.  
316C Small Industrial Estate  
Sialkot, 51340 - Pakistan  
Made in Pakistan



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Obelis UK, Sandford Gate, East  
Point Business Park, OX4 6LB -  
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### Description/Intended Use:

These devices are reusable and are supplied non-sterile. Process through cleaning and sterilization prior to initial use. These devices are designed to be used as accessories in conjunction with those cables and electrosurgical units with which they are known to be compatible. Their use enables the operator to remotely conduct an electrosurgical current from the output connector of an electrosurgical unit and accessory cables to the operative site for the desired surgical effect.

### Compatibility

| Scissors Type | Instrument Connector | ESU Generator Connector |
|---------------|----------------------|-------------------------|
| Regular       | Ethicon              | 4.0 mm Plug             |

### Reuse:

We guarantee our products to withstand a minimum of 20 sterilization cycles when sterilized in accordance with the validated instructions contained herein. Care in use and handling can extend useful life.

| Reccomended Voltage | Shelf Life | Operation Environment   |
|---------------------|------------|---|
| 250 Vp              | 5 Years    | Temperature: 5°C to 40°C<br>Humidity: 0% to 90% R.H.<br>Pressure: 70 kPa to 106 kPa |

### Contraindications:

Incidents which have been reported in connection with the use of bipolar systems:

Unintended activation with resulting tissue injury on the wrong spot and/or damage to the equipment.

Alternating current paths leading to burns on spots where the patient or user comes into contact with components without insulation.

In the presence of flammable gases, liquids, and/or oxygen enriched environments.

Electrosurgery is potentially hazardous for patients with active implants such as pacemakers, AICDs and neuro stimulators.

### Use and Safety Instructions:

The non-observance of the present use and safety instructions may lead to injuries, malfunctions, or other unexpected incidents.

1. Before initial use and any other use, all instruments must be completely cleaned, disinfected, sterilized and their functionality must be examined.
2. It is especially important to check each instrument for visible damage and wear, such as cracks, breaks or insulation defects before each use.
3. Never use damage instruments.
4. Never use the instruments in the presence of flammable or explosive substances.
5. The instrument may not be laid down on the patient.
6. Frequently clean the tips from blood and debris.
7. Coagulation should only be performed if the contact surfaces are visible and ensure a good contact to the tissue selected for coagulation.
8. Do not touch any other metallic instruments, trocar sleeves, optics or the likes during use.

### Users:

This device only be used by persons who are specially trained doctors.

### Patient population:

This device is suitable for use for children and adult.

### Performance Claims:

- These medical devices are made of biocompatible material which conforms to ENS ISO 10993-1 standard.
- These medical device conforms to IEC 60601-2-2 standard for electrical safety.
- These medical device conforms to IEC 60601-1 for basic safety & essential requirements.

**Prior to use:**

Before connecting forceps and cables to an electrosurgical unit, make sure that the unit has been switched off or is in standby mode. Disregarding these instructions may lead to burns and electrical shock.

**During Use:**

Always use the lowest power setting available to achieve the desired surgical effect.

**Point of Use Treatment (In The Operating Room):**

1. Disconnect cable from forceps.
2. Clean Device as soon as possible after use.
3. Remove excess solids using disposable lint free wipes, enzymatic foam or per hospital procedure. Soiled devices should be separated from unsoiled devices. Soiled devices should be covered with a lint free towel dampened with tap, sterile or critical water to prevent blood and/or debris from drying. Encrusted soil can increase the time and effort required to complete processing.
4. If the recommendations in the steps above are not possible, the device may be placed in container and immersed in tap, sterile or critical water and covered for transport to the processing area.
5. Do not use aggressive/abrasive cleaners.
6. Follow the cleaning and sterilization instructions below.

**Cleaning (After Procedure):**

Cleaning should be performed as soon as possible after use, preferably within one hour of use. The device has been designed for thorough cleaning and safe sterilization, without disassembly. It is the responsibility of the end user to ensure that the cleaning is performed using appropriate equipment, materials and personnel to achieve the desired result.

The user must ensure that cleaning and sterilization are conducted in accordance with the appropriate guidelines, standards, or National Health Authority requirements. Hospital grade low foaming neutral pH to mildly alkaline enzymatic detergents, hospital grade low foaming neutral pH detergents (pH 7-9) or hospital grade low foaming mildly alkaline detergents with a pH of  $\leq 11$  (prepared according to manufacturer's instructions) should be used. "Detergent(s)" will be used generically throughout the rest of these instructions.

Ensure that detergent manufacturer instructions are followed for concentration, temperature and water quality throughout the cleaning process. When using mildly alkaline detergents, critical water should be used throughout the cleaning process.

Further information regarding the use of specific cleaning agents, ultrasonic washers, washer-disinfector, packaging materials or sterilizers during validation studies are available on request. The following detergents were used during validation process.

- Manual Pre-Cleaning with neodisher® MediZym Enzymatic Detergent - 5 mL/L at 40°C
- Manual Cleaning with neodisher® MediZym Enzymatic Detergent - 5 mL/L at 40°C
- Manual Disinfection with Johnson & Johnson CIDEX OPA
- Automated WD Cleaning & Disinfection with neodisher® MediClean forte - 2 mL/L at 55°C

The chemical quality of the water used during processing can impact device safety. Facilities should use the recommended water quality requirements for device processing in accordance with local guidance (such as AAMI TIR 34, Water for the processing of medical devices), detergent manufacturers and these instructions for use. Critical water is recommended for thermal disinfection and final rinsing of devices. For the purpose of these instructions for use, critical water is defined as a treatment process that may include deionization.

**Pre-Cleaning: Manually**

**Equipment:** Enzymatic cleaner, cleaning brush, tap water/flowing water ( $20\pm^{\circ}\text{C}$ ), tank/basin, ultrasonic bath.

1. Rinse the medical device completely under cold running tap water at least drinking water quality) for minimum of 1 minute.
2. The cleaner is prepared in accordance with the manufacture's instruction for the detergent and filled in the ultrasonic bath.
3. Soak the medical device completely in the ultrasonic bath.
4. Brush the hard-to-reach areas of submerged instrument with soft brush for 1 minute (min.). Pay attention to the critical hard to reach areas where it is not possible to assess the cleaning efficacy.
5. Make sure that all surfaces are completely moistened with cleaning solution. Start the Ultrasonic for at least 10 minutes (temperature max.  $40^{\circ}\text{C}$ , ultrasonic frequency 35kHz).
6. Start the ultrasonic for at least 10 minutes (temperature max.  $40^{\circ}\text{C}$ , ultrasonic frequency 35kHz).
7. Remove the medical device from the ultrasonic bath and rinse under cold running tap water for 1 minute (min.).

### **Cleaning: Manually**

**Equipment:** Enzymatic Cleaner, tap water/flowing water ( $20\pm^{\circ}\text{C}$ ), tank/basin, demineralized water ( $20\pm^{\circ}\text{C}$ ).

1. The cleaner is prepared in accordance with the manufacture's instruction.
2. Soak the medical device completely in the cleaning solution.
3. Move the movable parts of the medical device 3 times in the cleaning solution.
4. Make sure that all surfaces are completely moistened with cleaning solution.
5. Exposure time (10 minutes) or as manufacture's instructions.
6. Remove the medical device from the cleaning solution.
7. Rinse the medical device completely under demineralized water for minimum of 1 minute. to remove the cleaning solution completely.  
Check for cleanliness, if dirt is visible, repeat the steps above.

### **Disinfection: Manually**

**Equipment:** Non-protein-fixing VAH-listed instrument disinfectant, cleaning brush, demineralised water ( $20\pm^{\circ}\text{C}$ ), disinfection tank, lint free gauze and/or medical quality compressed air.

1. Fill the disinfectant tank with disinfectant solution.
2. Immerse the medical device completely in the disinfectant solution.
3. Brush the hard-to-reach areas of submerged medical device with soft brush for 1 minute (min.).
4. Move the moveable parts of medical device 3 times in the disinfectant.
5. Make sure that all surfaces are completely moistened with disinfectant solution.
6. Exposure time (5 minutes) or as per manufacturer's instruction.
7. Place medical devices in a tank of demineralized water for at least 1 minute.
8. Repeat step 7 two times with fresh demineralized water to remove the disinfectant solution completely.
9. Wipe with a lint free gauze and/or dry with medical compressed air.

### **Cleaning & Disinfection: Automated WD**

**Prior:** Do manual pre cleaning before the automated cleaning and thermal disinfection.

**Equipment:** Washer disinfecter in accordance with EN ISO 15883-1 with thermal program (temperature  $90-95^{\circ}\text{C}$ ), mildly alkaline cleaner, lint free gauze and or medical quality compressed air.

1. Place the medical device in a suitable tray or place them on the load carrier that all inner and outer surfaces will be cleaned and disinfected.
2. Closed the WD and start the program, the program parameters are shown in the table below.

| Program step   | Water           | Dosage   | Time   | Temperature  |
|----------------|-----------------|--|--|--|
| Pre-Rinse      | Cold            |  | 5 min  |  |
| Dosage Cleaner |                 | According to manufacturer's instructions (0.2% is validated) |  | According to manufacturer's instructions                     |
| Cleaning       | Deionized water |  | According to manufacturer's instructions (10 min is validated) | According to manufacturer's instructions (55°C is validated) |
| Rinse          | Deionized water |  | 2 min  |  |
| Disinfection   | Deionized water |  | Ao value $\geq 600$ (e.g. 1 min, 90°C)                         |  |
| Drying         |                 |  | 15 min   | Up to 120°C  |

- At the end of the program, remove the medical device.
- Check for the dryness if it is necessary wipe with lint free gauze and/or dry with medical compressed air.
- After removal from the WD check the device for cleanliness. if the dirt is still visible, clean the medical device manually. Afterwards the automated cleaning process must be carried out again.

### Maintenance, Inspection & Testing:

- All medical devices must be visually checked for cleanliness, dryness and damage (e.g., cracks, fractures, corrosion, mobility, pitting etc.) if necessary, using an illuminated magnifier (3-6 Dptr.)
- Damaged medical devices must be sorted out and not to be used again.
- These devices do not have an indefinite functional life. All medical devices are subject to a degree of wear and tear as a result of normal use.

### Sterilization:

Equipment: Steam sterilizer according to DIN EN 285 or DIN EN 13060 with type B process. Pre-vacuum process, 134°C and sterilization time at least 3 min (longer holding times are possible).

- Place the packaged medical device in sterilization chamber.
- Start the sterilization program.
- At the end of sterilization program remove the device and let it cool down.
- Check the package for damage or moisture penetration. Rejected packaging must be considered non-sterile. The product must be repackaged and sterilized.

### Sterilization in the EU/USA and other countries:

| Sterilizer type | Method  | Cycle Time (minimum time at temperature) | Temperature Set Point | Minimum Drying Time |
|-----------------|---------|--|-----------------------|---------------------|
| Pre-vacuum      | Wrapped | 3 minutes                                | 134°C (273°F)         | 15 minutes          |

- National Health Authorities in some regulated regions do not accept immediate use sterilization methods, e.g. in the EU Please review the appropriate guidelines, standards and National Health Authority guidelines when determining acceptable steam sterilization process parameters for use in each respective country.
- Immediate-use steam sterilization is only intended for individual devices and should only be














performed when approved by local policies. Immediate-use steam sterilization of devices is not recommended or supported. It is the sole responsibility of the user to validate immediate-use steam sterilization if performed.

7. Do not handle the device until they are thoroughly cooled.

### Storage & Handling:

1. Bipolar Forceps must be stored in a clean, cool and dry area.
2. Protect from mechanical damage & direct sun light. Handle with extreme care.

### Symbols:

|   |  |   |   |
|---|--|---|---|
|  | Caution: read instructions (warnings) carefully  |  | Keep away from sunlight                             |
|  | Keep in a cool, dry place                        |  | Date of manufacture                                 |
|  | Manufacturer                                     |  | Product code  |
|  | Lot number                                       |  | Authorized representative in the European community |
|  | Medical Device complies with Directive 93/42/EEC |  | Consult instructions for use                        |
|  | Temperature limit                                |  | Non-sterile   |
|  | Authorised representative in the United Kingdom  |   |   |

### GIMA WARRANTY TERMS

The Gima 12-month standard B2B warranty applies.