

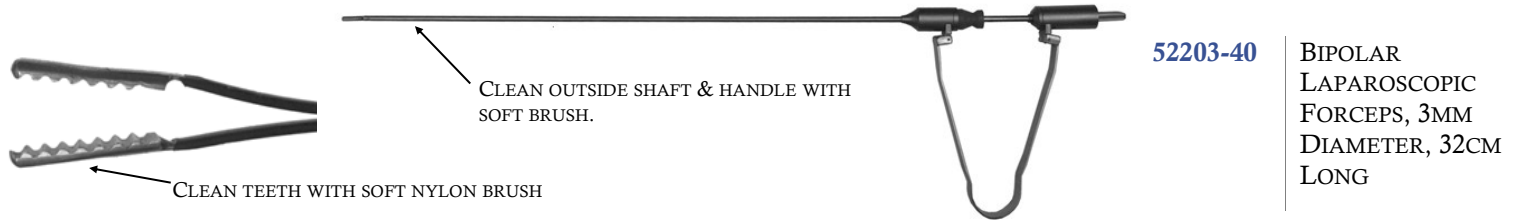
## 1-PIECE LAPAROSCOPIC BIPOLAR FORCEPS CLEANING AND STERILIZATION INSTRUCTIONS

### IMPORTANT:

THESE INSTRUMENTS ARE FOR MINIMAL INVASIVE SURGERY. THEY ARE NON-STERILE, REUSABLE.

ELMED, AS MANUFACTURER AND SELLER OF THE PRODUCT, ACCEPTS NO LIABILITY FOR INDIRECT DAMAGE OR PREPARATION, STERILIZATION OR MAINTENANCE.

INSTRUMENTS ARE ONLY TO BE USED AS DESIGNATED IN THEIR SPECIALIZED MEDICAL FIELDS BY THE RESPECTIVE TRAINED AND QUALIFIED PERSONNEL. THEY ARE NOT INTENDED TO BE USED ON THE CENTRAL CIRCULATORY OR CENTRAL NERVOUS SYSTEM.



### MAINTENANCE AND CARE:

EVERY INSTRUMENT MUST BE CLEANED AND STERILIZED BEFORE BEING USED FOR THE FIRST TIME AND AFTER EVERY SUBSEQUENT USE. APPROPRIATE CLEANING, INSPECTION AND MAINTENANCE HELP TO ENSURE THE SERVICEABILITY OF SURGICAL INSTRUMENTS AND PROLONG SERVICE LIFE.

CLEAN, INSPECT AND TEST ALL INSTRUMENTS THOROUGHLY, AND STERILIZE BEFORE USE.

CLEANING AND RINSING SHOULD BE DONE PROMPTLY AFTER EVERY USE. OTHERWISE, TISSUE PARTICLES OR DRIED SECRETIONS MAY ADHERE TO IT, WHICH MAY MAKE SUBSEQUENT CLEANING AND STERILIZATION DIFFICULT, IF NOT IMPOSSIBLE. INSTRUMENTS MUST BE ENTIRELY FREE OF ANY FOREIGN BODIES.

### HANDLING, STORAGE AND STERILIZATION:

EXTREME CARE MUST BE EXERCISED WHILE USING, TRANSPORTING, CLEANING, STERILIZING, AND STORING. DAMAGE TO THE FUNCTION AND SAFETY OF THE INSTRUMENT MAY OCCUR IF THE INSTRUMENT IS HANDLED ROUGHLY OR IMPROPERLY OR USED FOR SOMETHING OTHER THAN ITS INTENDED PURPOSE.

### CLEANING:

THE INSTRUMENT IS CLEANED THROUGH THE FLUSH PORT – USE THE APPROPRIATE CONNECTIONS; WE SUGGEST THE ELMED CLEANING GUN.

RINSE WITH DEIONIZED WATER TO REMOVE ANY DEBRIS. HAND-WASH THE COMPLETE OUTSIDE, HANDLE AND SHAFT USING NEUTRAL pH DETERGENT OR ENZYMATIC CLEANER\*<sup>1</sup> AND A SOFT BRUSH, BEING SURE TO FLUSH ALL LUMENS AND CHANNELS WITH SOLUTION. THOROUGHLY CLEAN THE OUTSIDE SHAFT USING A SOFT BRUSH\*<sup>2</sup> AND FLUSHING SOLUTION. AVOID THE USE OF STEEL WOOL, WIRE BRUSHES, AND/OR ABRASIVE DETERGENTS.

CLEAN\*<sup>3</sup> ENTIRE SURFACE OF **INSERT**, PAYING SPECIAL ATTENTION TO THE TIP AREA TO BE SURE ALL BLOOD AND DEBRIS IS REMOVED.

THOROUGHLY RINSE INSTRUMENT WITH DEIONIZED WATER AFTER CLEANING TO REMOVE ANY RESIDUAL DEBRIS OR CLEANING SOLUTION.

\*<sup>1</sup> RECOMMENDED MERITZ PLUS DISINFECTANT/DECONTAMINANT: ELMED ITEM NO. **52003-90**.

\*<sup>2</sup> RECOMMENDED ELMED CLEANING BRUSHES, ITEM NO. **52003-31 & 52003-42**.

\*<sup>3</sup> RECOMMENDED ELMED WATER JET CLEANING KIT, ITEM NO. **52003-80 & 52003-81**.

**IMPORTANT:** BEFORE EACH USAGE THE INSTRUMENTS MUST BE CHECKED IF THEY ARE CORRECTLY & FUNCTIONALLY ASSEMBLED.

MONOPOLAR INSTRUMENTS ARE ONLY TO BE ACTIVATED AT THE RESPECTIVE AREA WHERE THEY ARE TO BE USED. LARGER VERTICAL MOVEMENTS WITHIN THE TROCAR SLEEVE SHOULD NOT BE MADE IN AN ACTIVATED CONDITION. BEFORE EACH USAGE, INSULATED INSTRUMENTS SHOULD BE CHECKED ONCE AGAIN FOR EVENTUAL DAMAGE TO THE INSULATION AND IF SUCH IS FOUND, THEY SHOULD BE REPLACED. THE HF-CABLES USED MUST FIT PERFECTLY ONTO THE CONNECTOR. THE CONNECTOR CABLE MUST BE REMOVED WHEN CLEANING AND DISINFECTING THE INSTRUMENT.

**STERILIZATION:** THE INSTRUMENTS CAN BE STERILIZED FULLY ASSEMBLED (RECOMMENDED) OR IT CAN BE STERILIZED DISASSEMBLED AND THEN REASSEMBLED IN A STERILE FIELD IN THE OPERATING ROOM.



# 1-PIECE LAPAROSCOPIC BIPOLAR FORCEPS CLEANING AND STERILIZATION INSTRUCTIONS

**1. STEAM AUTOCLAVING:** WHEN USING THE WRAP METHOD, MAKE CERTAIN THAT ALL COMPLETE INSTRUMENTS AND ALL PARTS ARE INDIVIDUALLY WRAPPED OR SEALED IN A STERILE PACK. METAL OBJECTS SHOULD NEVER COME IN CONTACT WITH THE INSULATING MATERIAL OF FORCEPS AND HANDLES, OR WITH RF-CONNECTION CABLES. SUCH POINTS OF CONTACT WILL CAUSE SEVERE MELTING.

WE RECOMMEND THE FOLLOWING VALUES/PARAMETERS, BUT ALSO SUGGEST FOLLOWING THE MANUFACTURER'S STERILIZATION UNIT INSTRUCTIONS FOR STEAM STERILIZATION:

CYCLE	STERILIZING TEMPERATURE	STERILIZING TIME	DRYING TIME**
PREVACUUM	270°F (132°C)	5 MINUTES	30 MINUTES
GRAVITY	250°F (121°C)	30 MINUTES	30 MINUTES

**2. ETO STERILIZATION:** INSTRUMENTS CAN BE STERILIZED BY ETHYLENE OXIDE IN ANY STANDARD CYCLE. PRESSURE READING SHOULD NOT EXCEED 12 PSI. TEMPERATURE SHOULD NOT EXCEED 68.3°C (155°F).

IT IS RECOMMENDED TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR THE ETO STERILIZATION UNIT CONCERNING HUMIDITY, VACUUM, CYCLE TIME, GAS CONCENTRATION AND TEMPERATURE.

**3. STERRAD STERILIZATION PROCESS:** USES LOW TEMPERATURE PLASMA. ADHERE TO THE STERILIZATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER (E.G. JOHNSON & JOHNSON)

**4. STERIS STERILIZATION PROCESS:** STERILIZATION OF SURGICAL DEVICES BY THE **STERIS PROCESS** REQUIRES THAT THE LIQUID STERILANT MAKES CONTACT WITH ALL EXTERIOR AND INTERIOR SURFACES OF THE DEVICE. DURING THE STERILIZATION PROCESS THE DEVICES ARE RINSED WITH STERILE WATER, BUT NO DRYING CYCLE IS EMPLOYED. **SINCE ELECTROSURGICAL ACCESSORIES PERFORM INCONSISTENTLY WHEN MOISTURE IS PRESENT YOU SHOULD MAKE ABSOLUTELY SURE THAT THE INSTRUMENTS ARE DRY BEFORE YOU USE THEM.**

**5. FLASH AUTOCLAVING (FAST HEATING/COOLING CYCLE):** FLASH AUTOCLAVING WILL REDUCE THE USEFUL LIFE OF THE INSTRUMENT, PARTICULARLY WHEN IT IS CONSTRUCTED OF VARIOUS MATERIALS, ENCOMPASSING DIFFERENT EXPANSION RATES.

**CAUTION:** CONTINUED USE OF THIS PROCESS WILL CAUSE PREMATURE FAILURE OF INSTRUMENTS, ESPECIALLY THE INSULATION.

**6. CHEMICLAVING – SOAKING: NOT RECOMMENDED**

THIS IS DESTRUCTIVE TO THE INSULATING AND SILICONE MATERIALS OF ELECTROSURGICAL ACCESSORIES AND CAN CAUSE RAPID DETERIORATION AND FAILURE.

**\*\*IMPORTANT:** ADHERE TO PROPER DRYING CYCLE TO MAKE SURE THAT INSTRUMENTS ARE COMPLETELY DRY ON THE INSIDE (SAME APPLIES FOR CABLES). MOISTURE WILL PREVENT PROPER ELECTROSURGICAL CONDUCTIVITY.

**WARRANTY:** ALL **ELMED** INSTRUMENTS ARE WARRANTED AGAINST DEFECTS IN MATERIAL & WORKMANSHIP FOR 1 YEAR. ROUTINE RESHARPENING, REINSULATING, AND ADJUSTMENTS AS WELL AS REPAIR OF DAMAGED INSTRUMENTS IS AVAILABLE FOR A MODEST CHARGE.

ANY SERVICING OF **ELMED** INSTRUMENTS PERFORMED BY ANY SOURCE OTHER THAN **ELMED, INC.** VOIDS THIS WARRANTY.

**ELMED, INC.**, AS A MANUFACTURER AND SELLER OF THE PRODUCT, ACCEPTS NO LIABILITY FOR INDIRECT DAMAGE OR SUBSEQUENT DAMAGES THAT RESULT BY IMPROPER USAGE, IMPROPER HANDLING OR THROUGH IMPROPER PREPARATION, STERILIZATION OR MAINTENANCE.

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**WE DESIGN, MANUFACTURE, & SELL THE TOOLS THE SURGEONS USE**

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WE SUBSCRIBE TO COST  
CONTAINMENT AND  
PROTECTION OF THE  
ENVIRONMENT



THEREFORE, WE  
MANUFACTURE  
REUSABLE PRODUCTS  
FOR A CLEANER  
WORLD

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