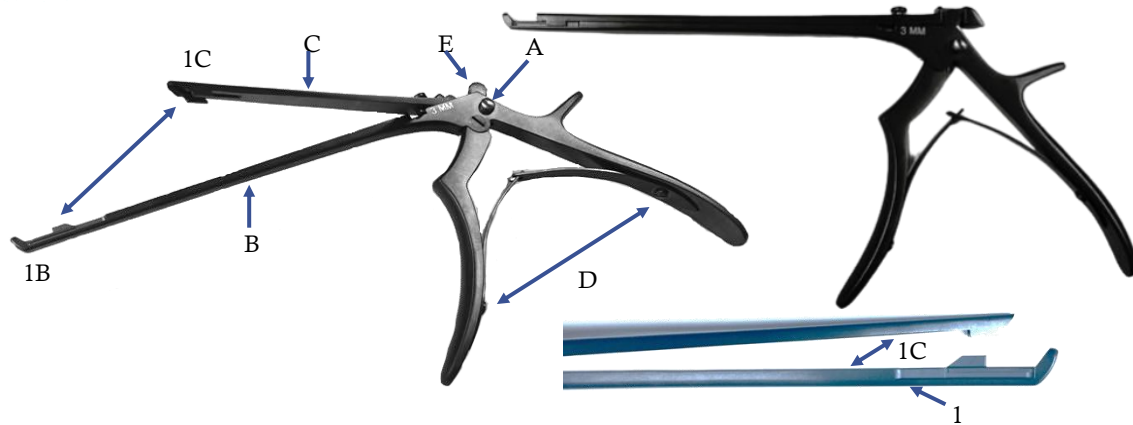




## DETACHABLE/TAKE-APART KERRISON RONGEURS CERAMIC COATED CLEANING & STERILIZATION INSTRUCTIONS



**CLEANING 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. CLEAN, INSPECT AND TEST ALL INSTRUMENTS THOROUGHLY, AND STERILIZE BEFORE USE. EFFECTIVE CLEANING AND MAINTENANCE WILL PROLONG SERVICE LIFE.

CLEANING AND RINSING SHOULD BE DONE PROMPTLY AFTER EVERY USE WITH THE INSTRUMENT DISASSEMBLED. 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.

**DISASSEMBLY:** DEPRESS BUTTON (A). PRESS TOGETHER HANDLE (D) WHILE HOLDING BUTTON (A) DEPRESSED AND RELEASE HANDLE. PULL UPPER SHAFT (C) TOWARD THE REAR AND DISENGAGE UPPER SHAFT (C) AT POINTS (1B) AND (1C) FROM LOWER SHAFT AND SWING UPPER SHAFT (C) COUNTER CLOCKWISE. CLEAN BOTH INNER SHAFT SURFACES OF (B) AND (C) AS NEEDED. CLEAN ALL EXTERNAL SURFACES OF INSTRUMENT AS NEEDED.

**REASSEMBLY:** AFTER CLEANING FOLLOWING THE RECOMMENDED PROCEDURE YOU CAN REASSEMBLE THE INSTRUMENT. LINE UP UPPER SHAFT (C) WITH LOWER SHAFT (B) AT HINGE POINT (1C) AND (1B). MAKE SURE UPPER SHAFT IS ENGAGED WITH LOWER SHAFT AT REAR NOTCH, CLOSE HANDLE (D) AND INSTRUMENT IS RE-ENGAGED.

### SUBJECT INSTRUMENT TO STERILIZATION

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

**DISINFECTING:** TO PROTECT MEDICAL PERSONNEL FROM CONTAMINATION DURING CLEANING, IMMERSE INSTRUMENTS COMPLETELY IN AN EPA APPROVED DISINFECTANT FOR APPROXIMATELY 10-20 MINUTES. ALWAYS CLOSELY FOLLOW MANUFACTURER'S RECOMMENDED DISINFECTING TIME AND SOLUTION PREPARATION INSTRUCTIONS, THEN RINSE AGAIN.

**CAUTION:** DISINFECTED INSTRUMENTS ARE NOT STERILE. NEVER EXPOSE STAINLESS STEEL INSTRUMENTS TO BLEACH OR OTHER CORROSIVE CHEMICALS TO DISINFECT. EXPOSURE TO BLEACH MAY RESULT IN INSTRUMENT PITTING AND WILL VOID ALL MANUFACTURER GUARANTEES.

**CLEANING:** ALL BLOOD, DRIED BODY FLUIDS AND TISSUE SHOULD BE COMPLETELY REMOVED FROM THE INSTRUMENTS PRIOR TO STERILIZATION. SEVERAL METHODS ARE AVAILABLE. INSTRUMENT MUST BE PARTIALLY DISASSEMBLED.

**MANUAL CLEANING:** IF ULTRASONIC CLEANING IS NOT AVAILABLE, OBSERVE THE FOLLOWING STEPS.

- USE STIFF NYLON CLEANING BRUSHES OR THE CLEANING PICK AS NEEDED. DO NOT USE STEEL WOOL OR WIRE BRUSHES EXCEPT SPECIALLY RECOMMENDED STAINLESS STEEL WIRE BRUSHES FOR INSTRUMENT SERRATED AREAS, BONE FILES, BURRS OR ON STAINED AREAS OF KNURLED HANDLES.
- USE ONLY NEUTRAL pH (7) DETERGENTS. IF NOT RINSED OFF PROPERLY LOW pH (ACIDIC - LESS 6pH) DETERGENTS BREAK DOWN THE STAINLESS PROTECTIVE SURFACE RESULTING IN PITTING AND/OR BLACK STAINING. HIGH pH (ALKALINE - MORE THAN 8 pH) CAN CAUSE BROWN STAINS (PHOSPHATE SURFACE DEPOSIT) WHICH CAN ALSO INTERFERE WITH THE SMOOTH OPERATION OF INSTRUMENTS. MOST BROWN STAINS ARE NOT RUST AND ARE EASILY REMOVED.
- BRUSH DELICATE INSTRUMENTS CAREFULLY, AND IF POSSIBLE, SEPARATE THEM FROM GENERAL INSTRUMENTS.
- MAKE SURE INSTRUMENT SURFACES ARE VISIBLY CLEAN AND FREE FROM STAINS AND TISSUE. THIS IS ALSO A GOOD TIME TO INSPECT EACH INSTRUMENT FOR PROPER FUNCTION AND CONDITION.

**SOAK:** AN ENZYMATIC CLEANER BATH (SOAK) A SOLUTION OF WATER AND NEUTRAL pH (7) DETERGENT ARE EFFECTIVE IN REMOVING ORGANIC MATERIAL FROM INSTRUMENTS. USE DISTILLED (DEMINERALIZED) WATER IF POSSIBLE. POTABLE WATER IS ACCEPTABLE. INSTRUMENTS SHOULD BE FULLY SUBMERGED FOR AT LEAST 10 MINUTES. DO NOT LET SHARPS (SCISSORS, KNIVES, OSTEOTOMES, ETC.) TOUCH EACH OTHER AND ALSO BE SURE DISSIMILAR METAL INSTRUMENTS ARE SEPARATED. RINSE INSTRUMENTS UNDER RUNNING WATER TO REMOVE SOLUTIONS. CHANGE SOLUTIONS FREQUENTLY.

**ULTRASONIC CLEANING:** MOST INSTRUMENT MANUFACTURERS RECOMMEND ULTRASONIC CLEANING AS THE MOST EFFECTIVE WAY TO CLEAN SURGICAL INSTRUMENTS, PARTICULARLY THOSE WITH HINGES, BOX LOCKS, AND OTHER MOVING PARTS.

- ALL INSTRUMENTS MUST BE FULLY SUBMERGED IN OPEN POSITION. USE DISTILLED (DEMINERALIZED) WATER IF POSSIBLE. MAKE SURE THAT SHARPS BLADES DO NOT TOUCH OTHER INSTRUMENTS TO PREVENT POSSIBLE SURFACE SCRATCHING AND ALSO BE SURE DISSIMILAR METAL INSTRUMENTS ARE SEPARATED.
- PROCESS INSTRUMENTS FOR FULL RECOMMENDED ULTRASONIC CLEANING CYCLE. CHANGE SOLUTION FREQUENTLY, OR AS OFTEN AS THE MANUFACTURER RECOMMENDS.
- RINSE INSTRUMENTS WITH WATER TO REMOVE THE CLEANING SOLUTION.

**AUTOMATIC WASHER STERILIZERS:** FOLLOW MANUFACTURERS' RECOMMENDATIONS BUT ENSURE INSTRUMENTS ARE LUBRICATED AFTER THE LAST RINSE CYCLE AND BEFORE THE STERILIZATION CYCLE.

**LUBRICATING:** APPROXIMATELY TWICE EVERY MONTH THE INSTRUMENT SHOULD BE IMMERSSED IN INSTRUMENT MILK TO KEEP ALL THE MOVING PARTS LUBRICATED AND PROTECT THE CERAMIC COATED STAINLESS STEEL.

### 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.

**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 TEMP.	STERILIZING TIME	DRYING TIME* 3
PRE VACUUM/WRAPPED	270° F (132° C)	4 MINUTES	30 MINUTES
GRAVITY/WRAPPED	250° F (121° C)	30 MINUTES	45 MINUTES
GRAVITY/WRAPPED	270° F (132° C)	30 MINUTES	45 MINUTES

### 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.

### STERRAD STERILIZATION PROCESS INCLUDING STERRAD NX

THE STERILIZATION PROCESS IS A MULTIPLE STERILIZATION PROCESS THAT UTILIZES A COMBINATION OF EXPOSURE TO HYDROGEN PEROXIDE VAPOR AND PLASMA TO AFFECT STERILIZATION. THE STERRAD NX STERILIZER CAN STERILIZE INSTRUMENTS WHICH HAVE DIFFUSION RESTRICTED SPACES, SUCH AS HINGED PORTIONS OF FORCEPS AND SCISSORS.

ADHERE TO THE STERILIZATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER. (ADVANCED STERILIZATION PRODUCTS A JOHNSON & JOHNSON COMPANY).

### FLASH AUTOCLAVING: (FAST HEATING/COOLING CYCLE)

FLASH STERILIZATION: MINIMUM EXPOSURE TIME 4 MINUTES AT 132°C. AVERAGE DRYING TIME 8 TO 15 MINUTES.

**IMPORTANT!** FLASH AUTOCLAVING WILL REDUCE THE USEFUL LIFE OF THE INSTRUMENT PARTICULARLY WHEN IT IS CONSTRUCTED OF VARIOUS MATERIALS, ENCOMPASSING DIFFERENT EXPANSION RATES

### CHEMICAL / COLD STERILIZATION

MOST CHEMICAL/COLD STERILIZATION SOLUTIONS RENDER INSTRUMENTS STERILE ONLY AFTER 10-HOUR IMMERSION. THIS PROLONGED CHEMICAL ACTION CAN BE MORE DETRIMENTAL THAN THE USUAL 20-MINUTE AUTOCLAVE CYCLE. IF THE INSTRUMENTS NEED TO BE "DISINFECTED" ONLY, A CHEMICAL/COLD STERILIZATION SOAK IS ACCEPTABLE, AS DISINFECTION WILL TAKE APPROXIMATELY 10 MINUTES OR MORE. CHECK MANUFACTURERS' SPECIFICATIONS. ALSO SEE OUR WARNING IN USING BLEACH.

### RECOMMENDED CLEANING ACCESSORIES



### CLEANERS DISINFECTANTS & LUBRICANTS

<b>52003-90</b>	MERITZ PLUS DISINFECTANT / DECONTAMINANT (1GAL.)
<b>9852-0001</b>	KERRISON CLEANING PICK

**52003-31**

6MM DIA. BRUSH FOR 5MM & 6MM CANNULAS, PKG OF 10

**52003-41**

NYLON BRISTLE BRUSH WITH HANDLE, PKG OF 5

### 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. 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.

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

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