

GOOSE-NECK FLEX ARM RETRACTOR SYSTEM

MAINTAINING, CLEANING & STERILIZATION

PLEASE NOTE

- ALL ELMED RETRACT-ROBOT SYSTEMS MUST BE ONLY USED FOR ITS INTENDED PURPOSE.
- THESE RETRACTOR SYSTEMS ARE ONLY FOR USE BY A QUALIFIED PHYSICIAN.
- THESE RETRACTOR SYSTEMS MUST BE INSPECTED PRIOR TO EACH USE TO MAKE CERTAIN THEY ARE IN PROPER WORKING ORDER.
- ALL ELMED RETRACT-ROBOT SYSTEM PARTS MUST BE STERILIZED BEFORE EACH USE.
- SELECTING THE PROPER TECHNIQUE WILL HELP TO PRESERVE THE FUNCTION AND EXTEND THE LIFE OF YOUR SURGICAL INSTRUMENTS.

CLEANING:

SOAK: AN ENZYMATIC CLEANER BATH (SOAK) A SOLUTION OF WATER AND NEUTRAL pH (7) DETERGENT ARE EFFECTIVE IN REMOVING ORGANIC MATERIAL FROM THE DEVICE. USE DISTILLED (DEMINERALIZED) WATER IF POSSIBLE. THE DEVICE SHOULD BE FULLY SUBMERGED FOR AT LEAST 10 MINUTES. RINSE DEVICE UNDER RUNNING WATER TO REMOVE SOLUTIONS. CHANGE SOLUTIONS FREQUENTLY.

ULTRASONIC CLEANING: THE DEVICE MUST BE FULLY SUBMERGED IN THE OPEN POSITION. USE DISTILLED (DEMINERALIZED) WATER IF POSSIBLE. PROCESS THE DEVICE FOR FULL RECOMMENDED ULTRASONIC CLEANING CYCLE. CHANGE SOLUTION FREQUENTLY, OR AS OFTEN AS THE MANUFACTURER RECOMMENDS. RINSE DEVICE WITH WATER TO REMOVE THE CLEANING SOLUTION.

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

MANUAL CLEANING: USE STIFF NYLON CLEANING BRUSHES. DO NOT USE STEEL WOOL OR WIRE BRUSHES. USE ONLY NEUTRAL pH (7) DETERGENTS. IF NOT RINSED OFF PROPERLY, LOW pH (ACIDIC - LESS THAN 6 pH) DETERGENTS BREAK DOWN THE STAINLESS PROTECTIVE SURFACE RESULTING IN PITTING AND/OR BLACK STAINING. HIGH pH DETERGENTS (ALKALINE - MORE THAN 8 pH) CAN CAUSE BROWN STAINS (PHOSPHATE SURFACE DEPOSIT) WHICH CAN ALSO INTERFERE WITH THE SMOOTH OPERATION OF THE DEVICE. MOST BROWN STAINS ARE NOT RUST AND ARE EASILY REMOVED. BRUSH THE DEVICE CAREFULLY. MAKE SURE THE SURFACES ARE VISIBLY CLEAN AND FREE FROM STAINS AND TISSUE. THIS IS ALSO A GOOD TIME TO INSPECT THE DEVICE FOR PROPER FUNCTION AND CONDITION.

APPROXIMATELY ONCE EVERY MONTH THE RETRACT-ROBOT SHOULD BE IMMERSSED IN INSTRUMENT MILK TO KEEP ALL THE MOVING PARTS LUBRICATED AND TO PROTECT THE STAINLESS STEEL COMPONENTS. AS AN ALTERNATE YOU CAN USE A "SPRAY LUBE" (ELMED PART NO. 52003-82) FOLLOW THE INSTRUCTIONS ON THE BOTTLE. ONCE OR TWICE A MONTH, PUT A FEW DROPS OF INSTRUMENT OIL (ELMED PART NO. 52003-40) ONTO THE THREAD OF 6A, 1A AND 1B. FROM TIME TO TIME (BETWEEN SIX MONTHS TO ONE YEAR IN CASE OF HEAVY USAGE) THE RETRACT-ROBOT SHOULD BE SUBJECTED TO PREVENTATIVE MAINTENANCE SERVICE. WE CAN PROVIDE THIS SERVICE TO YOU ON A ONE-DAY TURN-AROUND TIME BASIS FOR A NOMINAL CHARGE.

THE SERVICE IS RELATIVELY INEXPENSIVE AND SHOULD BE CONSIDERED SIMILAR TO THE COST OF MAINTAINING OTHER SOPHISTICATED INSTRUMENTS. IT WILL SAVE MONEY IN THE LONG RUN.

AUTOCLAVING METHODS

ETO STERILIZATION

WITH A PRESSURE READING NOT TO EXCEED 12 PSI, AND A TEMPERATURE NOT TO EXCEED 68.3°C (155°F), THE ELECTROSURGICAL

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

**IT IS IMPORTANT THAT THE LONGEST DRYING CYCLE POSSIBLE IS EMPLOYED, TO PREVENT BUILD UP OF MOISTURE INSIDE THE INSTRUMENT. IF THE CYCLE OF YOUR AUTOCLAVE ALLOWS A 45 MIN DRY TIME, WE RECOMMEND IT. CORROSION, PITTING OR INTERMITTENT OPERATION ARE USUAL SIGNS OF A MOISTURE INDUCED CORROSION PROBLEM.*

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.

COLD SOAKING: NOT RECOMMENDED

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).

SETTING UP THE GOOSE-NECK ARM

1. SELECT THE DESIRED POSITION OF THE GOOSE-NECK ALONG THE SIDE OF THE OPERATING TABLE.
2. THE AUTOCLAVABLE STERIL-CLAMP IS INSTALLED OVER THE STERILE DRAPE BY OPENING THE KNURLED KNOB ENOUGH SO THAT THE ADJUSTABLE JAWS OF THE CLAMP ARE WIDE ENOUGH TO ACCOMMODATE THE WIDTH OF THE ACCESSORY RAIL. MAKE SURE YOU MOUNT THE CLAMP WITH THE KNOB FACING DOWN. PLACE THE ADJUSTABLE JAW OVER THE DRAPED ACCESSORY RAIL. THEREAFTER, TURN THE KNURLED KNOB CLOCKWISE TO TIGHTEN THE STERIL- CLAMP ON THE ACCESSORY RAIL SO THAT IT IS COMPLETELY SECURE AND NO FURTHER MOVEMENT IS POSSIBLE.
3. INSERT THE ROUND VERTICAL SHAFT INTO THE ROUND OPENING ON THE TOP OF THE STERIL-CLAMP.
4. TIGHTEN THE SWIVEL LEVER HANDLE CLOCKWISE UNTIL THE MOUNTING SHAFT OF THE GOOSE-NECK IS SECURE AND WILL NOT MOVE FROM SIDE TO SIDE.
5. PLACE THE INSTRUMENT TO BE USED INTO THE OPENING OF THE GOOSE-NECK'S INSTRUMENT HOLDER AND TIGHTEN THE THUMB SCREW UNTIL THE INSTRUMENT IS SECURE AND WILL NOT MOVE FROM SIDE TO SIDE.
6. MAKING CERTAIN THAT THE MAIN SWIVEL HANDLE ON THE VERTICAL BAR IS NOT TIGHT, MOVE THE GOOSE-NECK ARM WITH THE INSTRUMENT IN PLACE TO THE DESIRED POSITION AND RETRACT TO THE NECESSARY TENSION BY PULLING BACK. WHEN THE DESIRED TENSION IS ACHIEVED TURN THE MAIN SWIVEL HANDLE CLOCKWISE UNTIL TIGHT. THE GOOSE-NECK WILL BE SUFFICIENTLY TIGHT WHEN THE INSTRUMENT DOES NOT SLIP OUT OF POSITION AS MANUAL TENSION IS RELEASED. DO NOT OVER TIGHTEN THE SWIVEL LEVER HANDLE.
7. TO RELEASE, REVERSE THE ABOVE PROCEDURE.

GOOSE-NECK RETRACTOR SYSTEM FEATURES:

- ALL THE COMPONENTS ARE MADE OF A HIGH-GRADE STAINLESS STEEL.
- THE COMPLETE SYSTEM, INCLUDING THE STERIL-CLAMP™, MAY BE FLASH AUTOCLAVED.
- THE SELF-RETAINING JOINTS ROTATE AND TWIST IN EVERY DESIRABLE POSITION.
- THE INSTRUMENT SHAFT FITS INTO TABLE ACCESSORY CLAMPS SUCH AS THOSE USED FOR STIRRUPS AND LEG HOLDERS, AS WELL AS ALL OF THE OTHER OVER-THE-DRAPE CLAMPS WITH AN OPENING OF 5/8".
- THE VERTICAL SHAFT (5/8" Ø) MAY BE LOWERED OR HEIGHTENED WITHIN THE CLAMP FOR FLEXIBLE HEIGHT ADJUSTMENT.
- TWO DIFFERENT MODELS WITH DIFFERENT INSTRUMENT HOLDERS ARE AVAILABLE.
- THEY ARE ECONOMICALLY PRICED.

THE ELMED GOOSE-NECK RETRACTOR SYSTEM IS ANOTHER QUALITY PRODUCT MANUFACTURED BY ELMED IN OUR FACILITY IN THE USA USING THE HIGHEST QUALITY OF STAINLESS STEEL MATERIAL AND WORKMANSHIP.

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

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WE SUBSCRIBE TO COST
CONTAINMENT AND
PROTECTION OF THE
ENVIRONMENT



MADE IN THE USA

THEREFORE, WE
MANUFACTURE
REUSABLE PRODUCTS
FOR A CLEANER
WORLD

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