



## Cardiac Surgery Specialists

### Universal Stabilizer Arm -Model II with T Clamp

**Catalog Number 401-152T**

**Non-Sterile**

Patent Pending

#### Product Description

Universal Stabilizer Arm Model II catalog number 401-152T is a reusable device with a 7" (18cm) flexible stainless steel arm (comprised of 17 Stainless Steel beads) with a universal mounting clamp at the proximal end for attachment to standard sternotomy retractors or other types of thoracic access devices. The distal end of the arm has a quick connection for easy mounting of reusable or disposable stabilization or retraction devices such as the ESTECH 401-230 OPVAC Synergy II Coronary Artery Stabilizer. Once the arm is positioned, a knob at the proximal end is tightened, making the arm rigid.

#### Use of Device

1. Verify Function of device by tightening flexible arm control knob fully and by visual inspection.  
Please note that it should take less than one turn to fully tighten arm once the slack has been removed. If more turns are necessary than the arm should be returned for refurbishment.
2. Attach accessory device such as ESTECH 401-230 OPVAC Synergy II Coronary Artery Stabilizer to flexible arm at distal quick connect by sliding sleeve of connection away from arm while inserting accessory device into connection. Detent in connecting shaft of accessory attachment allows attachment to fit into connection in correct orientation, rotate attachment while inserting into connection until shaft slides fully into connector. Return sleeve to original position to lock accessory device into connection. Check for secure connection. See *Figure 1*.
3. Attach stabilizer arm to sternotomy retractor or other access device with "T" mounting clamp. Tighten Screw Handle to affix clamp to retractor or access device. See *Figure 1*.
4. Position accessory device as required. Turn flexible arm control knob clockwise to secure position of arm. See *Figure 1*.

The FLEXIBLE ARM, which provides a wide range of positions for the accessory devices, must be used correctly to maximize its life. Follow these simple rules:

1. When making major adjustments in the positioning of the FLEXIBLE ARM, loosen the knob until the FLEXIBLE ARM becomes limp, reposition, and then tighten.
2. When making minor adjustments in the positioning of the FLEXIBLE ARM, loosen the adjustment knob slightly. Retighten knob after the adjustment has been made.

**CAUTION:** Forcing the FLEXIBLE ARM to move against its present tension will cause the cable in the FLEXIBLE ARM to wear and possibly break. After a period of time, there may be drifting in the handrest even though the FLEXIBLE ARM knob is made tight. The FLEXIBLE ARM should be refurbished on a regular basis, at least once per year.

**The arm should never be over tightened - a half turn once the arm is stable is enough to rigidify the arm.**

## INSPECTION

After every use the arm should be fully loosened and a visual inspection should be conducted between the first and second beads from the retractor clamp end. There should be no signs of wear or fraying of the cable. If some wear is observed return to ESTECH for refurbishment.

## CLEANING

Disassemble and scrub the instruments and parts thoroughly using a soft brush and mild detergent. Remove all traces of blood and debris. Make sure all movement parts are cleaned thoroughly to prevent debris from interfering with movement. **It is recommended that the instruments and parts be ultrasonically cleaned.**

**Note:** The FLEXIBLE ARM will withstand high alkaline detergents ( $\geq$  pH 10). However, use of such detergents may require more frequent refurbishment. Slight discoloration may occur. This will not affect the performance of the device.

## LUBRICATION

It is extremely important that moveable parts be properly lubricated to keep these parts functional. It is recommended that all components be immersed in a water-soluble lubricant.

## STERILIZATION

The instruments may be steam or gas sterilized. Refer to the sterilizer manufacturer's instructions for correct time, temperature and pressure settings. ESTECH recommends the following processes:

Pre-Vac, 4 vacuum pulses, instruments double wrapped	134 C (270 F)	4 Minutes
Flash Autoclave, unwrapped instruments (FOLLOW PROTOCOLS)	134 C (270 F)	$\geq$ 3 Minutes
Gravity Displacement Steam, wrapped instruments	134 C (270 F)	20 Minutes

## WARRANTY

ESTECH warrants that the instruments are free from defects in both materials and workmanship. Suitability for use of the instruments for any surgical procedure shall be determined by the user. ESTECH shall not be liable for incidental or consequential damages of any kind. The above warranties are in lieu of all other warranties either expressed or implied including any warranty of any merchantability or fitness for use.

## SERVICE OR REPAIR / TECHNICAL INFORMATION

Contact information for service or repair or to request technical information:

**ESTECH, Inc.**  
2603 Camino Ramon  
Suite 100  
San Ramon, CA 94583  
Phone: 925-866-7111  
Fax: 925-866-7117  
Email: [info@estechlics.com](mailto:info@estechlics.com)

European Authorized Representative:  
**Medical Partners BV**  
Groenendijk 39  
Lage Zwaluwe  
4926 RE Netherlands  
Phone: +31.168.48 3732  
Fax: +31.168.48 47 90

## RECOMMENDED RECONDITIONING

To allow for optimum performance of this product, it is recommended that this device be returned to the manufacturer at least 1 time yearly for reconditioning. When returning for repair or maintenance please contact ESTECH for an RMA number. **Heavy use of devices or use of high alkaline detergents may require more frequent reconditioning.**

