

TEDAN SURGICAL INNOVATIONS

STERILIZATION AND LUBRICATION VISUAL GUIDE

Welcome to the TeDan Surgical Innovations (TSI) Sterilization and Lubrication Guide.

This resource provides visual aids and practical tips for the care and maintenance of our most frequently inquired about products. Through detailed visual demonstrations, we will highlight the specific components that require your attention, helping you maintain the integrity and optimal performance of your surgical instruments.

Remember, while this guide serves as a valuable tool, it ***does not supersede the product Instructions for Use (IFUs)***, which are readily available on our website under the resources tab. By following this guide in conjunction with the IFUs, you can achieve the best care for your equipment.

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At TeDan Surgical Innovations (TSI), we design our products with meticulous detail and precision. To ensure their longevity and maintain their integrity, we recommend applying the same level of care. *This guide is meant to be a general visual guide that can be applicable to all of our arms, retractors, distractors, blade holders, ring clamps, and all other moving parts.*

Here are a few key points to keep in mind:

- Always work lubricant into any threads or moving parts
- Never leave any device with a threaded, screw mechanism, such as clamps or pivoting knobs in a fully closed position as this prevents adequate sterilization
- Ensure to back out each screw/knob and lubricate the threads (do not remove the screws or knobs, this is only meant to work the lubricant into the threads)

Following these guidelines will help keep your instruments in optimal condition.

STERILIZATION AND LUBRICATION VISUAL GUIDE

Adhere to TeDan Surgical
Innovations (TSI)
recommendations to help
maintain instrument integrity
and performance.

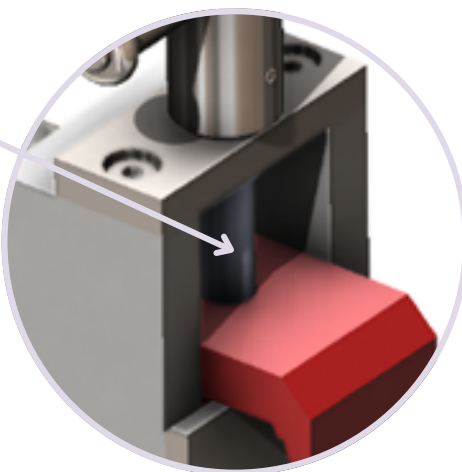
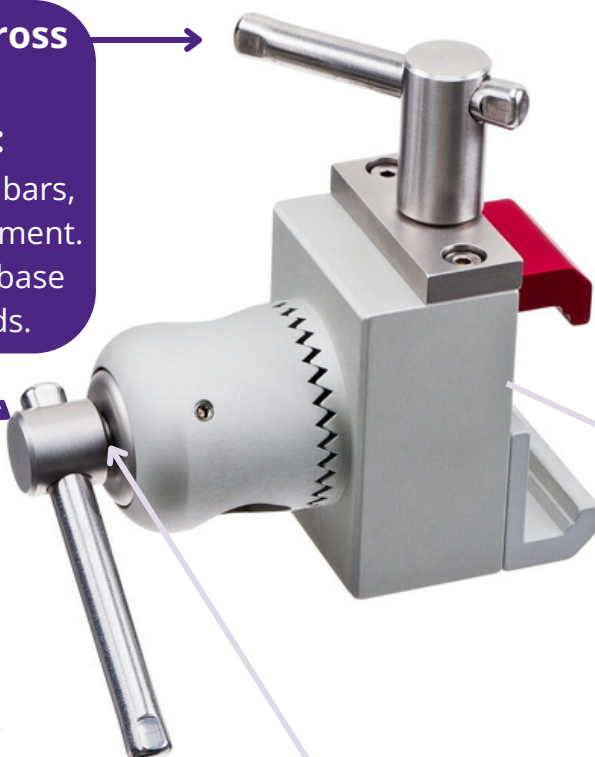
Phantom ML Table Clamps (Pictured below is ML-0021)

Loosen the Cross Bars and Lubricate:

Loosen the cross bars,
ensure free movement.
Lubricate at the base
and the threads.

Attention:

Apply lubricant behind the red
lip, ensure the red clamp will
move freely when the screw is
tightened and or loosened.



Attention:

Apply lubricant to the threaded screw mechanism that allows the crossbar to turn. For even distribution, thread the mechanism back and forth a few times (without fully removing the crossbar). This will help work the lubricant into the threads and ensure it spreads effectively throughout the screw mechanism.

STERILIZATION AND LUBRICATION VISUAL GUIDE

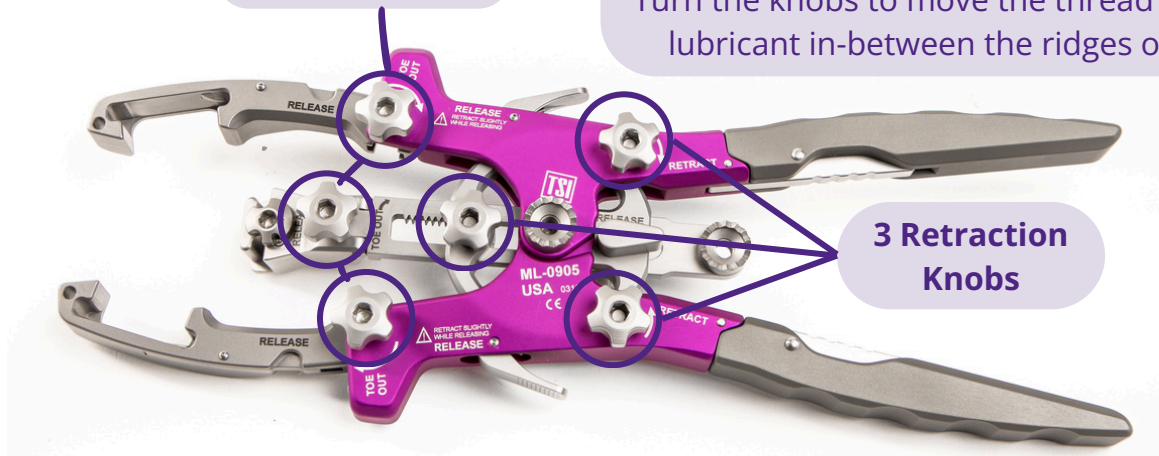
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Phantom XL3™ 3-Blade Retractor Frame (Pictured below is ML-0905)

3 Pivoting Knobs

Attention:

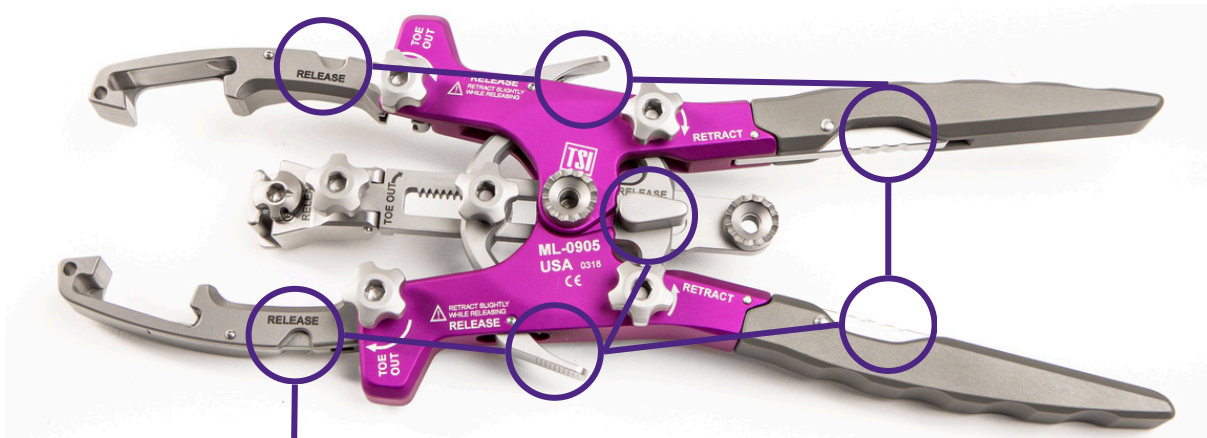
Turn the knobs to move the thread in and out, add
lubricant in-between the ridges of the thread.



3 Retraction Knobs

Lubricate:
All of the circled parts below require lubrication
for seamless movement.

Attention: Ensure the knobs
are not threaded all the way to
the hard stop, keep the knobs
two turns from the stop.



7 Release Levers

Attention:

Lubricate all 7 release levers by
releasing and retracting then working
the lubricant into the joints.

Knob and Bolt Loosening:
Proper loosening of knobs and bolts help
prevent friction or galling.

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Adhere to TeDan Surgical Innovations (TSI) recommendations to help maintain instrument integrity and performance.

Phantom AL Ring Clamp (Pictured below is AL-0103)



Loosen the Cross Bars and Lubricate the Bolt Thread:
Loosen the cross bars, ensure free movement. Lubricate at the base of the knob and in between the bolt threads. Keep the bolt in a free moving state for sterilization.

Attention:
Lubricate the thread between the base of the cross body and stop washer.



Phantom ML Articulating Arm (Pictured below is AL-0110)



Loosen the Knob
Turn the tightening knob counter clockwise to loosen the ball joint as this allows adequate sterilization.



Lubricate the Bolt
Align the bolt with the thread to avoid cross threading and work the lubricant into the bolt threads.

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Blade Holders

(Pictured below is AL-0105)



**Loosen the Thread with an AL-0106 ALIF Hex
Wrench and Lubricate:**

Do not sterilize with the screw in a tightened
position, it should move freely.

(Pictured below is AL-0102)

**Loosen the Thread with a LS-0451 T-Handle Pivot Control or
ML-0505 Hex Driver Tool and Lubricate:**

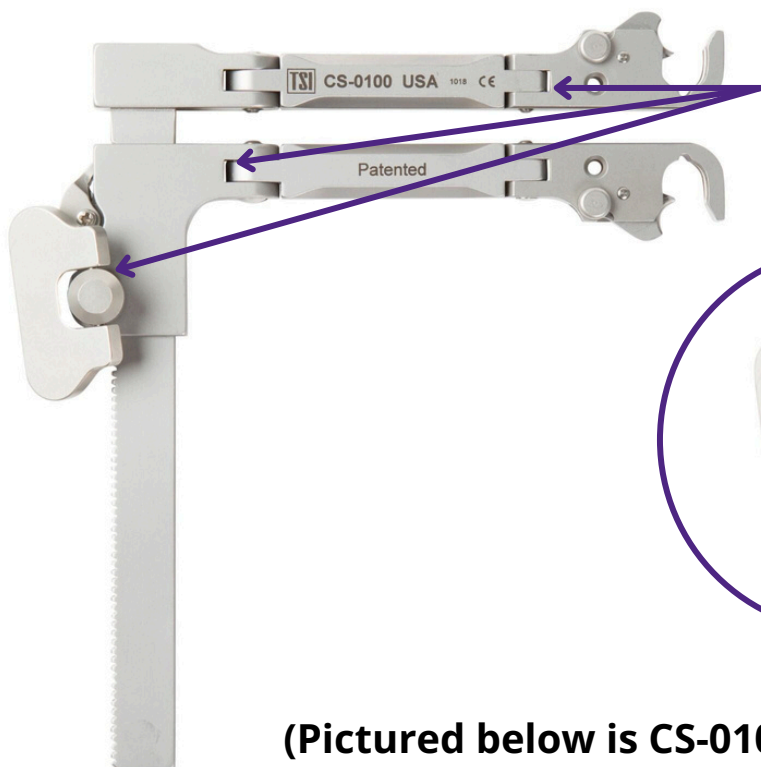
To ensure proper lubrication, turn the knob back and forth to distribute
the lubricant evenly. Avoid sterilizing the device in a fully opened or
closed position to prevent friction damage. Instead, set the knob to a
middle position before sterilizing.



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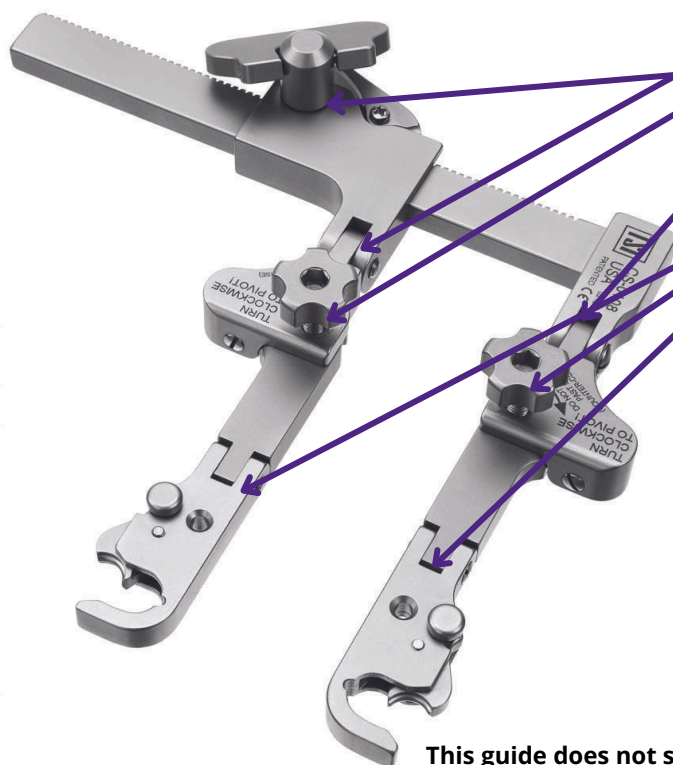
Retractors (Pictured below is CS-0100)



Tip:
Lubricate the base of the
knob and any moving
joints.



(Pictured below is CS-0108)



Tip:
Lubricate the base
of the thread and
any moving joints.



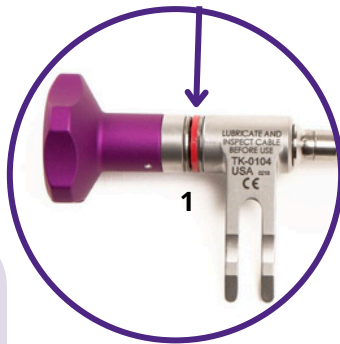
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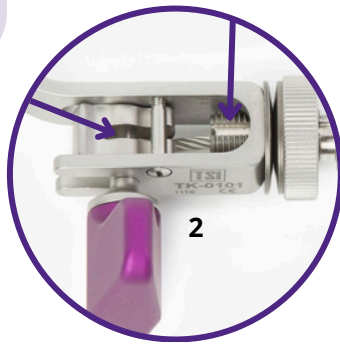
Knob and Cam Lock Loosening:

Prevent friction from occurring during sterilization by loosening the knob and inspection of the cable (image 1) as well as the cam lock (image 2).

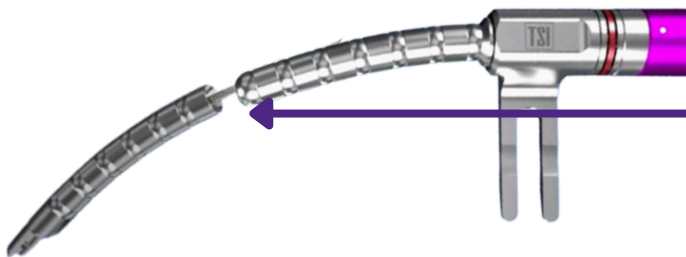
Tip:
Lubricate sections where the arrow indicates.



Phantom TK Adjustable Neuro Flex Arms (Pictured below is TK-0104)



Fukushima Neuro Flex Arms (Pictured below is TK-0101)



Tip:
Applicable to both flex arms, turn the tightening knob counterclockwise to loosen the internal cable to enable movement of the surgical arm beads to allow water or detergent to flow between each link prior to placing arm in sonicator

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As we conclude this visual guide on sterilization and lubrication, we emphasize that it is ***designed to enhance, not replace or supersede, the official IFU/User Guide: General Sterilization and Cleaning Instructions.***

Please visit [Tedansurgical.com](https://tedansurgical.com) and access the [IFU / User Guides](#) under the Resources tab.

We hope this guide has been a helpful adjunct in maintaining the excellence and reliability of your surgical instruments.



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