

INSTRUCTIONS FOR USE - Convertible Kerrison Rongeur

- ALWAYS USE TWO HANDS -

Closed Locked Position: Release to Clean

1. Squeeze handles together.
2. Push trigger down into open position.
3. Lift up on shaft to clean inside.
4. Remove any blood or tissue with soft brush and rinse.



Closing Procedure:

1. Align upper shaft flange into lower shaft groove while in open position.
2. Once aligned, squeeze handles together and push trigger up into locked position.
3. Test instrument for proper function after locking together.

Pre-Caution

- Check that screws and pivot pin on instruments are intact and check functionality after ultrasonic cleaning.
- Closely inspect rongeur at distal tip, where damage most often occurs, significantly reducing the instrument's ability to cut. If damage to cutting surface is discovered, schedule the instrument to be repaired immediately and discontinue use.
- Rongeurs are supplied non-sterile and must be cleaned, lubricated and sterilized prior to use.
- Carefully inspect all springs and screws for cracks and debris, and check functionality of instrument.

Precleaning

Remove gross debris from surgical instruments with a lap sponge and sterile water routinely during procedure to prevent drying on of blood and body fluids, etc.

For best results, and to prolong the life of the instrument, begin cleaning and sterilization process immediately after use.

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Manual Decontamination

1. Maintain moisture: immediately after surgical procedure, place instruments in an instrument tray/container and cover with a towel moistened with sterile water. Foam, spray or gel products, specifically intended for use with surgical instruments, are available to keep soil moist. Rinse foam, spray or gel products from instruments with distilled water prior to enzymatic soak.
2. Enzymatic soak: immerse fully opened and/or disassembled instruments in an enzymatic solution, specific for use with surgical instruments. Prepare solution and use per enzyme manufacturer's recommendations or instructions for correct dilution, temperature and soak time.
3. Rinse: Remove from enzymatic soak after time period recommended by enzymatic manufacturer and rinse thoroughly with lukewarm distilled water.
4. Cleaning instruments: Choose a cleaning solution appropriate for surgical instruments and follow manufacturer's instructions for use.
5. Rinse: Thoroughly rinse instruments with distilled water and wipe with a clean, soft cloth.
6. Ultrasonic Cleaning and Rinsing: Follow recommendations of ultrasonic manufacturer regarding cycle times, detergents, proper placement of instrument tray, and conditioning of cleaning solution.
7. FINAL RINSE with distilled pyrogen-free water (preferred).
8. Visual Inspection and Instrument Set Assembly: visually inspect instrument for cleanliness and ensure all parts are in proper working order.
9. Lubricate: the use of a water-soluble instrument lubricant that is compatible with pre-vacuum steam sterilization is recommended before instruments are sterilized.
10. Drying: Before instruments are wrapped for sterilization, they must be thoroughly dry. Prepare instrument sets for sterilization in a pre-vacuum steam sterilization.

Sterilization

Recommended steam sterilization parameters to achieve Sterility Assurance Level of 10⁻⁶:

Sterilizer: Pre-vacuum (wrapped)

Temperature: 132°C (270°F)

Exposure Time: 4 minutes

Minimum Drying Time: 20 minutes

Drying

If device is still wet after automated cleaning cycle, thoroughly dry the device using a clean lint-free cloth.

Table 1: Automated Cleaning cycle parameter

Cycle	Time	Minimum Temperature	Type of Detergent /Water
Pre-Cleaning	2 minutes	Cold, <45°C / 113°F	Tap water
Cleaning	10 minutes	Heated, 55°C / 131°F	Nedisher® Mediclean Forte, 0,5-2%
Rinse	2 minutes	Cold	Tap water
Terminal rinse	5 minutes	Heated, 90°C / 194°F	Demineralized water
Dry	25 minutes	Heated, >50°C / 122°F	N/A

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