

Laparoscopic Long Jaw Grasper User's Manual

Catalog numbers: LGF-104.007

1. Intended Use:

For grasping or occluding bowel in laparoscopic surgery.

2. Contraindications for Use:

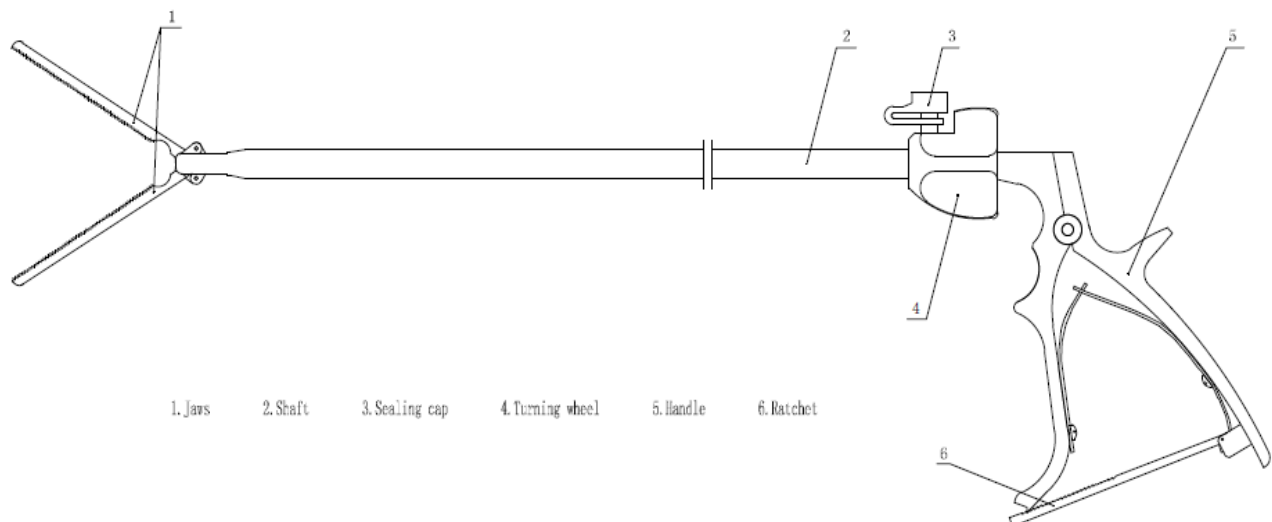
These instruments are not intended for use when laparoscopic techniques are contraindicated.

3. Products Description:

Working parameters: $\Phi 10 \times 330$ mm.

This bowel grasper is reusable and delivered unsterile. It is made from stainless steel 05Cr17Ni4Cu4Nb. The jaws are 7 mm long and heat-treated to a hardness of HRC40-48. The handle includes an integrated spring and ratchet locking mechanism. The interior channel of the working shaft can be flushed of fluid and debris via an irrigating port. A flexible cap seals the irrigating port. The surfaces of instruments are smooth, without sharp edges, and have excellent corrosion resistance.

4. Structural Schematic of Graspers:



1-2. Jaws of tip 2. Working shaft 3. Sealing cap on irrigating port 4. Turning wheel 5. Handle 6. Ratchet

5. Attention:

- 1) The device is delivered unsterile. To prevent infection, it must be cleaned and sterilized prior to use.
- 2) Keep the grasper clean when not in use.

- 3) Risk of injury to the patient: **the instrument is not insulated**. Avoid contact with active elements of devices using ultrasonic or electrical energy.
- 4) Risk of injury to the patient or user: damaged or in incomplete instruments or accessories may result in abnormal functioning. Instruments and accessories must be checked for completeness and damage. Ensure that they are in full working order prior to use.
- 5) Risk of infection via unsterilized instruments: the only acceptable form of sterilization is moist heat (steam) sterilization. No other sterilization process is valid.
- 6) Risk of injury to patient or user: instrument may only be used in accordance with standard medical practice.
- 7) Verify the compatibility of the instrument and accessories from different manufacturer before utilizing them together to avoid complications.
- 8) For use only by surgeons who have had adequate training in laparoscopic surgery.
- 9) Consult the medical literature relative to techniques, hazards, and contraindications of the operation prior to the performance of the laparoscopic procedure.

6. Instructions for Use:

- 1) Make sure the device has been properly sterilized prior to use.
- 2) Clean the tip before inserting through a cannula.
- 3) Compress the handle to close the jaws.
- 4) Observe the instrument’s tip during insertion into the abdominal cavity.
- 5) Insert in a safe direction using appropriate force to avoid injury to internal structures.
- 6) After entering through a cannula, release the ratchet lock to open the jaws of the instrument.
- 7) Rotate the tip by rotating the turning wheel.
- 8) Compress the handle to close the jaws and grasp tissue.
- 9) For bowel occlusion, compress only to the degree necessary to occlude the bowel lumen.

7. Flushing, Cleansing, Disinfection and Sterilization Recommendations:

- 1) Flush the channel of the working shaft via the irrigating port to remove fluid and debris.
- 2) Cleanse by ultrasonic cleaning method.
- 3) Disinfect with 2% alkaline glutaraldehyde as per the instructions of the disinfectant manufacturer.
- 4) Sterilize by moist heat (steam) sterilization. Parameters are listed below.

Sterilization Method	Product Category	Temperature	Minimum Time	Pressure
Moist Heat – Gravity Displacement Autoclave	Appliance	121 °C	30 min	102.9 kPa
Moist Heat – Pre-vacuum Process	Appliance	132-134 °C	4 min	205.8 kPa




8. Maintenance and Storage:

- 1) Instruments must be cleaned and dried immediately after an operation. Apply wax to prevent rust if they are not used for an extended period of time.
- 2) Instruments should be handled with care to prevent collision and dropping, and be stored and fixed separately in special boxes. Do not stack them together.
- 3) Store in clean controlled environment.
- 4) Storage temperature range: -20°C-50°C. Relative humidity range:10%-80%.

9. Useful Life Validity Period:

Greater than one year.

10. Symbol Description:

	Catalog Number
	Lot Number
	Manufacturer

11. Packaging and Label:

One piece in one polyethylene bag,
Corrugated shipping carton: 22 x 6 x 6”

12. After-sale Service Commitment:

Twelve-month warranty: if the product is damaged during delivery or fails during normal use, the product will be replaced free of charge. For repairing beyond the warranty period or for artificial damage, material and labor costs will be charged.



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