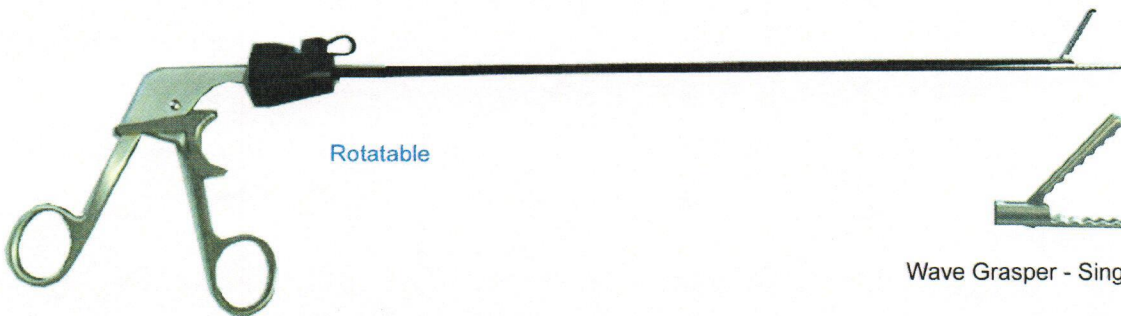
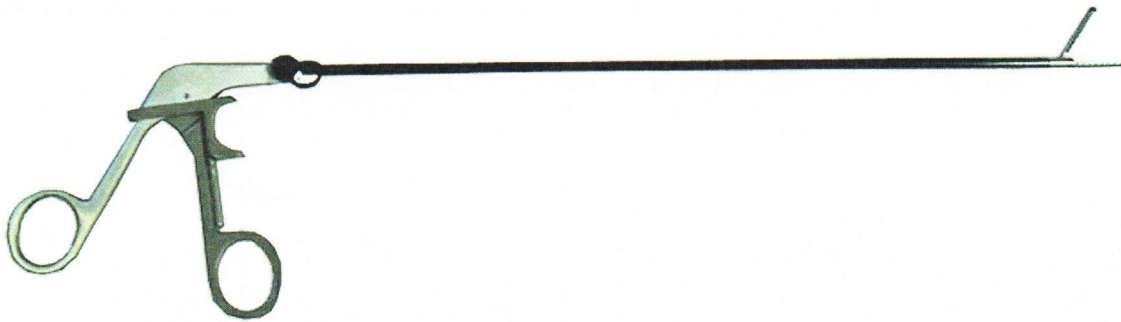
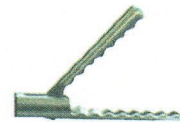


Slide "N" Lock Forceps®



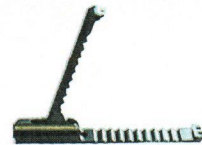
Rotatable



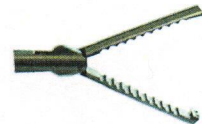
Wave Grasper - Single Action



Wave Grasper - Double Action

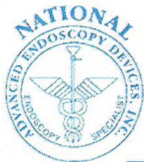


Retraction Grasper - Single Action



Retraction Grasper - Double Action

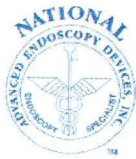
SNL100	Wave Grasper	Single Action	5mm x 35cm	
SNL110	Wave Grasper	Double Action	5mm x 35cm	
SNL120	Retraction Grasper	Single Action	5mm x 35cm	
SNL130	Retraction Grasper	Double Action	5mm x 35cm	
SNL140	Wave Grasper	Single Action	5mm x 35cm	Rotatable
SNL150	Wave Grasper	Double Action	5mm x 35cm	Rotatable
SNL160	Retraction Grasper	Single Action	5mm x 35cm	Rotatable
SNL170	Retraction Grasper	Double Action	5mm x 35cm	Rotatable
SNL180	Wave Grasper	Single Action	5mm x 45cm	
SNL190	Wave Grasper	Double Action	5mm x 45cm	
SNL200	Retraction Grasper	Single Action	5mm x 45cm	
SNL210	Retraction Grasper	Double Action	5mm x 45cm	
SNL220	Wave Grasper	Single Action	5mm x 45cm	Rotatable
SNL230	Wave Grasper	Double Action	5mm x 45cm	Rotatable
SNL240	Retraction Grasper	Single Action	5mm x 45cm	Rotatable
SNL250	Retraction Grasper	Double Action	5mm x 45cm	Rotatable



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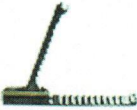
Slide "N" Lock Laparoscopic Forceps



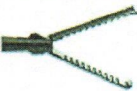
Wave Grasper - Single Action



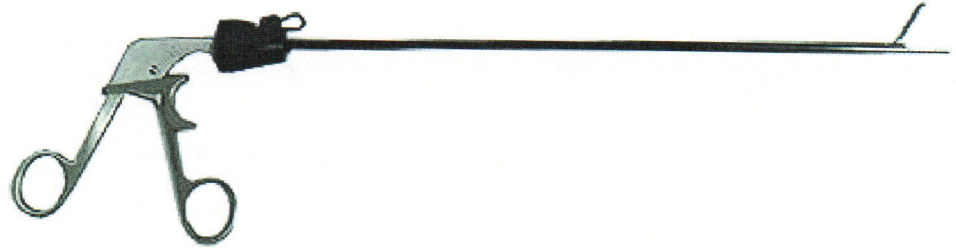
Wave Grasper - Double Action



Retraction Grasper - Single Action

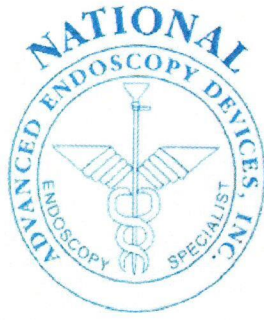


Retraction Grasper - Double Action



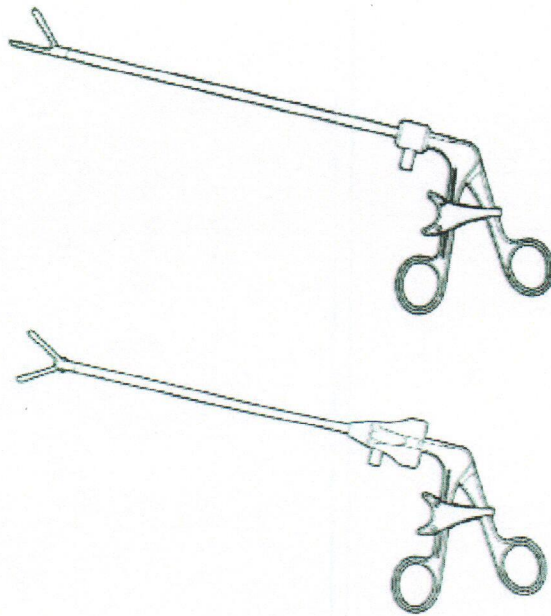
The modular design of Slide "N" Lock forceps make them compliant with today's instrument processing requirements. The familiar easy slide ratcheting system and specialized jaw designs provide surgeons with atraumatic grasping and secure retraction. Precision manufactured from German Stainless Steel, Slide "N" Lock forceps will provide years of service in your operating room.

SNL 140	Wave Grasper	Single Action	5mm X 35cm	Rotatable
SNL 150	Wave Grasper	Double Action	5mm X 35cm	Rotatable
SNL 160	Retraction Grasper	Single Action	5mm X 35cm	Rotatable
SNL 170	Retraction Grasper	Single Action	5mm X 35cm	Rotatable
SNL 220	Wave Grasper	Single Action	5mm X 45cm	Rotatable
SNL 230	Wave Grasper	Double Action	5mm X 45cm	Rotatable
SNL 240	Retraction Grasper	Single Action	5mm X 45cm	Rotatable
SNL 250	Retraction Grasper	Double Action	5mm X 45cm	Rotatable



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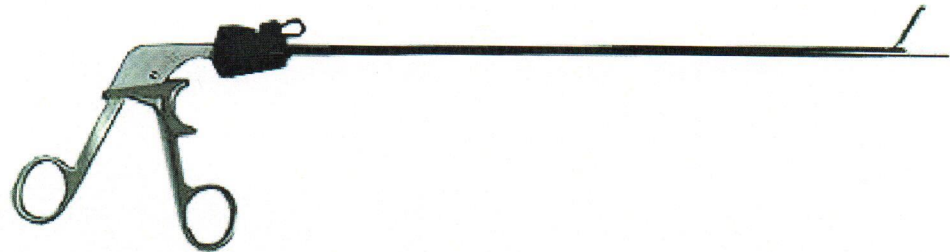
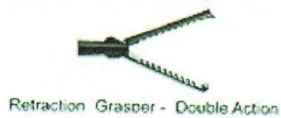
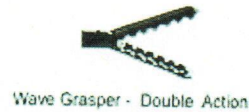
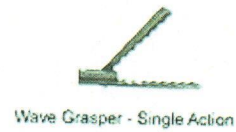
Slide "N" Lock Atraumatic Graspers



User Guide

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Slide "N" Lock Atraumatic Graspers



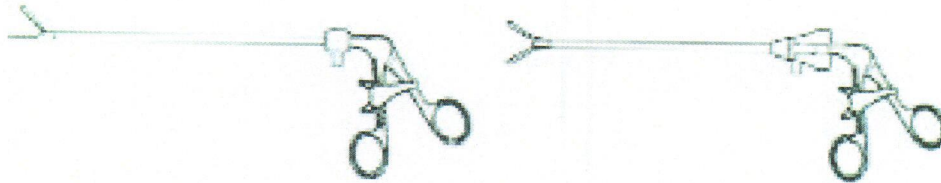
The modular design of Slide "N"Lock forceps make them compliant with today's instrument processing requirements. The familiar easy slide ratcheting system and specialized jaw designs provide surgeons with atraumatic grasping and secure retraction. Precision manufactured from German Stainless Steel, Slide "N" Lock forceps will provide years of service in your operating room.

Wave Grasper, 5mm, Single Action, 35cm	SNL100
Wave Grasper, 5mm, Double Action, 35cm	SNL110
Retraction Grasper, 5mm, Single Action, 35cm	SNL120
Retraction Grasper, 5mm, Double Action, 35cm	SNL130
Wave Grasper, 5mm, Single Action, 35cm, rotatable	SNL140
Wave Grasper, 5mm, Double Action, 35cm, rotatable	SNL150
Retraction Grasper, 5mm, Single Action, 35cm, rotatable	SNL160
Retraction Grasper, 5mm, Double Action, 35cm, rotatable	SNL170
Wave Grasper, 5mm, Single Action, 35cm, rotatable, detachable	SNL140D
Wave Grasper, 5mm, Double Action, 35cm, rotatable, detachable	SNL150D
Retraction Grasper, 5mm, Single Action, 35cm, rotatable, detachable	SNL160D
Retraction Grasper, 5mm, Double Action, 35cm, rotatable, detachable	SNL170D
Wave Grasper, 5mm, Single Action, 45cm	SNL180
Wave Grasper, 5mm, Double Action, 45cm	SNL190
Retraction Grasper, 5mm, Single Action, 45cm	SNL200
Retraction Grasper, 5mm, Double Action, 45cm	SNL210
Wave Grasper, 5mm, Single Action, 45cm, rotatable	SNL220
Wave Grasper, 5mm, Double Action, 45cm, rotatable	SNL230
Retraction Grasper, 5mm, Single Action, 45cm, rotatable	SNL240
Retraction Grasper, 5mm, Double Action, 45cm, rotatable	SNL250
Wave Grasper, 5mm, Single Action, 45cm, rotatable, detachable	SNL220D
Wave Grasper, 5mm, Double Action, 45cm, rotatable, detachable	SNL230D
Retraction Grasper, 5mm, Single Action, 45cm, rotatable, detachable	SNL240D
Retraction Grasper, 5mm, Double Action, 45cm, rotatable, detachable	SNL250D

Product Description/Intended Use

Slide "N" Lock Atraumatic Graspers are laparoscopic surgical manual instruments used to grasp, hold, and manipulate soft tissue, organs, organ areas, and other surgical materials during endoscopic procedures.

The Slide "N" Lock Graspers are available in two models:



Single action
(one moveable jaw)
Nonrotating handle
33cm
45cm

Double action
(two movable jaws)
Rotating Handle
33cm
45cm

Indications/Contraindications

For use in endoscopic surgical procedures through the cannula to perform grasping, retracting, and manipulating functions.

There are no known contraindications.

Warnings

1. Read the operating manual thoroughly and be familiar with its contents prior to using this device.
2. Carefully unpack the unit and check if any damage occurred during shipment.
3. Test the instrument function prior to use. If there is any sign of malfunction, the instrument should not be used and returned to AED for repair evaluation.
4. Do not bend the instrument, and avoid contacting instruments with metal objects as this may cause the instruments to break and leave pieces in the surgical field which may be difficult to remove.
5. Do not use if there are breaks, cracks, chips, scratches, or tears in the insulation on the shaft or in the instrument housing. This may cause unintended electro-surgical

burns and life-threatening complications. If damage has occurred, discontinue use and return the instrument for repair or replacement.

6. Do not use if there is excessive buildup of debris on the tip during use.
7. Federal law (United States of America) restricts this device to use by, or on order of a physician.

Cautions

1. Using excessive force to manipulate the instrument or its handles may cause the instrument jaw and/or instrument to break.
2. Do not apply hard rotation or "torquing" of the instrument with the jaw under load as this may cause the jaw to break.
3. Repair of an AED product by any agent other than AED may cause the instrument to fail and/or the jaw to break.

The warranty is void if any of these warnings or cautions are disregarded.

Reprocessing

The reprocessing instructions are provided in accordance with ISO 17664. While they have been validated by the manufacturer of the medical device, as being capable of preparing the device for re-use, it remains the responsibility of the processor to ensure that the reprocessing as actually performed using equipment, materials and personnel in the reprocessing facility, achieves the desired result. This normally requires validation and routine monitoring of the process.

Warnings

- This device must be cleaned and sterilized prior to the first use and after every subsequent use.
- Use only the sterilization cycles outlined in this document. Using unspecified sterilization cycles may damage the device or result in incomplete sterilization.
- Wear appropriate protective equipment gloves, eye protection, etc.
- Reprocessing has been validated only to the instructions provided herein. When using a sterilization tray or deviating from these instructions in any other way, it is the responsibility of the reprocessor to validate the new process/configuration.

Cautions

- Do not use brushes or pads with metal or abrasive tips during manual cleaning as permanent scoring or damage could result.
- Allow the instruments to air cool following steam sterilization. Rapid cooling or "quenching" the instruments in a liquid will damage the instrument and void the warranty.
- Flash sterilization is not a preferred method. Repeated Flash sterilization may break down the instrument insulation, compromising the overall safety and performance of the instrument. If time permits, use a wrapped sterilization method instead.

Limitations on Reprocessing

- Proper processing has a minimal effect on this device. End of life is normally determined by wear and damage due to use.
- Do not cross-sterilize the device. Using multiple sterilization methods may significantly reduce the performance of the device.
- Do not leave the device in solutions longer than necessary. This may accelerate normal product aging.
- Damage incurred by improper processing will not be covered by the warranty.

Instructions

Point of Use

- Wipe excess soil from the device using disposable paper towels.
- If an automated reprocessing method will be used, rinse any channels in the device with 50 mL of sterile distilled water immediately after use.

Containment and Transportation

- Reprocess the device as soon as reasonably practical following use.
- Transport the device in a tray to avoid damage.

Preparation for Cleaning

1. Prepare an enzymatic detergent according to the manufacturer's recommendations (one ounce per gallon of tap water at 35-40°C).
2. Wipe the entire device with the detergent, using a clean cloth.
3. Immerse the device in the detergent. Inject any inside regions of the device with 50 mL of the detergent solution to remove loose debris.
4. Soak the device in the detergent for at least 15 minutes.

Cleaning: Manual

1. Brush

- Thoroughly brush the exterior of the device with a soft-bristled brush, focusing on any mated or rough surfaces.
- Inject any lumen or mated surface a minimum of five times with at least 50 mL of the detergent.
- Brush any lumens a minimum of five times from each end, using an appropriate bottle brush.
- Brush any movable parts in their extreme open and closed positions.

2. Rinse

- Rinse the device with treated water at ambient temperature to remove all detergent residue. Flush any lumens or mated surfaces a minimum of five times. Once all detergent residues have been removed, continue to rinse for a minimum of 30 seconds.
- Drain excess water from the device and dry it using a clean cloth or pressurized air.
- Visually inspect the device for cleanliness, paying close attention to hard-to-reach areas. If visible soil remains, repeat steps 1 and 2.

3. Soak

- Prepare a non-enzymatic detergent, according to the manufacturer's recommendations of 0.25 ounces/gallon tap water at 35 - 40°C.
- Fully immerse the device and inject any lumens and mated surfaces with at least 50 mL of the detergent.
- Soak the device for a minimum of 15 minutes.

4. Brush

- Thoroughly brush the exterior of the device using a soft-bristled brush.
- Inject the prepared detergent into any cannulas, lumens, or mated surfaces a minimum of five times.
- Brush any lumens a minimum of five times from each end, using an appropriate bottle brush.
- Actuate the device, brushing around any movable parts in all extreme positions.

5. Rinse

- Thoroughly rinse the device with treated water until all detergent residue is removed. Flush any lumens or crevices five times. After the detergent residue is removed, continue rinsing for a minimum of 30 seconds.
- Drain the excess water from the device and dry it with a clean cloth or pressurized air.

Cleaning: Automated

1. Brush

- Brush both ends of any lumens a minimum of five times, using an appropriate bottle brush.

2. Rinse

- Rinse the device with treated water at ambient temperature until there is no visible detergent residue. Continue to rinse for a minimum of 30 seconds after all detergent residue has been removed.
- Place the device in the washer on an incline to facilitate drainage.

3. Automated wash

- Program the washer using the following parameters:

Phase	Recirculation Time	Water Temperature	Detergent Type
Pre-Wash	2 minutes	Cold	N/A
Enzyme Wash	2 minutes	Hot	Enzymatic Detergent (1 oz. /gallon)
Wash 1	2 minutes	Set Point (66°C) (151°F)	Regular Detergent (.25 oz./ gallon)
Rinse 1	2 minutes	Hot	N/A
Dry Phase	7 minutes	115°C (239°F)	N/A

- If necessary, use pressurized air to aid in drying. Visually inspect each device for cleanliness.

Disinfection (optional)

1. Disinfect the device by submerging it in a disinfection agent. Follow the disinfection agent manufacturer's recommended concentrations, temperatures, and exposure times. Acceptable disinfection agents contain:
 - 2.4% glutaraldehyde
2. Thoroughly rinse and flush all parts and lumens with running, demineralized water to remove the disinfectant.
3. Dry all parts with a lint-free towel immediately after rinsing.

Drying

- For automated drying, use the drying cycle provided with the washer/disinfector.
- For manual drying, use a lint-free cloth.
- Dry any lumens with compressed air.

Maintenance, Inspection, and Testing

- Inspect the device on a continual basis. If a problem is observed or suspected, the device should be returned for repair.
- Inspect all components for cleanliness. If fluid or tissue buildup is present, repeat the above cleaning and disinfection procedures.
- Inspect all jaws, ratchets, and cutting edges for damage.
- Ensure instrument jaws align properly and open and close completely.

Packaging

N/A

Sterilization

After performing the cleaning instructions specified above, perform one of the following sterilization cycles.

Steam

- These instructions were developed using the guidance from AAMI TIR 12, ISO 17665 and AAMI ST79 and AED recommends users observe these standards.
- The water used in the autoclave process must meet standards for clean steam per AAMI ST 79 Appendix M—Steam Quality requirements.
- Drying time depends on several variables, including: altitude, humidity, type of wrap, preconditioning, size of chamber, mass of load, material of load, and placement in

chamber. Users must verify that drying time set in their autoclave yields dry surgical equipment.

The following sterilization method has been validated.

Gravity Displacement - Wrapped
Parameters: 270°- 274° Fahrenheit
Sterilization time: 15 minutes
Dry Time: 30 minutes

Gravity Pre-Vacuum - Wrapped
Temperature: 270° Fahrenheit
Exposure Time: 4 minutes
Dry Time: 30 minutes

After sterilization and prior to opening the packaging, let the device cool at room temperature.

Accelerating the cooling process puts stress on the device, which can cause damage and shorten its working life.