

Endoscopic Surgical System
(SR-ENS-600)
Accessories Reprocessing Instructions



Medical Device



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 Beijing Surgerii Robotics Company Limited, 102, Floor 1, Building 7, Tiandilinfeng, No. 1
Yongtaizhuang North Road, Haidian District, Beijing 100192, China

 Surgerii Robotics (Netherlands) B.V., Herengracht 449A, 1017 BR, Amsterdam, Netherlands

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Safety Information

This document contains the following types of safety information.

 CAUTION	CAUTION symbol alerts reader to what needs attention when operating and using. Details of relevant scenarios are given in boxes similar to this box.
 WARNING	WARNING symbol alerts reader to a potentially hazardous situation that, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. Details of relevant scenarios are given in boxes similar to this box.
 HAZARD	HAZARD symbol alerts reader to a situation that, if not avoided, could result in death, serious injury, or serious damage to patient the equipment or other property. Details of relevant scenarios are given in boxes similar to this box.
 PROHIBITION	PROHIBITION symbol alerts reader to actions that are prohibited. Details of relevant scenarios are given in boxes similar to this box.

Chapter 1 Introduction

The instructions in this document contain the cleaning, disinfection and sterilization instructions and parameters recommended by Surgerii Robotics. These instructions apply to the SHURUI® accessories and parts only. These instructions contain essential information for reprocessing. Read these instructions in their entirety carefully before any reprocessing activities. If there are any questions or comments about any information in these instructions, or if a problem occurs while reprocessing that cannot be resolved, contact Surgerii Robotics (Netherlands) B.V.

Chapter 2 Precautions and Warnings

 WARNING	1) No modifications to this device are permitted. 2) Reprocessing or reusing single-use products may lead to diminished instrument performance, loss of functionality, or exposure to viral, bacterial, fungal, or prion pathogens. 3) Only products and equipment that have undergone validated reprocessing should be utilized. Ensure that only validated parameter settings and cycles are applied. The use of non-validated parameters or cycles can result in damage, ineffective cleaning, or inadequate sterilization of accessories. 4) Use only validated packing pouches for sterilization. The application of non-validated packing may cause damage or compromise the effectiveness of the sterilization process for accessories. 5) Devices must be handled, reprocessed, and operated exclusively by trained personnel. Insufficient training can lead to device damage or harm to patients and operators. 6) Please follow the validated cleaning process closely Failing to follow the validated cleaning process can result in incomplete cleaning and sterilization. 7) Exercise caution when handling chemicals and contaminated solutions, as contact with skin, inhalation, or ingestion can cause injury. 8) Always inspect devices for any defects or damage before use, after use, and following reprocessing. Neglecting to perform these inspections could result in patient harm and/or further device damage. 9) Exercise caution when handling devices with sharp points or cutting edges. Failing to exercise the cautions can result in injury. 10) The cleaning processes, cleaning agents and disinfectant outlined in these instructions have been validated by Surgerii Robotics. Using alternative cleaning methods, cleaning agents or disinfectant may result in incomplete reprocessing, potentially leading to patient harm and device damage.
 CAUTION	1) Exposure of the accessories and parts to chemical disinfectants should be maintained to the specific contact time recommended by the manufacturer to achieve the validated disinfection level specified in this document. Longer exposure could result in device damage. 2) Handle all devices with care to prevent mechanical shock or stress, as these can lead to device damage. 3) All hospital personnel working with contaminated or potentially contaminated devices should follow local guidelines. When handling or working with such devices, Personal Protective Equipment (PPE) must be worn. PPE includes gloves, gowns, masks, goggles or face shields, and shoe covers.

Chapter 3 Overview

3.1 Process Overview

Point-of-Use Preparation

1	Transport
---	-----------

Cleaning, Disinfection and Drying

Manual Cleaning			
	Group 1	Group 2	Group 3
1	Prepare Cleaning Solution	Prepare Cleaning Solution	Prepare Cleaning Solution
2	Soak	Soak	Soak
3	Ultrasonic Cleaning	Brush	Brush
4	Rinse	Rinse	Ultrasonic Cleaning
5	Chemical Disinfection	Chemical Disinfection	Spray
6	Drying	Drying	Rinse
7	Inspect	Inspect	Drying
8	Transport	Transport	Inspect
9	-	-	Transport

Automated Cleaning Using Washer Disinfector			Automated Cleaning Using MAG-120I	
1	Manual Pre-Cleaning		1	Automated Cleaning Using MAG-120I
	1.1	Prepare Cleaning Solution	2	Chemical Disinfection
	1.2	Soak	3	Drying
	1.3	Brush	4	Inspect
	1.4	Ultrasonic Cleaning	5	Transport
	1.5	Spray	-	
	1.6	Rinse		
2	Automated Cleaning and Thermal Disinfection Using Washer Disinfector			
3	Inspection with Drying as Required			
4	Transport			

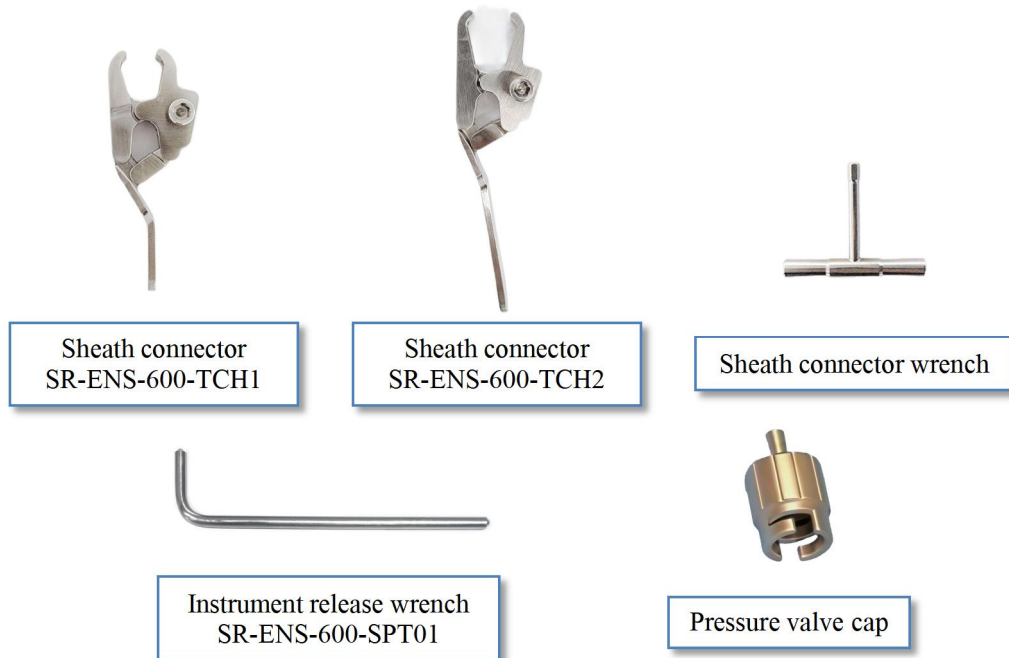
Sterilization

1	Final Inspect
2	Pack
3	Sterilize
4	Store

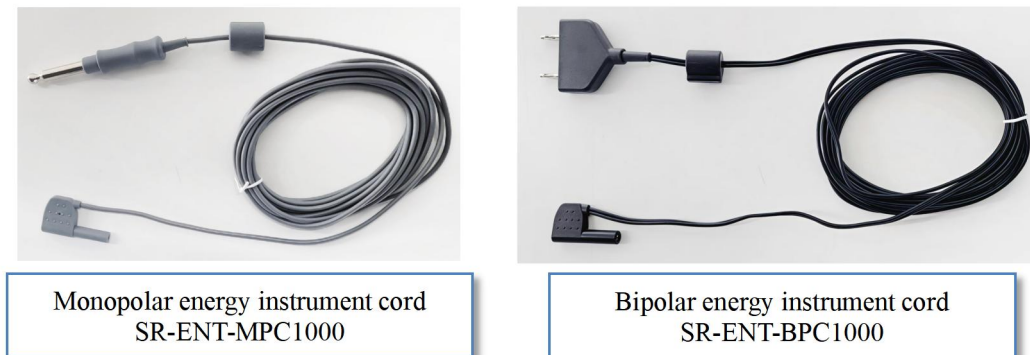
3.2 Accessories and Parts Classification

The accessories and parts are organized into three categories.

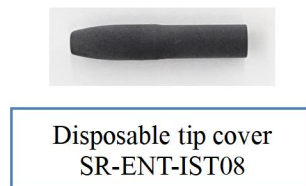
Group 1 includes the sheath connector (includes wrench), instrument release wrench, and the pressure valve cap.



Group 2 includes the monopolar energy instrument cord and the bipolar energy instrument cord.



Group 3 includes the disposable tip cover.



3.3 Applicable Accessories and Parts

These instructions are applicable to the following accessories and parts.

Item	Model
Monopolar energy instrument cord	SR-ENT-MPC1000
Bipolar energy instrument cord	SR-ENT-BPC1000
Sheath connector (includes wrench)	SR-ENS-600-TCH1
	SR-ENS-600-TCH2
Instrument release wrench	SR-ENS-600-SPT01
Pressure valve cap	Component of the surgical instruments or 3D endoscope
Disposable tip cover	SR-ENT-IST08

3.4 Reprocessing Limits

Item	Reprocessing Limit
Monopolar energy instrument cord	Same as the service life, as specified in the User Manual
Bipolar energy instrument cord	Same as the service life, as specified in the User Manual
Sheath connector (includes wrench)	Not Applicable
Instrument release wrench	Not Applicable
Pressure valve cap	Corresponds to the service life of the surgical instrument or 3D endoscope, as specified in the User Manual
Disposable tip cover	1 time, it should be reprocessed before its first use

Chapter 4 Reprocessing

The following models and corresponding usage methods of the cleaning agents in manual cleaning and pre-cleaning have been validated:

Cleaning Agent	Concentration	Temperature
Metrex MetriZyme™	1:128	20°C to 40°C
Steris Prolystica® 2x Concentrate Enzymatic Presoak and Cleaner	1:1000	20°C to 40°C
DR.WEIGERT neodisher®MediClean forte	1:50 to 1:200	20°C to 40°C

The following tools are used for protection and support during reprocessing.

Basket	SR-WDBK-1-1
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Basket

4.1 Point-of-Use Preparation

1	Transport
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See the following sections for step-by-step instructions using the following materials:

- A proper basket, box, or bag for protective transportation

4.1.1 Transport

 WARNING	1) The transportation shall be completed within 60 minutes.
---	---

Transport the items for cleaning and sterilization.

4.2 Manual Cleaning, Group 1

1	Prepare Cleaning Solution
2	Soak
3	Ultrasonic Cleaning
4	Rinse
5	Chemical Disinfection
6	Drying
7	Inspect
8	Transport

See the following sections for step-by-step instructions using the following materials:

- pH-neutral to mildly alkaline enzymatic solution (pH 7-11)
- A container capable of fully accommodating the items to be cleaned
- Ultrasonic cleaning machine
- A proper basket, box, or bag for protective transportation
- Cleaning basket
- Purified water
- Spray gun
- Disinfectant
- MAG-120I Automated cleaning machine
- Clean dry air
- 4X magnifying glass

4.2.1 Prepare Cleaning Solution

 WARNING	1) Be careful when handling chemicals and contaminated solutions, as skin contact, inhalation or ingestion may cause injury.
 CAUTION	1) Prepare and use the cleaning solution according to the instructions of enzyme cleaner, including temperature and concentration.

Prepare a sufficient amount of pH-neutral to mildly alkaline multi-enzyme solution (pH 7-11) in an appropriate container sufficient to completely immerse the entire items.

4.2.2 Soak

	Completely immerse the items in the cleaning solution for no less than 5 minutes.
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4.2.3 Ultrasonic Cleaning

	Completely immerse the items into the ultrasonic cleaning machine containing the cleaning solution.
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NOTE: Use ultrasonic cleaning with a power setting of no less than 14W/L and ensure that the ultrasonic cleaning time is no less than 10 minutes. The cleaning temperature should be set according to the cleaning solution being used.

4.2.4 Rinse

	Rinse the items under purified water at room temperature for no less than 1 minute.
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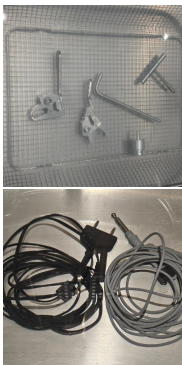
NOTE: Ensure that there are no visible residues or solution on the surface.

4.2.5 Chemical Disinfection

 WARNING	1) Chemical disinfection is not a substitute for cleaning or sterilization. 2) Check with the hospital's policy and regional guidelines to determine if chemical disinfection is needed. If chemical disinfection is not needed, proceed to the 'Dry' step.
 CAUTION	1) After disinfection, always rinse the items. Failure to rinse may expose patients to disinfectant chemicals, which may lead to patient harm.

NOTE:

- Follow the manufacturer's instructions for the preparation and use of disinfectants, including temperature and concentration.
- High level disinfection of the items has been validated using a compound peroxyacetic acid surface chemical disinfectant.

	Completely immerse the items in the disinfectant. Follow the disinfectant manufacturer's instructions for preparation and use.
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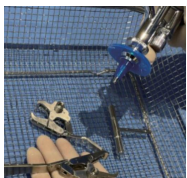
	Rinse the items under purified water at room temperature for no less than 1 minute.
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4.2.6 Drying (Manual / Automated)

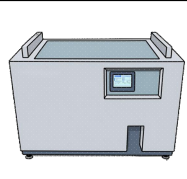
According to the actual operating environment conditions, either manual drying or automated drying may be selected.

 CAUTION	1) After drying, the surface must be free of moisture, otherwise the low-temperature plasma sterilization process will be interrupted.
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4.2.6.1 Manual Drying

	Thoroughly air-dry all items that there is no visible water stain on the surfaces or in any corner.
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4.2.6.2 Automated Drying Using MAG-120I

	Use the drying function of the automated cleaning machine. Follow the reprocessing instructions of the cleaning machine manufacturer.
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For the information of validated machines, drying parameters, load capacity and method of item placement, please refer to Appendix A "MAG-120I Automated Cleaning Machine".

4.2.7 Inspect

	Under a 4x magnifying glass, inspect for soil. If soil is present, repeat the entire cleaning process.
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NOTE: If the items still do not meet the standards after repeated cleaning, please contact Surgerii Robotics.

4.2.8 Transport

Transport the items for sterilization. During transportation, please carefully use a proper basket, box, or bag to protect from damaging.

4.3 Manual Cleaning, Group 2

1	Prepare Cleaning Solution
2	Soak
3	Brush
4	Rinse
5	Chemical Disinfection
6	Drying
7	Inspect
8	Transport

See the following sections for step-by-step instructions using the following materials:

- pH-neutral to mildly alkaline enzymatic solution (pH 7-11)
- A container capable of fully accommodating the items to be cleaned
- A proper basket, box, or bag for protective transportation
- Soft nylon brush
- Purified water
- Spray gun
- Disinfectant
- Clean dry air
- MAG-120I Automated cleaning machine
- 4X magnifying glass

4.3.1 Prepare Cleaning Solution

Please refer to Section 4.2.1 "Prepare Cleaning Solution" and follow the provided instructions.

4.3.2 Soak



Completely immerse the cords in the cleaning solution for no less than 5 minutes.

4.3.3 Brush



CAUTION

- 1) Only use a soft nylon brush for cleaning. Clean with metal brushes or abrasive materials may cause damage to the device.



Use a soft nylon brush to scrub the cords for no less than 1 minute in the cleaning solution used during the soaking process.

4.3.4 Rinse



Rinse the cords under purified water at room temperature for no less than 1 minute.

NOTE: Ensure that there are no visible residues or solution on the surface.

4.3.5 Chemical Disinfection

Please refer to Section 4.2.5 "Chemical Disinfection" and follow the provided instructions.

4.3.6 Drying (Manual / Automated)

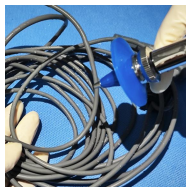
According to the actual operating environment conditions, either manual drying or automated drying may be selected.



CAUTION

- 1) After drying, the surface must be free of moisture, otherwise the low-temperature plasma sterilization process will be interrupted.

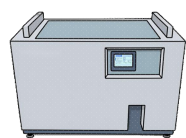
4.3.6.1 Manual Drying



Thoroughly air-dry the cords that there is no visible water stain on the surfaces or in any corner.

NOTE: To ensure thorough drying of the monopolar energy instrument cord and the bipolar energy instrument cord, it is recommended to use a spray gun equipped with a nozzle of 1 mm inner diameter (or an 18-gauge needle) to dry the internal cavity of the cord connector.

4.3.6.2 Automated Drying Using MAG-120I



Use the drying function of the automated cleaning machine. Follow the reprocessing instructions of the cleaning machine manufacturer.

For the information of validated machines, drying parameters, load capacity and

method of item placement, please refer to Appendix A "MAG-120I Automated Cleaning Machine".

4.3.7 Inspect

Please refer to Section 4.2.7 "Inspect" and follow the provided instructions.

4.3.8 Transport

Please refer to Section 4.2.8 "Transport" and follow the provided instructions.

4.4 Manual Cleaning, Group 3

1	Prepare Cleaning Solution
2	Soak
3	Brush
4	Ultrasonic Cleaning
5	Spray
6	Rinse
7	Drying
8	Inspect
9	Transport

See the following sections for step-by-step instructions using the following materials:

- pH-neutral to mildly alkaline enzymatic solution (pH 7-11)
- A container capable of fully accommodating the items to be cleaned
- A proper basket, box, or bag for protective transportation
- Soft nylon brush
- Ultrasonic cleaning machine
- Purified water
- Spray gun
- Clean dry air
- MAG-120I Automated cleaning machine
- 4X magnifying glass

4.4.1 Prepare Cleaning Solution

Please refer to Section 4.2.1 "Prepare Cleaning Solution" and follow the provided instructions.

4.4.2 Soak

Please refer to Section 4.2.2 "Soak" and follow the provided instructions.

4.4.3 Brush

 CAUTION	1) Only use a soft nylon brush for cleaning. Clean with metal brushes or abrasive materials may cause damage to the device.
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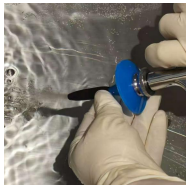
	Use a soft nylon brush to scrub the tip cover for no less than 1 minute in the cleaning solution used during the soaking process.
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4.4.4 Ultrasonic Cleaning

Please refer to Section 4.2.3 "Ultrasonic Cleaning" and follow the provided

instructions.

4.4.5 Spray



Completely immerse the tip cover in room temperature tap water. Use a spray gun (pressure: 0.30 to 0.35 Mpa) to spray the entire tip cover underwater for no less than 1 minute.

4.4.6 Rinse

Please refer to Section 4.2.4 "Rinse" and follow the provided instructions.

4.4.7 Drying (Manual / Automated)

Please refer to Section 4.2.6 "Drying (Manual / Automated)" and follow the provided instructions.

4.4.8 Inspect

Please refer to Section 4.2.7 "Inspect" and follow the provided instructions.

4.4.9 Transport

Please refer to Section 4.2.8 "Transport" and follow the provided instructions.

4.5 Automated Cleaning Using Washer Disinfector

1	Manual Pre-Cleaning	
	1.1	Prepare Cleaning Solution
	1.2	Soak
	1.3	Brush
	1.4	Ultrasonic Cleaning
	1.5	Spray
	1.6	Rinse
2	Automated Cleaning and Thermal Disinfection Using Washer Disinfector	
3	Inspection with Drying as Required	
4	Transport	

See the following sections for step-by-step instructions using the following materials:

- pH-neutral to mildly alkaline enzymatic solution (pH 7-11)
- A container capable of fully accommodating the items to be cleaned
- Spray gun
- Soft nylon brush
- Ultrasonic cleaning machine
- A proper basket, box, or bag for protective transportation
- Purified water
- Clean dry air
- Washer disinfectant
- 4X magnifying glass

4.5.1 Manual Pre-Cleaning

4.5.1.1 Prepare Cleaning Solution

Please refer to Section 4.2.1 "Prepare Cleaning Solution" and follow the provided instructions.

4.5.1.2 Soak

Please refer to Section 4.2.2 "Soak" and Section 4.3.2 "Soak", and follow the provided instructions.

4.5.1.3 Brush

Please refer to Section 4.3.3 "Brush" and Section 4.4.3 "Brush", and follow the provided instructions.

4.5.1.4 Ultrasonic Cleaning

Only items in Group 1 and Group 3 should undergo ultrasonic cleaning as part of the pre-cleaning procedure. Please refer to Section 4.2.3 "Ultrasonic Cleaning" and follow the provided instructions.

4.5.1.5 Spray

Only items in Group 3 should undergo spraying as part of the pre-cleaning procedure. Please refer to Section 4.4.5 "Spray" and follow the provided instructions.

4.5.1.6 Rinse

Please refer to Section 4.2.4 "Rinse" and Section 4.3.4 "Rinse", and follow the provided instructions.

4.5.2 Automated Cleaning and Thermal Disinfection Using Washer Disinfector

 WARNING	1) Disinfection is not a substitute for cleaning or sterilization. 2) Check with the hospital's policy and regional guidelines to determine if disinfection is needed.
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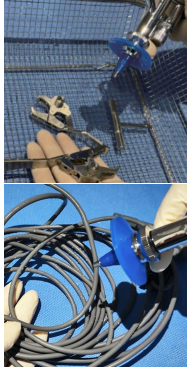
NOTE:

- Refer to Appendix B "Washer Disinfector" to find validated washer disinfector cycle parameters. An example diagram illustrating item placement within the washer-disinfector is also provided in Appendix B "Washer Disinfector".
- Disinfection may be performed as required by hospital policy and regional guidelines.
- Thermal disinfection should be done in accordance with ISO 15883-2.
- Each washer-disinfector provides its own manufacturer-specified drying program (see ISO 15883-1). Follow the drying instructions of the washer disinfector manufacturer.

	Securely load the items into the washer disinfector, using the basket as needed. For an example of item placement, refer to the diagram in Appendix B "Washer Disinfector." Set parameters and run the washer disinfector cycle. The cycle should include the parameters shown in Appendix B "Washer Disinfector". Perform disinfection per hospital policy and regional guidelines. Follow the instructions of the washer disinfector manufacturer.
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4.5.3 Inspection with Drying as Required

 CAUTION	1) After drying, the surface of the cleaned items must be free of moisture, otherwise the low-temperature plasma sterilization process will be interrupted.
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	Under a 4x magnifying glass, inspect for soil. If soil is present, repeat the entire cleaning process. If the items still do not meet the standards after repeated cleaning, please contact Surgerii Robotics.
	Inspect the cleaned items for any residual moisture. If present, thoroughly air-dry all items that there is no visible water stain on the surfaces or in any corner.

NOTE: To ensure thorough drying of the monopolar energy instrument cord and the bipolar energy instrument cord, it is recommended to use a spray gun equipped with a nozzle of 1 mm inner diameter (or an 18-gauge needle) to dry the internal cavity of the cord connector.

4.5.4 Transport

Please refer to Section 4.2.8 "Transport" and follow the provided instructions.

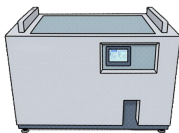
4.6 Automated Cleaning Using MAG-120I

1	Automated Cleaning Using MAG-120I
2	Chemical Disinfection
3	Drying
4	Inspect
5	Transport

See the following sections for step-by-step instructions using the following materials:

- A proper basket, box, or bag for protective transportation
- A container capable of fully accommodating the items to be cleaned
- Purified water
- Disinfectant
- Spray gun
- Clean dry air
- MAG-120I Automated cleaning machine
- 4X magnifying glass

4.6.1 Automated Cleaning

	Follow the reprocessing instructions of the cleaning machine manufacturer.
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For validated cleaning machines, detergents, load capacity, and parameters please refer to Appendix A "MAG-120I Automated Cleaning Machine".

4.6.2 Chemical Disinfection

Please refer to Section 4.2.5 "Chemical Disinfection" and follow the provided instructions.

4.6.3 Drying (Manual / Automated)

Please refer to Section 4.2.6 "Drying (Manual / Automated)" and Section 4.3.6 "Drying (Manual / Automated)", and follow the provided instructions.

4.6.4 Inspect

Please refer to Section 4.2.7 "Inspect" and follow the provided instructions.

4.6.5 Transport

Please refer to Section 4.2.8 "Transport" and follow the provided instructions.

4.7 Sterilization

1	Final Inspect
2	Pack
3	Sterilize
4	Store

See the following sections for step-by-step instructions using the following materials:

- Pouches for packing
- Non-woven wrapping material
- Chemical monitoring indicator card, biological indicator, label, sterilization indicator tape
- Sterilizer

4.7.1 Final Inspect

	Under a 4x magnifying glass, inspect for soil. If soil is present, repeat the entire cleaning process. Check if the sheath connectors work normally, and inspect the surface of the disposable tip covers for any cracks. Inspect the cord cover for any signs of damage. If any issues is found, please contact Surgerii Robotics.
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4.7.2 Pack

 WARNING	1) Only use validated pouches and non-woven wrapping material for packing. Using materials that have not been validated could result in damaging or ineffective sterilization.
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	If sterilization pouches are used, ensuring that the quantity in each pouch is not excessive to the point of squeezing the contents. If non-woven wrapping material is used, select an appropriately sized non-woven sheet and double-wrap the items.
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According to the relevant regulations and guidelines of the hospital, place chemical indicator cards, biological indicators, labels, and other items in the corresponding positions.

4.7.3 Sterilize

 WARNING	1) Only use validated reprocessing products and equipment. Only use the validated parameter settings and cycles. Parameter settings or cycles that have not been validated could result in damaging, ineffective cleaning, or ineffective sterilization.
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Put the packed items into the hydrogen peroxide low temperature plasma sterilizer. Items should be placed without squeezing and stacking. Refer to the sterilizer manufacturers' instructions for loading methods, proper use of the sterilizer and recommendations for sterilization.

Validated Sterilizer	Validated Cycle	Sterilization Parameters*
STERIS® V-PRO max 2	Non Lumen	● Vacuum setpoint (factory setting): 1.0 Torr ● STERIS Hydrogen Peroxide Sterilant (VAPROX HC) concentration: 59% ● Chamber temperature during sterilization: 48.5°C - 51.5°C (119°F - 125°F) ● Cycle time: approx 28 minutes
STEELCO PL130	FLEX	● Vacuum setpoint (factory setting): 0.8 hPa ● Cartridge: liquid solution of concentrated hydrogen peroxide (58%) ● Chamber temperature during sterilization: 50°C - 55°C ● Cycle time: 37 minutes
STERRAD 100NX	FLEX	● Vacuum setpoint (factory setting): 500 mTorr ● Cassette: 58% hydrogen peroxide ● Chamber temperature during sterilization: 50°C (47°C - 56°C) ● Cycle time: 42 minutes
*Note: The sterilization parameters are all originated from the instructions for use of the sterilizer. For more details, please refer to the instructions for use of the sterilizer.		

The validated maximum load capacity per sterilization cycle is as follows:

Sterilizer	Item	Quantity
STERIS® V-PRO max 2 STEELCO PL130 STERRAD 100NX	Surgical instrument or 3D endoscope	4
	Disposable tip cover	4
	Monopolar energy instrument cord or Bipolar energy instrument cord	4
	Sheath connector	4
	Instrument release wrench	1

4.7.4 Store

Store sterilized items under appropriate conditions as specified in the Endoscopic Surgical System User Manual.

Appendix A MAG-120I Automated Cleaning Machine

Validated Cleaning Machine		
Manufacturer	Model	Compatible Detergent
Marge	MAG-120I	Choose either one: ● Metrex MetriZyme™ ● Steris Prolystica® 2x Concentrate Enzymatic Presoak and Cleaner ● DR.WEIGERT neodisher®MediClean forte

Cleaning Parameters for Marge MAG-120I				
Items		Metrex MetriZyme™	Steris Prolystica® 2x Concentrate Enzymatic Presoak and Cleaner	DR.WEIGERT neodisher®MediClean forte
Pre-wash	Temperature	Room temperature	Room temperature	Room temperature
	Time	Not less than 60s	Not less than 60s	Not less than 60s
Enzyme wash (spray)	Temperature	20°C - 40°C	20°C - 55°C	35°C - 55°C
	Wash time	Not less than 180s	Not less than 180s	Not less than 180s
	Enzyme dosing time	68s - 272s	35s	175s
	Alkali dosing time	0s	0s	0s
Ultrasonic cleaning	1 st ultrasonic time	Not less than 300s	Not less than 300s	Not less than 300s
	2 nd ultrasonic time	0s	0s	0s
	3 rd ultrasonic time	0s	0s	0s
	Enzyme dosing time	0s	0s	0s
	Alkali dosing time	0s	0s	0s
Rinse	Rinse time	Not less than 60s	Not less than 60s	Not less than 60s
	Temperature	Room temperature	Room temperature	Room temperature
	Number of rinse cycles	3 times	2 times	2 times

Drying Parameters for Marge MAG-120I		
Rinse	Rinse time	Not less than 60s
	Temperature	Room temperature
	Number of rinse cycles	1 time
Drying	Drying time	Not less than 5400s
	Drying temperature	58°C - 60°C
	Cooling time	Not less than 60s

Validated Maximum Load Capacity per Cleaning or Drying cycle			
Model	Item	Quantity	Place
Marge MAG-120I	3D endoscope	2	Upper basket
	Monopolar energy instrument cord or Bipolar energy instrument cord	4	
	Surgical instrument cleaning cage or Endoscope cleaning cage	8	

	Surgical instrument	6	Lower basket
	Disposable tip cover	17	
	Sheath connector	5	
	Instrument release wrench	1	

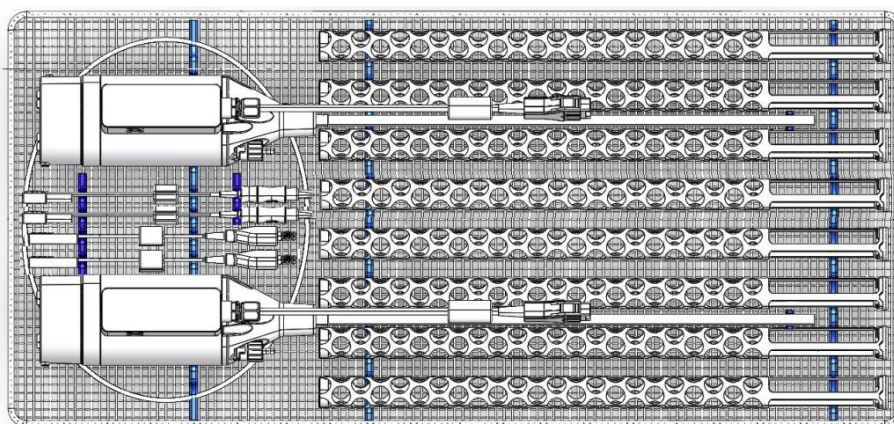


Diagram of item placement in Marge MAG-120I (upper basket)

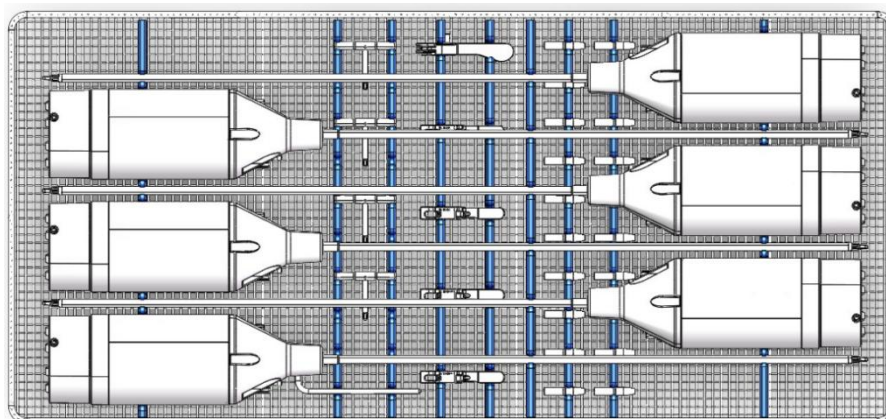


Diagram of item placement in Marge MAG-120I (lower basket)

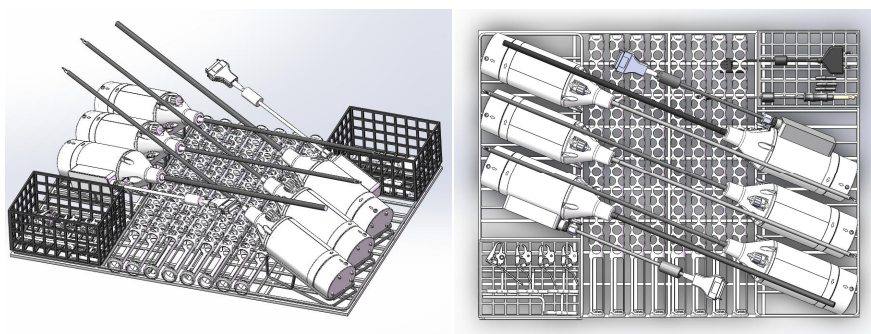
Appendix B Washer Disinfector

NOTE:

- Use only a washer disinfector that has been validated for efficacy in accordance with ISO 15883-1 and ISO 15883-2.
- Follow the instructions provided by the washer disinfector manufacturer and that of the process-chemistry manufacturer.
- The washer disinfector features a thermal disinfection cycle that follows cleaning. The thermal disinfection process complies with national regulatory requirements for the requisite A₀-value, as specified in ISO 15883-1. An A₀-value of 3000 is recommended.

Typical Washer Disinfector Parameters		
Stage of cycle	Parameters	Comments
Pre-wash	4 minutes with cold water	-
Wash	10 minutes detergent wash at 45°C using a 0.5% concentration of DR.WEIGERT neodisher MediClean forte	Use a detergent concentration and temperature range recommended by the detergent manufacturer Use tap water*
Rinse	4 minutes with water	Use DI water
Thermal Disinfection	Up to 93°C with a duration of 5 minutes	Use DI water
Drying	Up to 90°C with a duration of 20 minutes	-

* Tap water: Of drinking water quality or above.



Example diagram illustrating item placement in a washer-disinfector