



EW Series

Automated
endoscope
reprocessors



Miele

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Customization. Innovation. Excellence.

Driven by customer needs

Steelco is a leading infection control solution provider, supplying the healthcare, laboratory research and pharma sectors. Active in over 100 countries, Steelco has equipped numerous world renowned hospitals and counts among its customers household names in the laboratory, pharmaceutical and industrial sectors.

Driven by customer feedback, Steelco develops, manufactures and supplies solutions that maximize infection control, safety, optimize processes and minimize costs. Already a leader in innovation in areas such as automation, the integration within the Miele organization has provided additional boost in technological development.

Steelco provides technical service and user training courses at the Steelco Academy as well as at customer sites.

Our optional remote diagnostics capabilities and worldwide team of factory trained engineers ensure that you receive the service support you need to cost effectively maximize the uptime of your equipment.



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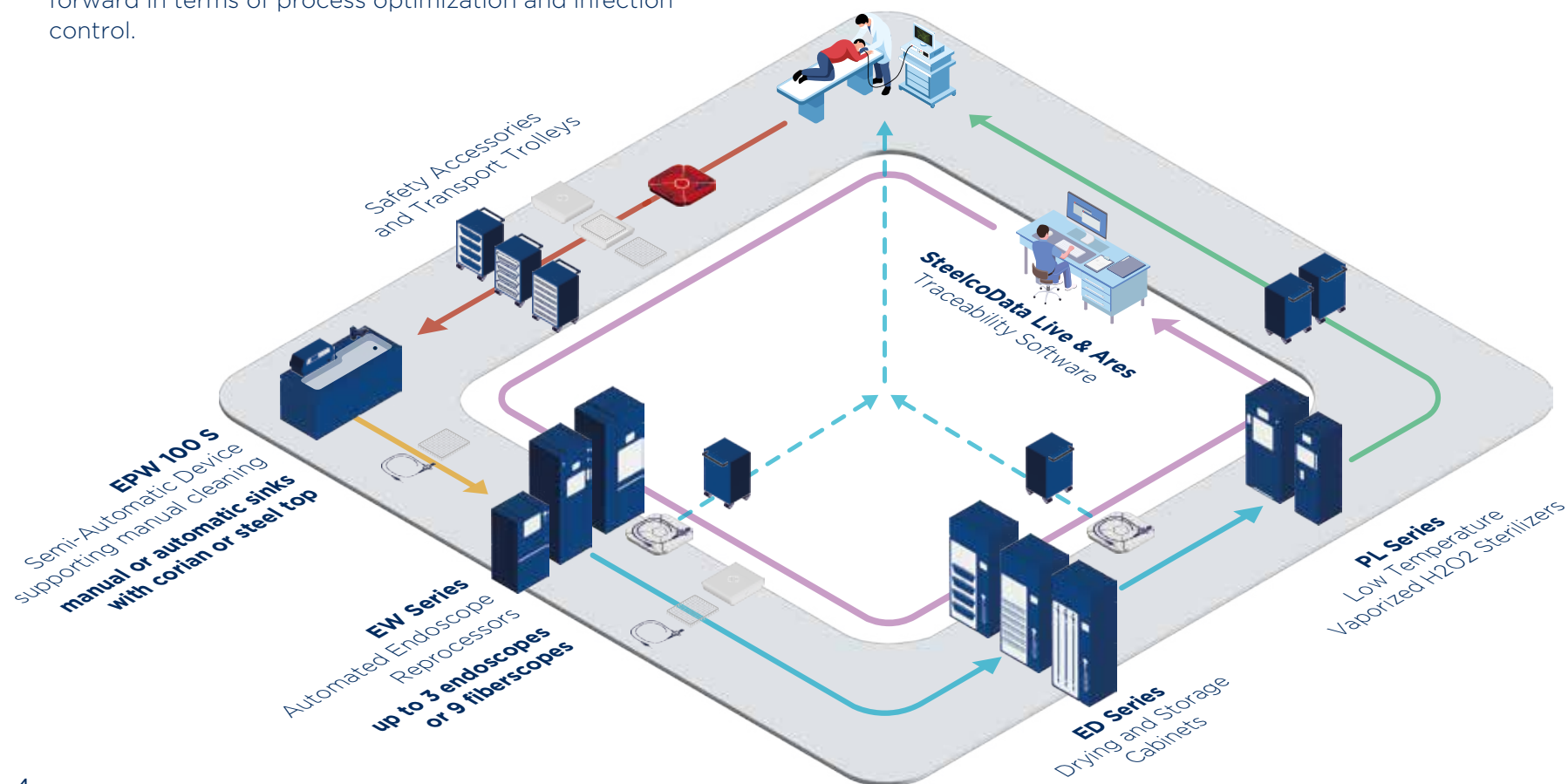
ARES system

Covering the entire workflow of endoscope reprocessing

Our ARES system platform offers **a comprehensive selection of devices covering the entire workflow** of endoscope reprocessing.

With a focus on **safety, automation, traceability, and ergonomics**, we guarantee full compliance with international standards and leading-edge technology such as the OCS system – One-Time Connection system, yet another step forward in terms of process optimization and infection control.

Our series of automated endoscope reprocessors best ensure reprocessing **efficiency, infection control, and cost-effective operation**, thanks to dedicated workflow solutions, full integration with our low temperature vaporized H₂O₂ sterilizers and SteelcoData Ares traceability software, not to mention RFID hands-free process and unique OCS – One-Time Connection System technology.





Key Advantages

A winning combination



Steelco AERs have been designed to **fully comply with ISO 14937 and/or ISO 15883 standard** for low temperature washing and high level disinfection or liquid sterilization of flexible endoscopes. Results have been independently certified by duly accredited third-party laboratories.

All devices are manufactured in stainless steel for optimal hygienic performances and to grant automatic and programmable thermal self-disinfection cycles: the preferred method according with ISO 15883-4.



Connecting endoscopes channels with one gesture: **OCS technology**, a one-time connection system shared between prewashing, washing/disinfection, and drying/storage devices.

This **fast, ergonomic, and user-friendly technology** allows one-time endoscope handling and channel connection, simultaneously ensuring three times speedier connectivity.



Whatever the sizes and layout of your endoscopic department, we help you **plan, manage and optimize the workflow** to best ensure efficiency, productivity, and cost-effective operation. With this aim, we do not simply offer endoscopic reprocessing devices but a complete and integrated reprocessing system with carefully designed accessories.



Steelco ARES platform RFID hands-free process starts from pre-washing units to AERs and Drying Storage Cabinet. **Traceability identification of operators and scopes** is made safe with the touchless use of bracelets or badges. **No need to touch the device control panel** anymore, thus reducing potential cross-contamination risks and enhancing nurses' and patients' safety.

Small endoscopy clinics

Compact and smart solutions that help you dramatically reduce the necessary footprint even in the most restricted endoscopy suites while guaranteeing the best treatment efficacy and the highest safety levels. Our pass-through systems ensure a clear separation between dirty and clean areas to avoid the risk of cross-contaminations.

The ideal workspace for your bronchoscopes or cystoscopes reprocessing needs provides the most excellent level of patient care thanks to the integration with sterilization devices.



Pulmonology

Bronchoscopes allow fast and minimally-invasive procedures in the respiratory tract. Steelco has developed dedicated solutions allowing the high-level disinfection, liquid sterilization, and terminal low-temperature sterilization of bronchoscopes.



Urology and Gynecology

Cystoscopes allow the intervention of the urinary tract. Steelco has developed dedicated solutions allowing the high-level disinfection, liquid sterilization, and terminal low-temperature sterilization of cystoscopes.



Gastroenterology

The increasing number of screening and prevention programs demand hospitals to be able to improve the safety and throughput of endoscope reprocessing. Steelco has developed cutting-edge solutions for the high-level disinfection and liquid sterilization of endoscopes used in this application (gastrosopes, colonoscopes, duodenoscopes, ultrasound endoscopes, etc.).



ENT

Despite being less complex than GI endoscopes, the reprocessing of ENT endoscopes is moving towards the same standards used in gastroenterology. Steelco has developed dedicated solutions allowing the high-level disinfection, liquid sterilization, and terminal low-temperature sterilization of ENT endoscopes.





Reduction of Cross-Contamination in a Small Footprint

Pass-through devices for a one-way workflow from dirty to clean areas in order to avoid potential recontamination of reprocessed endoscopes and their related accessories. Ultimate safety solutions to bring endoscopes reprocessing to the next level thanks to the integration with low-temperature sterilization for cystoscopes and bronchoscopes.



SteelcoData Suite & OCS system

Ensure a complete endoscope reprocessing traceability with SteelcoData Suite and speed up your workflow thanks to the unique OCS connection system – One Connection System shared among our pre-cleaning, washing, disinfection, drying, and storage devices. Dedicated and integrated technologies for an even faster, safer, and error-proof reprocessing of your endoscopes.



Integration of endoscope reprocessing in CSSD

Endoscopy requires a level of safety similar to that of a CSSD; therefore, the long-term aim is to align endoscopy reprocessing standards to those of a CSSD, with an ultimate integration of sterilization and traceability. The centralization of endoscopy reprocessing departments indeed boosts hospital efficiency while benefitting from synergies in personnel training and availability: this results in a great advantage when planning for future developments in order to better cope with expansions.



Pulmonology

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Cardiology

Traditional manual reprocessing protocols for TEE probes do not provide optimum hygienic standards. To improve reprocessing safety and hygienic standards Steelco has developed dedicated solutions for the high-level disinfection of TEE probes.





Workflow Optimization

Centralization of endoscopy reprocessing departments indeed ensures safe and adequate workflows with a clear separation of dirty and clean areas to prevent the environmental recontamination of endoscopes. Hospitals can benefit from workflow differentiations with the possibility to integrate sterilization on the basis of each specific endoscope application (gastroenterology, urology, pneumology etc...).



High Throughput

Increased productivity as a result of bigger and adequate spaces combined with a focus on flexibility thanks to dedicated single scope devices to tackle urgencies as well as high-capacity ones to treat up to 3 standard endoscopes or up to 9 fiberbronchoscopes or cystoscopes in the same unit.



EPW 100 S

Semi-automatic device supporting endoscopes manual cleaning



Overall dimensions

WxDxH:
450 x 280 x 230 mm

Key Features

- + **Automation**
Rapid, easy, and traceable semi-automation of manual cleaning: continuous leak test, channels flushing, rinsing, and purging.
- + **Eco-Friendly**
Automatic dosing of single-shot detergent eliminating any risk of waste.
- + Dedicated **self-disinfection cycle**.
- + **Continuous leak testing** throughout the cycle.

EPW 100 S is **an automated system assisting manual cleaning**. Thanks to the automatization of the leak test and the washing and the rinsing of the endoscope channels, it supports operators eliminating the risk of injury and errors.

Equipped with a user-friendly HMI, the device permits hands-free instrument and operator identification through a barcode reader or RFID system.

The device allows total immersion of endoscopes according to most European country guidelines.

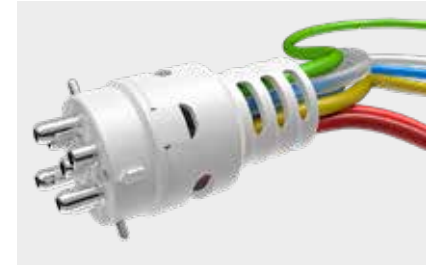
- + **Easy Residue Testing**
In a single gesture, the device conveys the rinsing water into a container for organic residue testing.
- + **Intuitive Control Panel**
Easy to use “soft touch” control panel and step by step cycle input by dedicated cards for barcode or RFID systems.





OCS Technology

EPW 100 S is equipped with OCS One-Time Connection System, a single connection system shared by pre-washing, washing/disinfection, and drying/storage devices -drastically reducing the risk of errors and endoscope manipulation throughout the process.



Hands-Free Process

Fast, hands-free hygienical selection of endoscopes and operators through the “built-in” barcode reader or RFID system. No need to touch the device control panel anymore, thus reducing potential cross-contamination risks and enhancing nurses’ and patients’ safety.



Full Traceability

This model provides a record of the cycle that can be printed, transferred to a USB stick, or integrated into the SteelcoData traceability system.



Sinks and Furnitures for Manual Cleaning

Different sized sinks and cabinets specifically designed for manual cleaning. The sinks are available with fixed or adjustable height, with stainless steel or Corian® tops. Furthermore, they can also be equipped with an automatic system for filling and draining the sink itself combined with EPW 100 S device.



EW 1 Series

Compact endoscope reprocessors



Treatment capacity

1 standard flexible endoscopes
up to 2 video broncho/cystoscopes
up to 4 fiber broncho/cystoscopes

Key Features

- + **Single door or double door** pass-through versions.
- + **Ergonomic** loading and unloading thanks to the hinged door that acts as a stand and as an anti-dripping surface.
- + Double bacteriological **water filtration system** down to 0,1 micron to ensure optimum disinfection performances.
- + Washing chamber **forced warm air drying** as an option.
- + **Automatic and programmable thermal self-disinfection** of the chamber, the washing cart, and the hydraulic circuit: the preferred method according with ISO 15883-4.
- + **3 chemical dosing pumps.**
- + **Integrated printer.**

The EW 1 Series of automatic endoscope reprocessors is designed for **low-temperature washing and high-level disinfection/liquid sterilization** of flexible endoscopes of the major brands and models available in the market. The series also allows the treatment of rigid endoscopes.

The devices' compact design assures low cycle costs by minimizing water, chemicals, and energy consumption, guaranteeing an optimal level of infection control and prevention.





Flexible Solution

A compact and highly flexible design. Also available in a "rack configuration" with two units installed one on top of the other in a unique frame structure to fit even the most restricted spaces. The rack configuration allows the complete **asynchronous reprocessing** of endoscopes in two completely independent units.



Optimal Performance with Steelco Chemicals

EW 1 has been developed to fully comply with EN ISO 15883-4 and EN ISO 14937 in combination with its validated set of chemistry for high-level disinfection or liquid sterilization processes at low temperature.



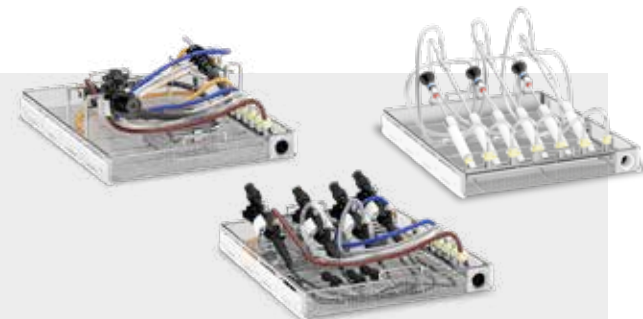
Full Traceability

Faster endoscope and operator recognition through the barcode/RFID reader option. Cycle details can be stored on a memory stick connected to the integrated USB interface, printed by the built-in thermal printer, or alternatively registered in the optional SteelcoData traceability software.



High throughput washing carts

The washing carts allows the proper placement of the endoscopes, avoiding overlapping points and ensuring a safe positioning even for the most delicate instruments.



EW 1 S Series

Endoscope reprocessors with OCS technology



Treatment capacity

1 standard flexible endoscopes
up to 2 video broncho/cystoscopes
up to 3 fiber broncho/cystoscopes

Key Features

- + **OCS connector**, a one-time connection system shared between prewashing, washing/disinfection, and drying/storage devices.
- + **Single door or double door** pass-through versions.
- + Washing chamber **forced warm air drying** as an option.
- + **Ergonomic** loading and unloading thanks to the hinged door that acts as

Equipped with a motorized hinged door, the devices' compact design assures low cycle costs by **minimizing water, chemicals, and energy consumption.**

With their integrated **individual channel monitoring system**, they guarantee a higher level of safety by checking the instrument channels' flow and pressure.

Doors are automatically actuated through a proximity sensor for a hands-free instrument loading operation. The devices are endowed with a stainless steel base for the storage of process chemicals.

The **rack configuration** is available to allow the **asynchronous reprocessing** of endoscopes even in the most restricted spaces.

- a stand and as an anti-dripping surface.
- + Dedicated EW 1 S **mesh trays** are compatible with Steelco ED 200 S series of drying cabinets.
- + Automatic and programmable **thermal self-disinfection** cycle: the preferred method according with ISO 15883-4.
- + **3 chemical dosing pumps.**
- + **Integrated printer.**
- + **Full traceability** with SteelcoData Suite.

OCS Technology

A fast, ergonomic, and user-friendly technology that minimizes operators handling of the endoscopes in all the phases of the process, significantly decreasing the risk of cross-contamination and the possibility of human errors.



RFID Hands-Free Process

Steelco ARES platform grants higher levels of safety thanks to a “hands-free” process with RFID technology. Traceability identification of operators and scopes is made safe with the touchless use of bracelets or badges. No need to touch the device control panel anymore, thus reducing potential cross-contamination risks and enhancing nurses’ and patients’ safety.



Optimal Performance with Steelco Chemicals

EW 1 S has been developed to fully comply with EN ISO 15883-4 and EN ISO 14937 in combination with its validated set of chemistry for high-level disinfection or liquid sterilization processes at low temperature.

RFID chemical identification: an additional safety feature to identify the proper chemical positioning and usage.



SteelcoSure Process Control

Steelco **Process Challenge Device (PCD)**, customized for our EW Series, is an auxiliary device for routine cleaning efficacy monitoring in compliance with ISO 15883-5 and HTM 01/06. Furthermore, the professional sterile water sampling kit **Steelco Q-Water BSK** is available for the safe routine sampling of the final rinse water of AERs. Other **SteelcoSure** process control indicators are available.



EW 1 S MAXI

Endoscope reprocessors with automatic OCS coupling



Treatment capacity

1 standard flexible endoscopes
up to 2 video broncho/cystoscopes
up to 3 fiber broncho/cystoscopes

Key Features

- + **OCS connector**, a one-time connection system shared between prewashing, washing/disinfection, and drying/storage devices.
- + Washing chamber **forced warm air drying** as an option.
- + Automatic and programmable **thermal self-disinfection** cycle: the preferred method according with ISO 15883-4.
- + **RFID chemical identification**: an additional safety feature to detect the proper positioning and usage of the correct chemicals validated according with ISO 15883-4.
- + **3 chemical dosing pumps**.
- + **Integrated printer**.
- + **Integrated RFID system** for endoscope and operator identification and hands-free processes.

In this model, the **OCS connector is automatically coupled through a pneumatic piston** located on the top of the washing chamber, for a faster process, a reduction of endoscope manipulation, and a facilitation of nurses daily job.

Available as single door or double door pass-through versions, EW 1 S MAXI has been developed to **fully comply with EN ISO 15883-4 and ISO 14937** in combination with its validated set of chemistry for high-level disinfection or liquid sterilization processes at low temperature.

Smaller footprint, bigger chamber: low consumption with a small footprint, yet with a bigger chamber and washing cart dimensions in comparison with EW 1 S.





Zero Gap Installation

Service accessibility from the front allows more accessible maintenance activities and a reduced footprint for better exploitation of the space, meaning no need to have extra space to the sides in pass-through installations.



Hands-Free Process

Doors are automatically opened through a **foot pedal** or **RFID sensor** for a hands-free endoscope loading and unloading operation.



Workflow solutions

Steelco offers a comprehensive range of solutions to meet the challenges of your reprocessing facilities. Dedicated EW 1 S MAXI mesh trays are compatible with Steelco ED 200 S series of drying cabinets.



Full Traceability with SteelcoData

Complete endoscope reprocessing traceability with SteelcoData Live & Ares: a web-based and cloud-ready traceability software designed explicitly to track and monitor each activity implemented in your ARES department.



EW 2 S Series

Endoscope reprocessors with OCS technology,
2 or 3 endoscopes capacity



Treatment capacity

EW 2 2S model

2 standard flexible endoscopes
up to 4 video broncho/cystoscopes
up to 6 fiber broncho/cystoscopes
up to 2 TEE probes

EW 2 3S model

3 standard flexible endoscopes
up to 6 video broncho/cystoscopes
up to 9 fiber broncho/cystoscopes
up to 2 TEE probes

Key Features

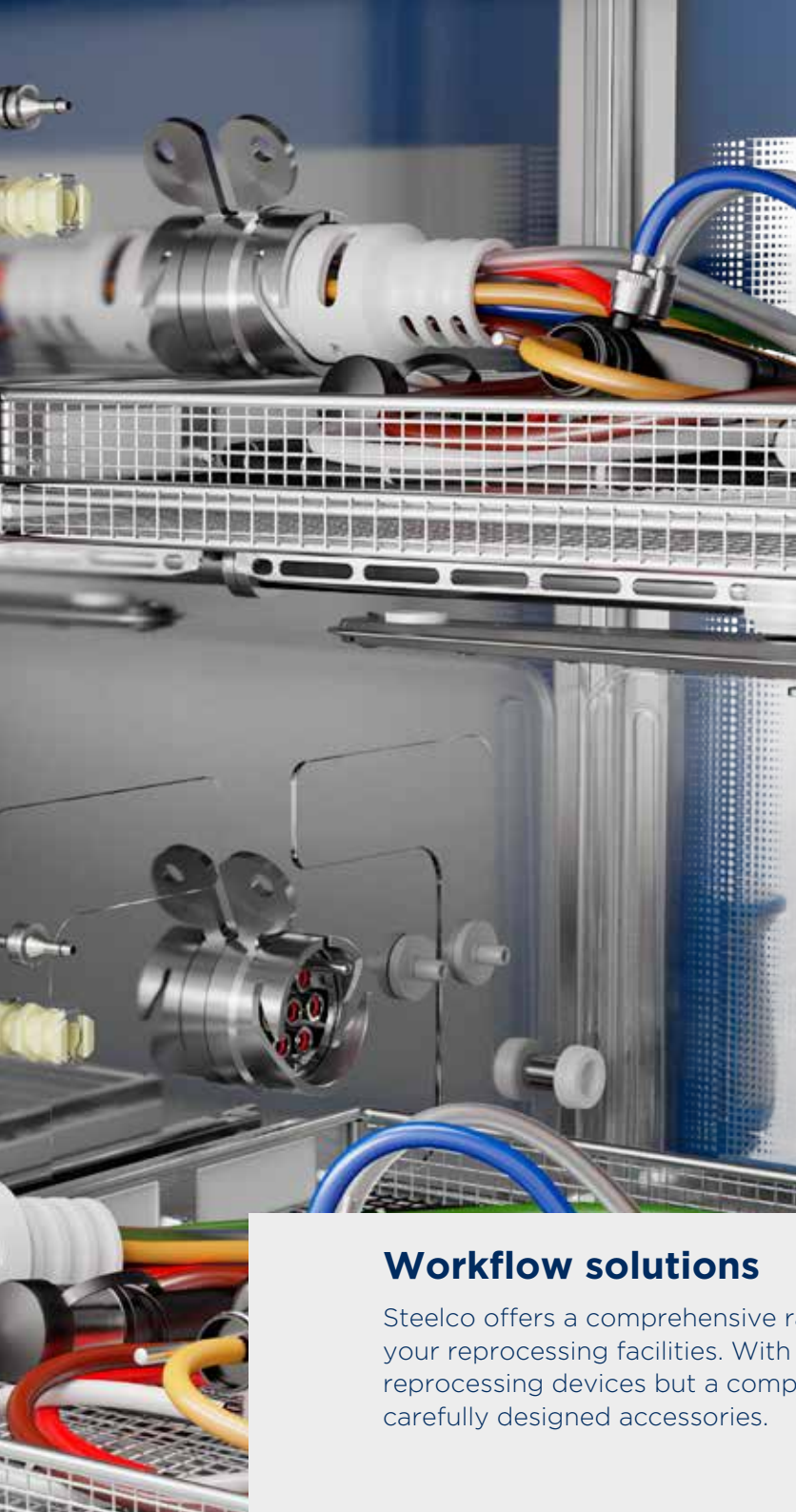
- + **OCS connector**, a one-time connection system shared between prewashing, washing/disinfection, and drying/storage devices.
- + Washing chamber **forced warm air drying** as an option.
- + Automatic and programmable **thermal self-disinfection** cycle: the preferred method according with ISO 15883-4.
- + Dedicated EW 2 S **mesh trays** are compatible with Steelco ED 200 S series of drying cabinets.
- + **RFID chemical identification**: an additional safety feature to detect the proper positioning and usage of the correct chemicals validated according with ISO 15883-4.
- + **3 chemical dosing pumps**
- + **Integrated printer**

The EW 2 S Series is **equipped with OCS** One-Time Connection System technology, a single connection system shared among pre-washing, washing/disinfection, and drying/storage devices.

Available as **single door or double door** pass-through versions, the models are equipped with sliding drawers that allow easy instrument loading and unloading operations, allowing ergonomic and effortless general use.

Doors are automatically actuated through a **proximity sensor** for a hands-free instrument loading and unloading operation.

Sliding door opening.



Dedicated Safe Case for TEE probes

Safe Case enables the reprocessing of TEE probes. The electrical transducer, the connection cable and the operating unit are protected in a hermetically sealed case, while the flexible tube remains exposed to the washing and high-level disinfection process.



Optimal Performance with Steelco Chemicals

EW 2 S has been developed to fully comply with EN ISO 15883-4 in combination with its validated set of chemistry for high-level disinfection processes at low temperature. **RFID chemical identification:** an additional safety feature to identify the proper positioning and usage of the correct chemicals validated according with ISO 15883-4.



Full Traceability

Faster endoscope and operator recognition through the barcode/RFID reader option. Cycle details can be printed by the built-in thermal printer or alternatively registered in the optional SteelcoData traceability software.



Workflow solutions

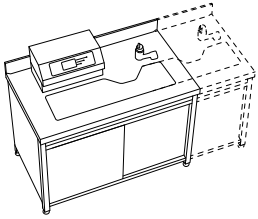
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Dimensions and technical data

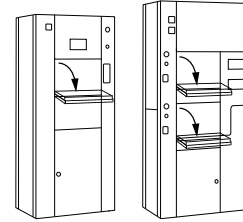
Layouts and configurations



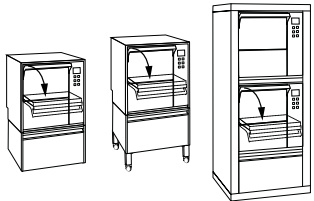
EPW 100 S	Overall dimensions mm		
	W	D	H
	450	280	230

Different sized sinks and furniture specifically designed to assist manual cleaning. These are ideal solutions for positioning the EPW 100 S especially combined **with sink automation**. The sinks are available with fixed or adjustable height, with stainless steel or Corian® tops.

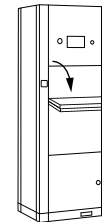
Dimensions available WxDxH mm: 1200/1600/2000 x 700 x 900 fixed height
1200/1600/2000 x 700 x 850/1150 adjustable height



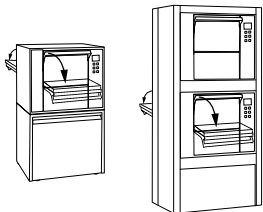
EW 1 S	Overall dimensions mm		
	W	D	H
Single and double door			
Single unit	704	570	1700
Rack configuration	900	590	1890



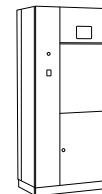
EW 1 single door	Overall dimensions mm		
	W	D	H
EW 1/1	600	630	953
EW 1/1 with wheels	600	630	1200
EW 1/1 RACK	750	690	1643



EW 1 S MAXI	Overall dimensions mm		
	W	D	H
Single and double door			
Single unit	650	587	1850



EW 1 double door	Overall dimensions mm		
	W	D	H
EW 1/2	710	570	1206
EW 1/2 RACK	860	570	1663



EW 2 2/3 S	Overall dimensions mm		
	W	D	H
Single and double door			
Single unit	860	710	1960



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