



# WASHING AND DISINFECTION CABINS WDC



Benefit from our many years of experience in manufacturing, consulting, sales, project planning, service and state-of-the-art equipment technology so that you can concentrate on your core tasks



WDC

# WELCOME

With more than 45 years of experience in the field of medical and laboratory technology, the second generation of SCHLUMBOHM Medizin-Labor-Technologie-Hamburg GmbH is already successfully meeting the demanding requirements of the market. As early as 2014, company founder Hans-Joachim Schlumbohm retired from day-to-day operations and handed over the management to his son Tobias Schlumbohm. Schlumbohm Senior continues to be responsible for research and development in the company.

As a manufacturer of steam sterilizers, washer disinfectors, care combinations, stainless steel furniture, and systems for the treatment of medical waste, we supply hospitals and laboratories worldwide with our medical and laboratory technology. We have over 120 highly qualified employees working at our production sites in Germany and Italy.

The correct determination of requirements and the preparation of planning proposals are an absolute must. Professional project support, right up to installation and commissioning, is just as important as seamless customer service. With our solutions, you not only receive technically mature systems but also the assurance that you have a professional partner taking care of your functional processes.

An important key to our long-term success and market acceptance is ensuring quality, operational reliability, and functionality in day-to-day operations while harmonizing these features with economic aspects.



In this context, we have a team of over 20 service technicians available to you 365 days a year, 24 hours a day, providing immediate service throughout Europe. The management in Hamburg handles accepting orders and the scheduling of all field employees

Tobias Schlumbohm  
CEO

Hans-Joachim Schlumbohm  
Shareholder

## WDC PRODUCT INFORMATION

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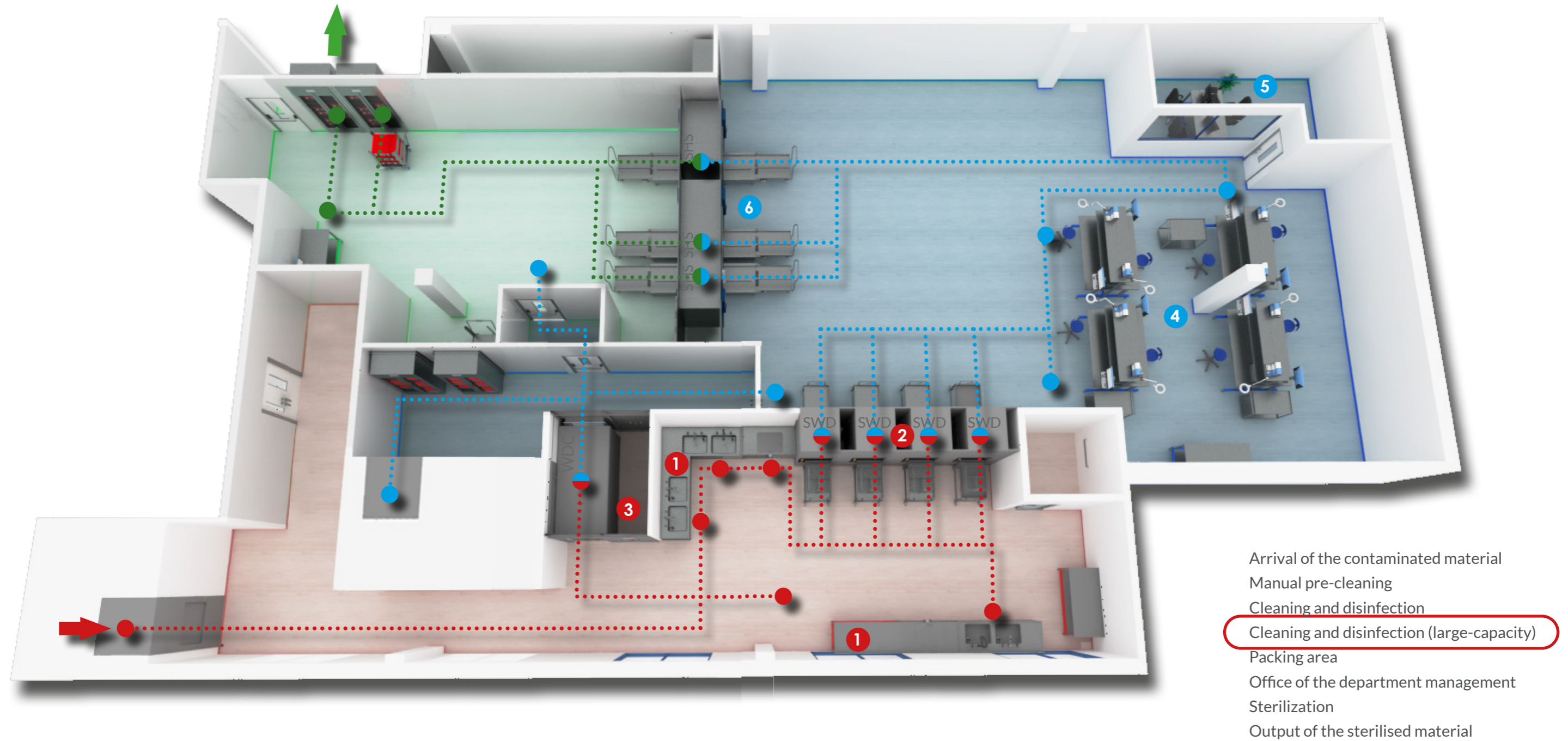


INNOVATIVE NEW PRODUCTS PRESENTED IN BRIEF  
THE NEW GENERATION OF OUR FULLY AUTOMATIC  
WASHING AND DISINFECTION CABINS

## WASHING AND DISINFECTION CABINS

The new generation of fully automatic SCHLUMBOHM washing-disinfectors cabins of the WDC series represents the outcome of cutting-edge development work and proven, mature device technology, designed for everyday use in the medical sector. The future-oriented development prioritized user-friendliness, as well as energy and resource-saving technology. Additionally, optimal accessibility for maintenance and service was a key focus.

Equipped with high-quality, commercially available components, our washing-disinfectors cabins offer a combination of excellent operational safety and innovative technologies aimed at reducing operating costs. These devices fulfill all the requirements of a market where maximum safety, absolute reliability, and reproducible treatment processes are essential.



The SCHLUMBOHM washing-disinfectors cabins are compliant with UNI EN ISO 15883-1/6 and are suitable for the washing and disinfection of various types of goods.

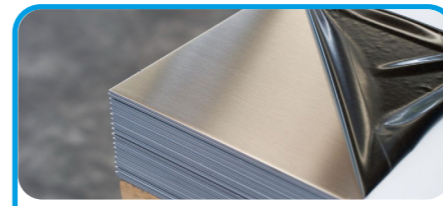
# Technical Specifications



Preheating tank in stainless steel AISI 304 for hot water.  
AISI 304 stainless steel reservoir for cold water.



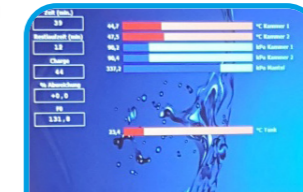
SIEMENS programmable PLC, ensures the control and safety of the equipment during all phases of operation.



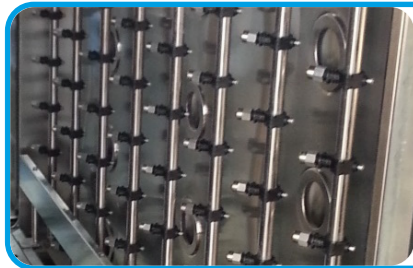
The supporting structure and the cladding panels are made of AISI 304 stainless steel.



Drying unit equipped with a filter bacteriological absolute, turbo fan and heating system with electric resistors.



17" touch screen Full Color-TFT-LCD. Resolution 1280 x 1024.



Rotating collectors with nozzles sprayers placed on the vertical walls of the washing chamber.



Hydraulic system consisting of stainless steel tubes, AISI 316 quality.

The careful planning of the system guarantees the perfect passage of fluids, avoiding the areas of restraint and stagnation. All connections are made using Tri-Clamp technology and TIG orbital welding.



The sealed separation barrier ensures a sealed separation between the operating areas, perfectly isolating the clean area from the sterile area. The barrier is made entirely of stainless steel AISI 304 and welded to the frame structure and the chamber.



The perfectly insulated steam generator is made of AISI 316L stainless steel and has an automatic drainage system.



High resistance thermal glass double door with argon / krypton gas inside.



All components of the hydraulic system, such as valves, etc. they are made of AISI 316L stainless steel.

The use of efficient components guarantees a long life.



Bottom of the walkable room, perfectly drained and cleanable.



The automatic washing and disinfection process eliminates the risk of infection transmission, reduces washing time, lowers costs, and validates the cycle. To ensure consistent and reliable performance over time, the WDC line is equipped with devices and sensors to verify and confirm data, significantly reducing the likelihood of errors.

After undergoing testing during the production process, the equipment is capable of monitoring key parameters to ensure consistent washing results over time. These parameters include water pressure, water temperature, movement speed of the water jet, mechanical action of the water jet, and the addition of chemicals. By the end of the washing and disinfection cycle, the equipment achieves high cleaning standards and significantly reduces the microbial load, resulting in a substantial logarithmic reduction (LOG) of microorganisms.

The constant monitoring of «bioburden» enables the evaluation of disinfection effectiveness and its trend over time. The thermochemical energy released from the solution, when diluted in hot water, achieves a thermodesinfectant effect by attacking microorganisms with dual activities to eliminate their resistance. Monitoring occurs in several areas, including detergent and disinfectant dosage, pH control at drain, water temperature regulation, and contact time of water with instrument surfaces (A0).

The WDC equipment undergoes testing according to the reference standard, as well as the connected equipment, to evaluate the quality of disinfection.

Series	Models	Capacity (l)	Load capacity	Chamber dimensions (LxHxP)	Overall dimensions (LxHxP)
SD	WDC.SD.S.1/2HD.E/HE/EHE	2720	2 x trolley 6US 1 x trolley 9US	850X2000X1600	2300x2600x1800
SD	WDC.SD.D.1/2HD.E/HE/EHE	5100	4 x trolley 6US 3 x trolley 9US	850X2000X3000	2300x2600x3200
DD	WDC.DD.D.1/2HD.E/HE/EHE	5250	1 single bed 3 x trolley 6US 2 x trolley 9US	1050X2000X2500	2700X2600X2700
OT	WDC.OT.1/2HD.E/HE/EHE	3740	1 operation table 2 x trolley 6US 2 x trolley 9US	850X2000X2200	2300X2600X2400
DT	WDC.DT.1/2VD.E/HE/EHE	485	15 DIN	700X730X950	1135X2000X1100

## Executions

In the standard configuration, the machine is installed in a recessed pit. The washing and disinfection chamber is situated at floor level and features an automatic connection device that enables direct entry of trolleys, beds, operating tables, or other wheeled devices.



The automatic loading or unloading device is designed for floor-level installation. It facilitates the automated movement of the trolley from the loading area into the washing chamber and automatically unloads it at the completion of the washing and disinfection cycle.



The lifting platform is a device specifically designed for equipment that is not at floor level. It is used to raise the trolley from ground level to the appropriate height for loading or unloading.



The automatic lifting platform is specifically designed for equipment that is not at floor level. This device is responsible for transporting the trolley from ground level to the appropriate loading or unloading height. Additionally, it automatically moves the trolley from the loading area into the washing chamber. At the end of the washing and disinfection cycle, the device automatically unloads the trolley and brings it back to floor level.

All models offer various heating options:  
 E: Electric steam generator located inside the machine.  
 HE: Internal heat exchanger.  
 EHE: Combination of both types of heating.

In addition to the aforementioned models, devices with customized external dimensions and chamber sections can also be provided. The dimensions of the device may vary depending on the specific equipment.

## Technical solutions for different applications

The WDC line provides a diverse range of specific devices tailored to the type of material being treated. This ensures maximum efficiency during the washing and disinfection phases.



The washing chamber of the equipment is equipped with an automatic connection system that allows for the placement of one or two universal trolleys, depending on the specific type of equipment.

The universal trolley is available in two versions: the universal trolley BIG and the universal trolley SMALL. The selection of the appropriate version depends on the specific equipment it will be used with.

The universal trolley consists of five levels, each equipped with two rotating wash arms.

## Configuration of the universal trolley

The universal trolley is specifically designed to wash and disinfect a variety of items, including surgical instruments, containers, clogs, basins, transport containers, and trolleys.

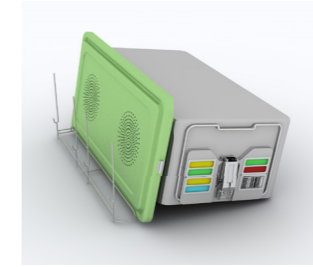
Surgical instruments can be processed by placing them directly on the washing surfaces without the need for specific racks or holders.



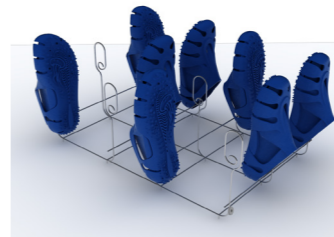
### Universal trolley for surgical instruments

- 20 x 1DIN Tray - UT Small
- 40 x ½DIN Tray - UT Small
- 30 x 1DIN Tray - UT Big
- 60 x ½DIN Tray - UT Big

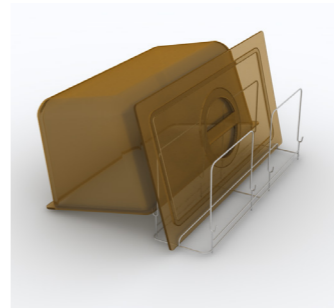
Optional racks for the following application areas:



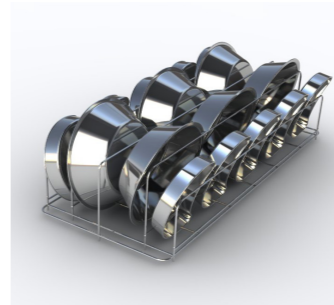
**Universal trolley for containers**  
15 x 1STU Container - UT Small  
20 x 1STU Container - UT Big



**Universal trolley for clogs**  
50 Pairs - UT Small  
60 Pairs - UT Big



**Universal trolley for transport containers**  
15 Pieces - UT Small  
20 Pieces - UT Big



**Universal trolley for basins**  
Different combinations of shapes and sizes.



### Transport trolleys

For the treatment of transport trolleys, the WDC series devices have a movable base plate for the automatic tilting of the load. Thus the drainage of the residual water and a carryover of the cleaning liquids are prevented. In addition, faster and more efficient drying is ensured.

# Series and flexibility



1 x Universal trolley BIG



1 x Universal trolley SMALL



1 x Hospital bed



3 x 6STU Transport trolley

## Series SD.Single

Chamber dimensions 850X2000X1600  
Overall dimensions 2300x2600x1800



2 x 6STU Transport trolley



1 x 9STU Transport trolley

## Series DD

Chamber dimensions 1050X2000X2500  
Overall dimensions 2700X2600X2700



2 x 9STU Transport trolley



1 x Universal trolley BIG



2 x Universal trolley SMALL



2 x Universal trolley



2 x Universal trolley SMALL



1 x Operating table



2 x 6STU Transport trolley

## Series SD.Double

Chamber dimensions 850X2000X3000  
Overall dimensions 2300x2600x3200



3 x 6STU Transport trolley



2 x 9STU Transport trolley

## Series OT

Chamber dimensions 850X2000X2200  
Overall dimensions 2300x2600x2400



2 x 9STU Transport trolley



1 x Universal trolley

## Technical solutions for different applications

The WDC line offers a wide range of specific devices according to the material to be treated, to maximize the efficiency of the washing and disinfection phases.

For the treatment cycle of the surgical instruments a wash trolley has been designed equipped with impellers that perfectly cover the washing and disinfection area.



For the container treatment cycle, a floor washing trolley has been designed, which allows for the simultaneous loading of the sterilization containers and their lids with the impellers that completely cover the washing and disinfection area.



For the hospital shoe treatment cycle, a washing trolley has been designed that allows for the loading of the plinths with impellers that effectively cover the washing and disinfection area.



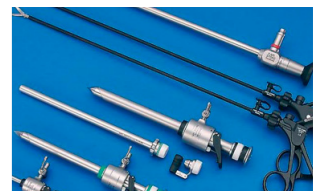
For the glassware treatment cycle, a washing trolley has been designed that enables the secure placement of glass containers of various sizes using impellers that effectively cover the washing and disinfection area.



For the anesthesia kit treatment cycle, a trolley has been designed that facilitates the loading of the various components of the kit using impellers that effectively cover the washing and disinfection area.



For the treatment cycle of minimally invasive and tubular instruments, a washing trolley has been designed to enable the loading of various instruments through quick and flexible connections using impellers that effectively cover the washing and disinfection area.



The WDC line represents a series of state-of-the-art thermal disinfection machines, developed by SCHLUMBOHM Medizin-Labor-Technologie-Hamburg GmbH, incorporating the latest advancements in project design.

Thanks to their advanced technology, creativity, design, and extensive company knowledge gained through decades of experience in the biomedical sector, SCHLUMBOHM Medizin-Labor-Technologie-Hamburg GmbH has developed equipment based on the concept of Total Quality. This equipment is capable of meeting the demands of a market that seeks absolute assurance in terms of safety, reliability, and the consistent repeatability of thermal disinfection processes.

Total Quality to manufacture Medical Devices with high standards of construction, via advanced technologies and innovative solutions for an eco-sustainable project providing water and power consumption and thermal dissipation close to zero.



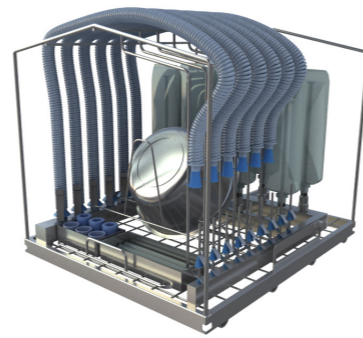
## Internal trolley configuration



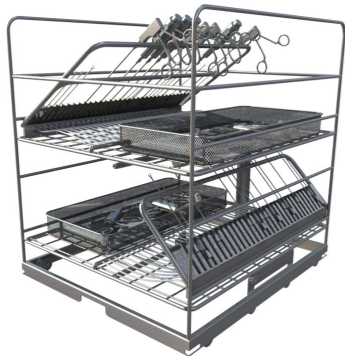
5-LEVELS INSTRUMENTS



3-LEVELS INSTRUMENTS



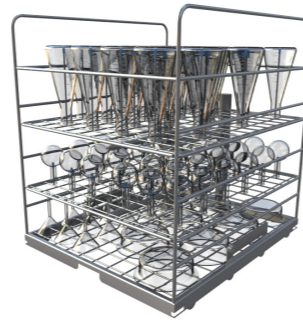
ANESTHESIA



LAPAROSCOPY



MICRO-SURGERY



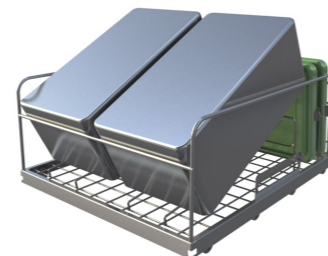
GLASSWARE



BASINS



MEDICAL SHOES



CONTAINERS



BABY BOTTLES



EXTERNAL TROLLEY



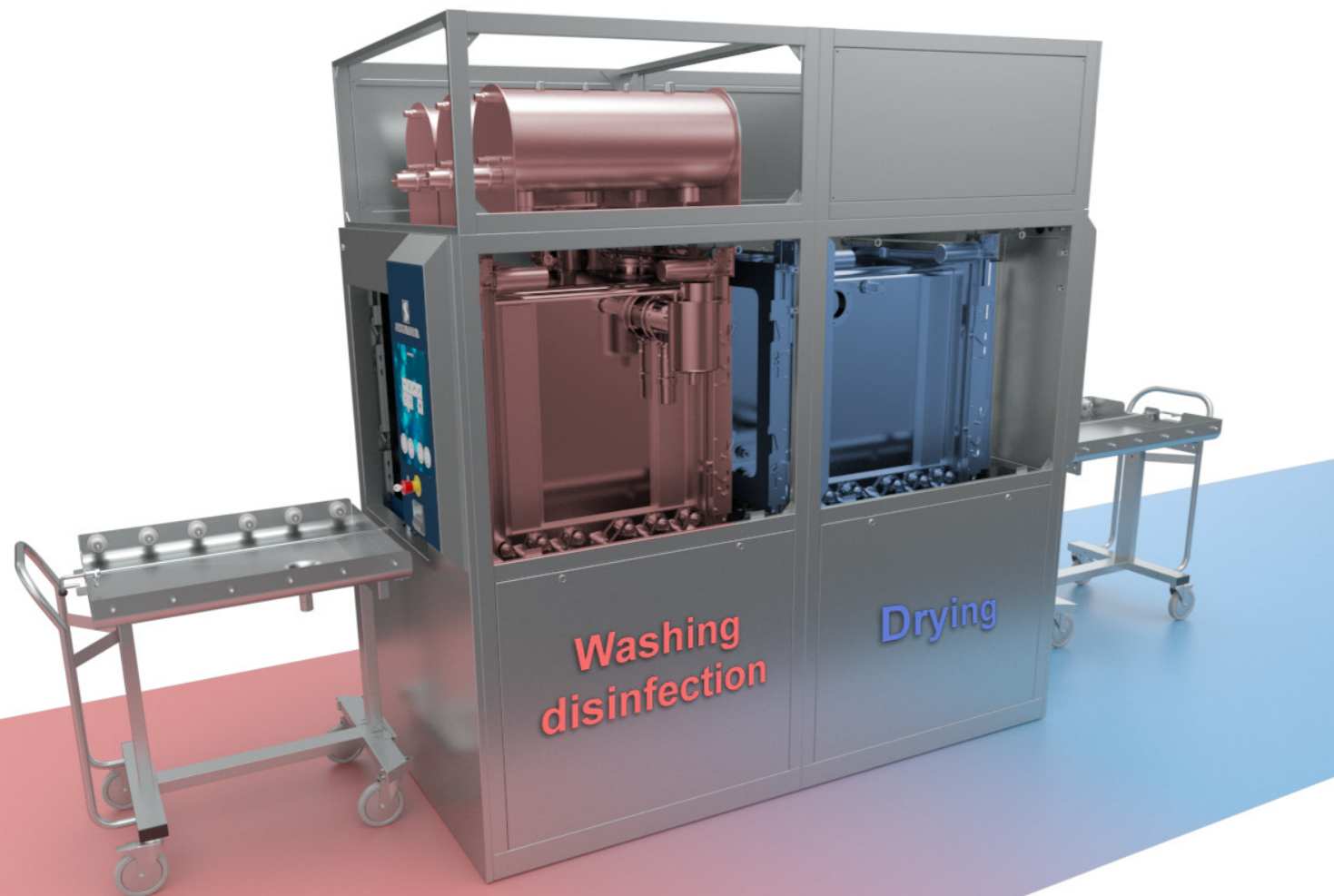
Series	Models	Capacity (l)	Load capacity	Chamber dimensions (LxHxP)	Overall dimensions (LxHxP)
WDC	WDC.8.1MD.E/HE/EHE	165	8 DIN	550x500x600	600x860x650
	WDC.8.1MD.E/HE/EHE.SC				900x860x650
WDC	WDC.10/12.1/2MD.E/HE/EHE	265	10/12 DIN	560x800x580	650x1870x930
	WDC.10/12.1/2MD.E/HE/EHE.SC				650x2400x950
WDC	WDC.10/12.1/2VD.E/HE/EHE	265	10/12 DIN	560x800x580	680x1870x930
	WDC.10/12.1/2VD.E/HE/EHE.SC				680x2400x950
WDC	WDC.15/18.1/2VD.E/HE/EHE	491	15/18 DIN	700x780x900	1150x1870x1130
	WDC.15/18.1/2VD.E/HE/EHE.SC				1150x2400x1150
WDC	WDC.16.1/2VD.E/HE/EHE	551	16 DIN	700x1050x750	1150x2000x980
	WDC.16.1/2VD.E/HE/EHE.SC				1150x2400x980
WDC	WDC.30.1/2VD.E/HE/EHE	971	30 DIN	700x730x1900	1150x2000x2050
	WDC.30.1/2VD.E/HE/EHE.SC				1150x2400x2050
WDC	WDC.32.1/2VD.E/HE/EHE	1010	32 DIN	700x1050x1375	1600x2000x1600
	WDC.32.1/2VD.E/HE/EHE.SC				1600x2400x1600

## Productivity

The devices of the WDC line, both in the single version and in the multi-station version, are the ideal solution for meeting the demand for high productivity.

The technical devices implemented to accelerate the washing and disinfection cycle, along with the optimization of phases and the generous sizing of components, enable the achievement of measurable results in terms of both speed and washing and disinfection quality.

The multi-station version enhances the productivity of the device by allowing the processing of up to one trolley every 15 minutes. This is achieved through the separation of the washing and drying phases, which occur simultaneously on two separate devices installed in series.



**You want to know more about this product?**

... please contact our sales department.  
We are looking forward to your inquiry.  
Your SCHLUMBOHM Team

[vertrieb@schlumbohm-medlab.com](mailto:vertrieb@schlumbohm-medlab.com)

# Range of services



## STEAM STERILIZERS + AUTOCLAVES

### SHS Series + SLS Series

The new generation of fully automatic SCHLUMBOHM steam sterilizers/autoclaves of the SHS + SLS series is the product of cutting-edge development work and proven, advanced equipment technology for everyday use in the medical field. An easy User-interface, energy and resource-saving technology, and optimal accessibility for maintenance and service were key considerations in this pioneering development.



## MEDICAL + LABORATORY WASHER DISINFECTORS

### SWD Series + SWD LAB Series

The devices of the SWD + SWD LAB series are the ideal washer disinfectors for the safe and efficient reprocessing of surgical instruments, minimally invasive instruments, anesthesia materials, containers, surgical shoes, and laboratory utensils. In addition to an appealing design and compact size, innovative features to enhance process reliability and compliance with DIN EN ISO 15883 were prioritized during their development.



## LARGE-CAPACITY WASHER DISINFECTORS

### WDC Series

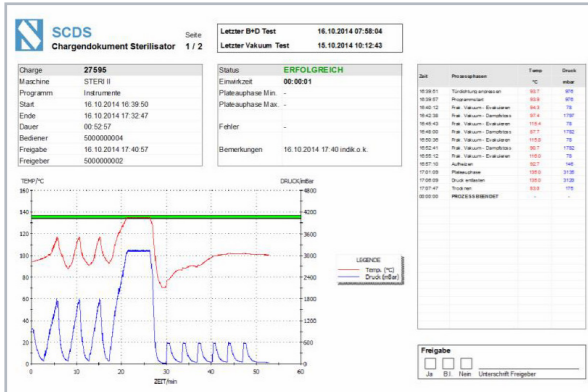
Large-capacity washer disinfectors are designed for the reprocessing of medical devices, as well as large-volume goods such as transport trolleys, containers, surgical shoes, and more. The development of these washer disinfectors took into account aspects such as safety, hygiene, durability, reliability, low maintenance, and resource-saving usage. These devices ensure a high level of operator safety while delivering optimal cleaning results.



## STEAM DISINFECTION SYSTEMS

### SHD Series

Large-scale disinfection systems utilizing the VSV process are designed for the effective disinfection of large-volume goods, primarily for infection prevention purposes. These systems are particularly suitable for economically disinfecting substantial quantities of solid and porous items such as mattresses and pillows. The latest generation of high-tech solutions has been developed with a focus on economy, resource conservation, and user-friendliness, ensuring maximum operator safety and achieving optimal disinfection results.



## BATCH DOCUMENTATION

### SCDS

The SCDS batch documentation system provides a comprehensive system solution for complete sterile material documentation. It has been specifically developed to enable fast, simple, and secure documentation that fulfills all legal requirements. All work steps in the treatment process are meticulously recorded, documented, and stored. As a result, the time needed for documenting processes in the sterile material supply department is significantly reduced.

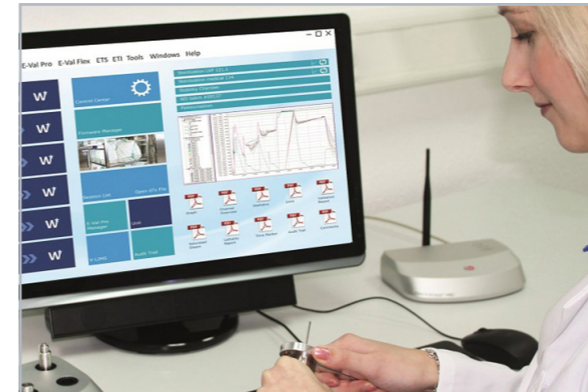
# Range of services



## MEDICAL WASTE TREATMENT

### Truster T-Series

Truster: a technology to be trusted for "biohazard" waste treatment in total safety and respecting eco-sustainability. The purpose of biohazard waste treatment must be to sterilize them and make them unidentifiable and non-reusable. A combined process of mechanical grinding and saturated steam sterilization without any risk of aerobic pollution and of bad smell emission.



## VALIDATION

### Quality assurance during reprocessing

Due to our high professional standards in the fields of cleaning, disinfection, and sterilization, we have a team of qualified application engineers available to assist you. When validating treatment processes, our focus is on implementing quality assurance measures and ensuring the requirement of reproducible processes in the treatment of medical devices. We are here to help you analyze and optimize your treatment process.



## CARE COMBINATIONS

### AF2 Series

Bedpan washers and care combinations are designed for fully automatic emptying, cleaning, and thermal disinfection of bedpans, urine bottles, and other vessels used for human excreta. These systems fully comply with the requirements of the German Medical Devices Act (MPG), the Medical Devices Operator Ordinance (MPBetreibV), DIN EN 15883 Parts 1 and 3, and the recommendations of the Robert Koch Institute (RKI) on "Requirements for hygiene in the reprocessing of medical devices".



## STAINLESS STEEL FURNITURE

### Functional furniture

Our medical functional furniture, crafted with high-quality materials and excellent workmanship, is renowned for its adherence to the highest hygiene standards, extensive functionality, and individual adaptability. The use of stainless steel grade 1.4301 ensures not only resistance to disinfectants but also a prolonged lifespan compared to other materials.

## OR-TABLES / OR-LIGHTS



## TABLE TOP STERILIZERS



## CSSD AUTOMATION



... and more. Please contact our sales department. We will find the right solution for you.

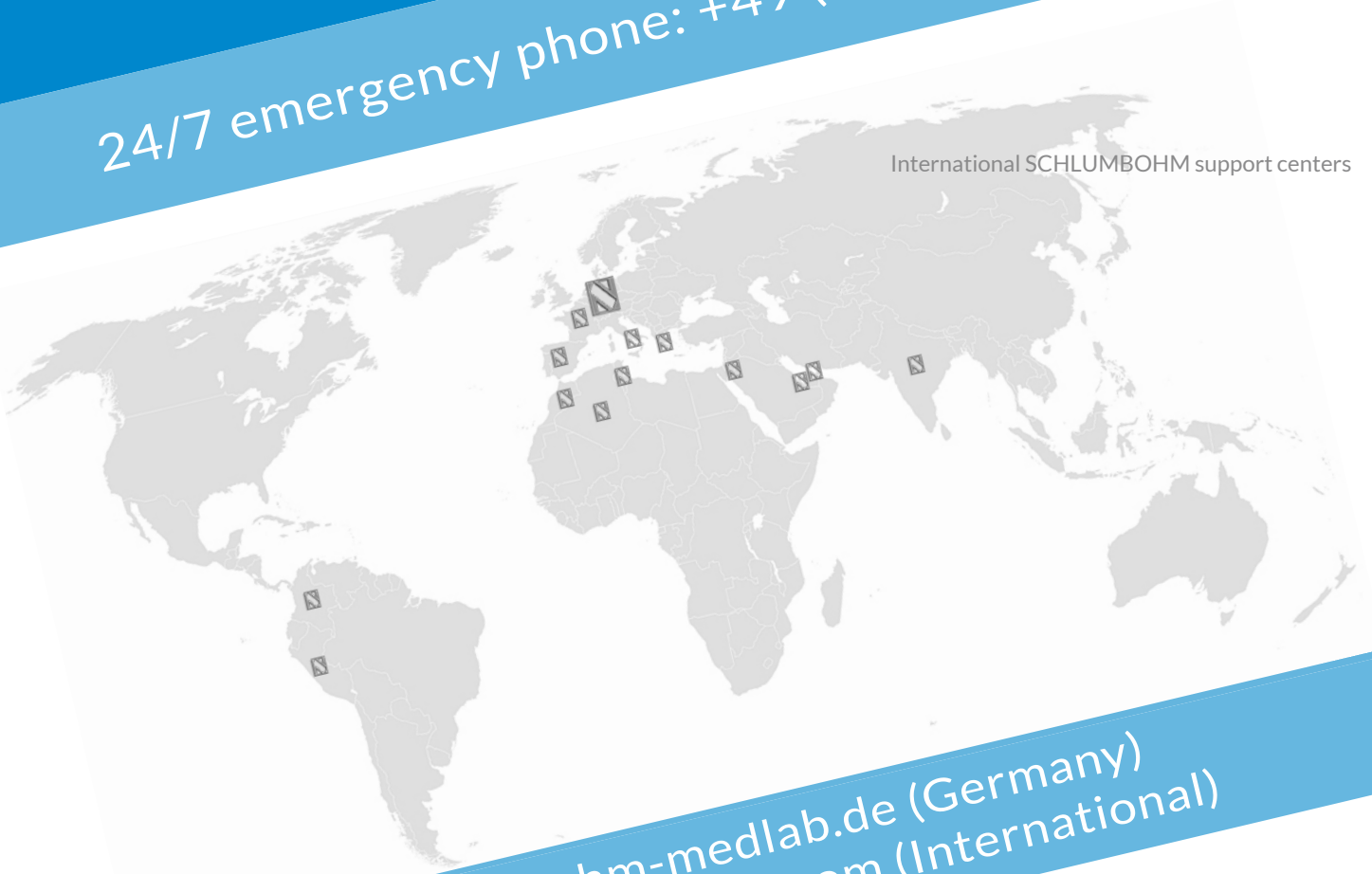
# Europe-wide 24-hour emergency service

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STAMP



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International SCHLUMBOHM support centers

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[www.schlumbohm-medlab.com](http://www.schlumbohm-medlab.com) (International)



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*goes green!*

EN ISO 14001 CERTIFIED