

Hygiene Equipment 2008

History

1773

Nail maker's workshop develops into scythe production.

19th century

Scythe trademark becomes known not only in Austro-Hungarian monarchy but in whole Europe as well.

1964

Introduction of new manufacturing program for stainless alloying steel: Systems and equipment for slaughterhouses and butcher's shops.

1998

ISO 9001 certificate

1999

Introduction of TQM system - Total Quality Management.

2001

Production modernization - laser cutting machine, CNC computer guided machines which assure high quality of our products.

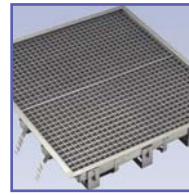
2003 -2008

Application of new designs, further modernization.



Product range

General cleaning - HACCP



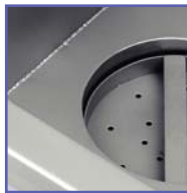
1

Washing and drying machines for Euro-boxes, palettes and 200-300 Litre trolleys



2

Hand, boot, apron, clog & sole cleaning and disinfection



3

Cleaning and disinfection of knives, axes, tools & small parts, low pressure foam cleaning system



4

Hand-wash basins, troughs & accessories



5

Boot & apron wardrobe and dryers, knife baskets, waste bag holder



6

Sanitary blockades: crucial contribution to the quality ensurance.

Complete food-processing industry has the EU 64/433 directive as the basis for the optimal sanitary management. The aim of that directive is to prevent the infection of food through careful intervention in cleanliness of the staff, gadgets, machines, rooms and equipment. Therefore, it is not allowed, for instance, to operate the Hand-wash basins manually with your hands. Experts, who visit the companies, can even take temporary precautions against insufficient attention to the regulations.

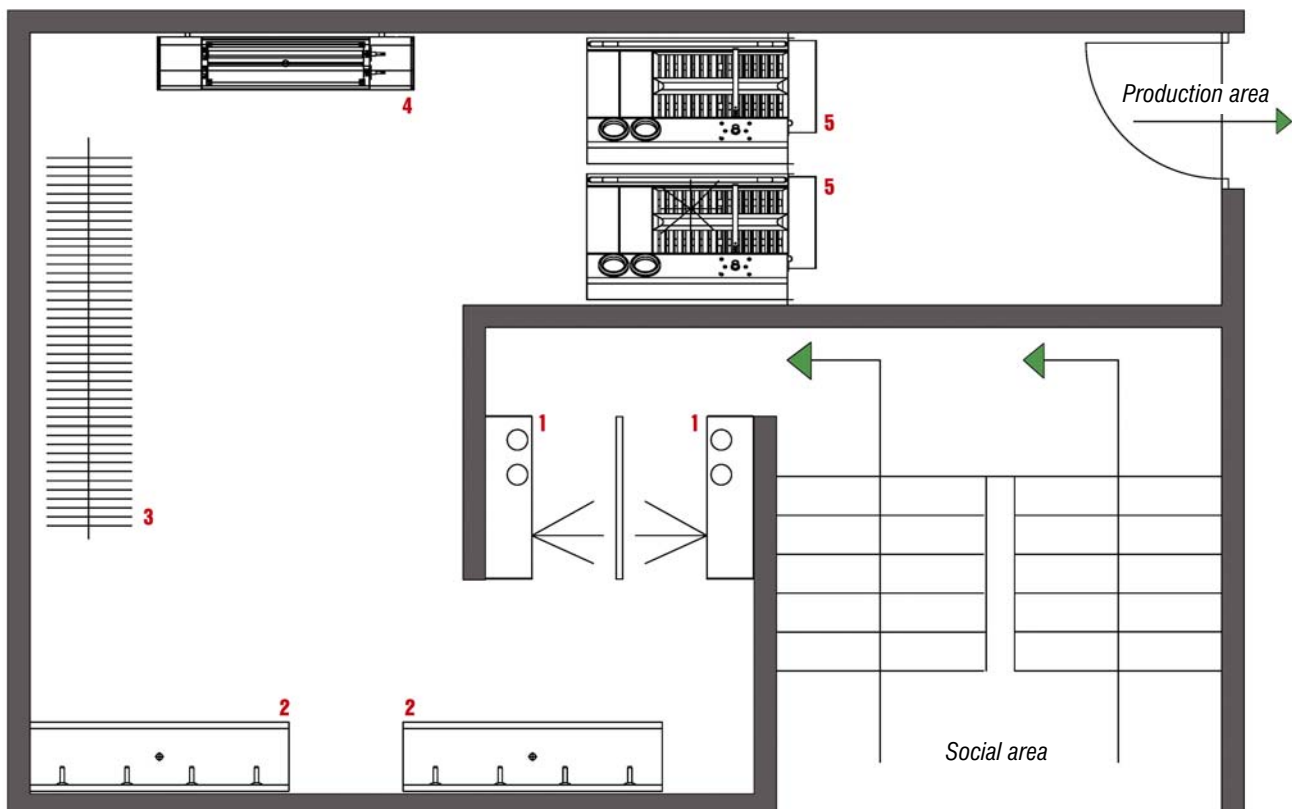
Thus, hygiene is fundamental in every factory and needs to be taken into consideration in management as well. It holds true: optimum hygiene is the first condition for security of products, positive image and economic success.

High level of hygiene is synonymous with high quality. Weaknesses in hygiene in a factory are as serious as microbiological risk. All those weaknesses can be prevented with appropriate sanitary measures, which also and above all include the members of the staff. One of the mentioned weaknesses is in the meanwhile connected with the demarcation line between the fields of

work and other fields in a factory. That usually cannot be solved easily. Only carefully planned sanitary blockades, set at the entrance of the sensitive areas of work, can help. Each sanitary blockade is made up of certain standard construction elements (look at the picture) and can be adjusted to individual needs without difficulties.

Therefore, it is possible to make an efficient contribution to the protection of quality in a fairly easy and satisfactory way.

- 1) Automatic soap dispenser HDK/SG (2x)
- 2) Washing trough WR4 (2x)
- 3) Apron drying frame SZT
- 4) Apron cleaning machine SWM
- 5) Hygiene station URK (2x)



Hygiene management - HACCP

Hygiene management

With the HACCP (Hazard Analysis and Critical Control Points) concept, the factory with adequate system ensures hygiene quality of its products. Hygiene management cannot be confined to one field. On contrary, it has to include the complete process of production. It is here that the principle 'the strength of a chain depends on its weakest member' comes forward.

Hygiene concept should include following points:

- Analysis of the plant with purpose of stating and defining the critical points
- Clear cut between the clean and unclean zones of workers in hygiene regulations
- The workers must use sanitary blockades
- Regular control
- Consistent and radical cleaning of the containers for transportation
- Cleaning the tools
- Hygiene of the production area
- Use of the appropriate detergents and disinfectants

Personal hygiene

Personal hygiene has an important role in transfer of effective hygiene management. Therefore, it is important to pay attention to the following facts:

- An appropriate number of Hand-wash basins or automatic Hand washers should be placed at all important places.
- Hands should be dried using the single-use towels.
- After washing, hands should be disinfected according to the regulations. Nowadays automated machines for hand-disinfection are used, which can be combined with a door-opening mechanism or a turnstile unit.

Clean clothes are as important as basic personal hygiene. Specially designed sanitary blockades effectively separate the work area from other spaces in the factory. By obliging the workers to use the sanitary blockades, a high level of hygiene is warranted.

- A lot of dirt can be brought into production area on shoes. Therefore, it is necessary to clean the soles and boots, according to the rules, in production areas as well as in other areas.
- After work it is also necessary to clean the aprons and gloves. Dressing rooms for aprons and helmets, as well as the closets, make some order on sanitary blockades and additionally provide optimal drying for clothes.

Tool and work area hygiene

Cleaning and sterilization of the cutting tools takes place directly at work, in so called sterilization troughs, as well as in special devices for cleaning and sterilization at the sanitary blockades. The machines and production area in factory are cleaned in process of cleaning with low pressure cleaning foam systems.

Hygiene in the process of production

Within the analysis of the process of production and distribution routs at the critical control points, containers for transportation must be included in the hygiene concept. Dirty and soiled surface of the cases and containers show an increase in hygiene risk. Depending on the size of a container and its construction, as well as on desired quantity of passage, the NIEROS Hygiene Equipment range offers an extensive programme of cleaning using different cleaning devices for each individual area of use.

Hygiene management needs reliable partners

NIEROS has the elements for the realization of effective hygiene systems:

- Design and equipment for sanitary blockades
- For fundamental thorough and effective cleaning of machines and buildings
- Special machines for the hygiene in the production process
- Documentation, service and maintenance
- Support in selection of adequate detergents and disinfectants
- Systems for safe storage of chemicals

Call upon an experienced expert. NIEROS hygiene experts are always at your disposal!



Tunnel washing machines for Euro-boxes



Industrial washing machine for Euro-boxes CL-T 200 and CL-T 200 XL

These compact machines on wheels are designed for cleaning of the small or medium-sized boxes with moderate level of dirtiness. Leading poles in tunnels can be set in the manner that it is possible to wash crates and other products of different sizes. The machine consists off main washing part and rinsing part. During the washing process, the water is cleaned through a double filtering system. Filtered water is heated again in the main wash water reservoir and pumped through a stainless steel pump to the spraying system (rotating wash arms). The water reservoir in the machine (volume 170 l) is automatically filled at machine's start. The containers are automatically transported trough the washing tunnel with a double chain conveyor system; the speed of which can be set on the control panel thus adjusting the machine to the level of dirtiness.

Options:

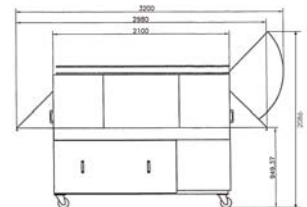
- 1 person control and operating
- Washing detergent or disinfectants dosing pump
- Variable transport speed
- Stainless steel mesh conveyor
- Rinse options:
 - Non heated water directly from water mains (standard)
 - Directly from water mains with el. flow heaters (2x9 kW)



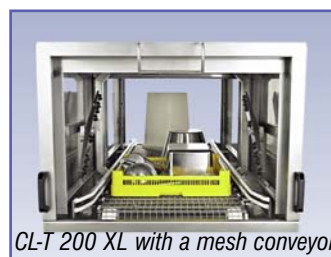
1 person control

Technical data

	CL-T 200	CL-T 200 XL
Dimensions LxWxH mm	3200 x 800 x 2080	3200 x 980 x 2080
Capacity (crates per hour)	150 ÷ 230	220 ÷ 300
Size of washing tunnel WxH mm	460 x 470	650 x 470
Main wash water tank volume in l	150	215
Main wash water heating kW	2 x 6	2 x 6
Main wash water pump connecting power kW	2,7	2 x 2,7
Water consumption in l/hour	480	480
Connecting voltage	3 x 400V/50Hz	3 x 400V/50Hz
Connecting power kW	15	18
Electric fuse A	25	50
Water connection / outlet	1/2 R" / 40 mm	1/2 R" / 40 mm



CL-T 200 XL



CL-T 200 XL with a mesh conveyor



easy access



CL-T 200 standard

Tunnel washing machine for Euro-boxes & palletes



Industrial washing machines CL-T 400, CL-T 600 and CL-T 800

These compact machines are appropriate for cleaning of all kinds off Euro-boxes and Euro-palletes up to 800 mm wide (optionally up to 1000 mm) with a moderate level of dirtiness. Leading poles in the tunnel can be set in the manner that it is possible to wash containers and pallets of different sizes. NIEROS Washing machines are designed as a modularly built system, which can consist of following components:

- Pre-wash or pre-rinse zone
- Main wash zone
- Clean water rinse zone
- Disinfection zone
- Liquid blow off module
- Transport system for boxes

Standard CL-T machine are designed with main wash and rinse zone separated with neutral zone, all other zones are optional.

Water recycling: In the washing part, the cases are washed with hot water. During the washing process, the water is cleaned in the filtration system and is sent back into the main wash water tank, where it is re-heated again and pumped back up with a help of a powerful stainless steel pump. Main wash water is also constantly refreshed with clean hot water coming from rinse zone. Because of water recycling system the water consumption is low - less than 1 Litre per Euro-box.

The boxes are automatically transported through the washing machine with a stainless steel double chain conveyor with variable speed adjustable on the control panel.

Safety: Pumps and heating elements are protected from dry running with multiple sensors. Double filter system prevents dirt entering onto the vital components such as pump and spraying system. Supervisory openings are protected with micro switches.



Water heating with electricity or steam.



Detergent dosing device with concentration control and LCD display.



Double water filter system.



Options:

- Water heating with steam or electricity
- Digital Detergent dosing device with concentration control and LCD display
- Disinfectants dosing device
- One person control and operating
- Steam removal ventilator system
- Stainless steel mesh conveyor
- Rinse options:
 - Non heated water directly from water mains (standard)
 - Directly from water mains with el. flow heaters (2x9 kW)
 - Separate rinse water tank with pump and heating elements

NIEROS are also fabricating washing machines with capacity up to 2000 boxes per hour and special washing machines for live poultry boxes, barrels, special containers, cheese moulds, buckets, chocolate models, etc.

Ask NIEROS experts for various options!



Technical data

	CL-T 400	CL-T 600	CL-T 800
Dimensions LxWxH mm	3900x1460x1770	5400x1460x1770	6400x1460x1770
Size of washing tunnel WxHxL mm	800x450x2500	800x450x4000	800x450x5000
Capacity (crates per hour)	Up to 400	Up to 600	Up to 800
Connecting voltage	3x400V/50 Hz	3x400V/50 Hz	3x400V/50 Hz
Connecting power (electrical/steam)	24kW/6kW	38,5W/11,5kW	42,5kW/15,5kW
Inlet water temperature	45°C ± 5°C	45°C ± 5°C	45°C ± 5°C
Inlet water pressure	3 bar ± 0,5 bar	3 bar ± 0,5 bar	3 bar ± 0,5 bar

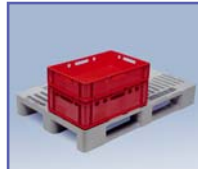
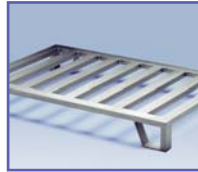
Universal washing machine

Universal washing machine CL-T 2000 Multi

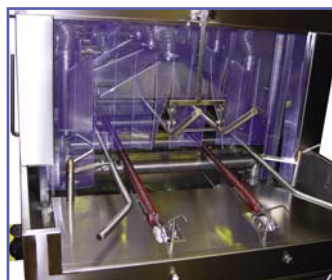
NIEROS CL-T 2000 Multi is a compact machine for all-purpose industrial use. Machine is designed for effective washing of multiple products such as 200 Litre DIN 9797 Trolleys, Euro crates, pallets and different containers. It is a robust and convincing in hard continuous activity. Standard CL-T 2000 consists of following parts:

- Automatical loading device for trolleys
- Pre-wash zone with heated water tank and pump
- Wash zone
- Rinse zone with heated water tank and pump
- Unloading chute

CL-T 2000 Multi can be easily used daily and is equipped with functional details such as SPS control system, wide supervisory openings on sides, double filter system, water recycling system, adjustable nozzles, Digital Detergent dosing device with percentage control and electrical lifting of the carts.



Technical data	
Dimensions LxWxH mm	8500 x 1600 x 2060
Size of the usable washing tunnel WxHxL mm	800 x 710 x 4000
Capacity (crates per hour)	800 Euro Boxes /h or 50 Trolleys or 100 Euro pallets /h
Connecting voltage	400 V, N, PE - 50 Hz
Connecting power	22 kW
Inlet water temperature	45°C ± 5°C
Inlet water pressure	3 bar ± 0,5 bar



Universal liquid blow-off tunnels CL-ABT 200, 600 and 1200

After the cleaning process in the washing machine, the crates, pallets or buggies are still quite wet. Liquid blow off Tunnels are used for removing the remnants off water from the washed equipment. Water is removed with cold air accelerated by powerful electrical ventilators through a sophisticated air knives system. The process removes over 90% of the water remaining after the washing process.

Universal tunnels can be used as self-standing units or as part of the CLT tunnel washing machines. For optimal results, the containers should previously be rinsed with hot fresh water at approx. 85°C, to which the rinse fluid is added through the rinse dosage pump. Available in five sizes – 200, 300, 400-600, 800 and 1200 crates per hour.



Technical data	CL-ABT 200/200XL	CL-ABT 400-600	CL-ABT 800
Dimensions LxWxH mm	1645 x 900/980 x 1570	2700 x 1460 x 1770	2700 x 1460 x 1770
Capacity (crates per hour)	200/300	400/600	800
Connecting voltage	3 x 400V/50 Hz	3 x 400V/50 Hz	3 x 400V/50 Hz
Connecting power (electrical/steam)	4 kW	3,5 kW	5 kW
Recommended to be used with	CL-T 200 and CL-T 200XL	CL-T 400 and CL-T 600	CL-T 800

Utensil washers

Dishwashers CL 8110/8115 and CL 8120/8130

CL series are designed for automatic cleaning and sterilization of crates, pots, knife-baskets, small machine parts and other different objects. Products are simply placed inside a washing machine. Cleaning and sterilization programme are started automatically, after the cover of the machine had been closed.

Course of the programme

The products are washed with water temperature of 45°C with automatic adding of detergent. Washing time can be set to 4, 6 or 8 minutes. After the washing process products are rinsed with fresh hot water at temperature appropriate for sterilization (85°C), which is prepared in a separate reservoir and pumped through a high-pressure pump. Rinse time can be set up to 120 seconds. The washing procedure is carried out with help of a rotating wash arm (models CL 8110 and CL 8115) or with a movable washing frame (models CL 8120 and CL 8130).

Features:

- Self-cleaning programme
- Integrated rinse pump
- Draining pump for emptying the water reservoir
- Micro-switch control panel
- Adjustable water temperature
- Compact dimensions



Options:

- Basket and plates holding frames
- Water tap inside the machine
- Rinse hose

Technical data

	8110	8115	8120	8130
Outlet mm	Ø 40	Ø 40	Ø 40	Ø 40
Connecting voltage	3 x 400V/50Hz	3 x 400V/50Hz	3 x 400V/50Hz	3 x 400V/50Hz
Connecting power kW	10,5	10,5	16,5	17,5
Water connection	R 1	R 1	R 1	R 1
Washing time in minutes	2 / 4 / 6	2 / 4 / 6	2 / 4 / 6	2 / 4 / 6
Washing space LxWxH mm	690 x 635 x 610	810 x 635 x 610	1010 x 635 x 645	1290 x 635 x 645
Main wash water tank volume in l	60l	60l	95l	125l
Rinsing time	20 sec.	20 sec.	15 sec.	20 sec.
Rinse water tank volume in l	13l	13l	13l	25l
Temperature of the rinsing water	85°C	85°C	85°C	85°C
Rinsing time in seconds	20	20	20	20



Cabin washing machines

Washing machine CL-K 200

- Electro-hydraulic loading - unloading system
- Hygienic design
- SPS microprocessor control panel
- Water-driven washing cross with spraying nozzles
- Optimal protection of the loading-unloading area

Optimal cleaning for up to 30 off DIN9797 standard 200 litre buggies per hour. After manual loading of the 200 or 300 litre buggies on the front door and by pressing the start button, the automatic cleaning process is started, including the closing and opening of the doors. Machine has two washing stages - main wash and rinsing. In the main wash stage, the buggy is washed thoroughly from all sides with a help of the water-driven rotating washing arm. Water for main wash stage is prepared in the main wash water tank (heating either with steam or electricity) and pumped through the spraying system. Detergent dosing is percentage controlled and automatic. Standard machine has fresh water rinsing from the water mains.

Washing cycle can be programmed according to the level of dirtiness; it is possible to variably (max. 10 min) set the length of the main stage of washing. At the end of the main cleaning, the remnants of the detergents are removed with fresh water. The duration of rinsing (max. 100 sec.) can be regulated on the control panel. After the cleaning process the front door are automatically opened and the clean containers are taken out of the machine manually.

CLK 2x200 - Duplex

Designed to wash 2 off DIN9797 200 Liter buggies at the same time. Double capacity, less time and space consuming.



Technical data

	CL-K 200 /D	CL-K 200 /E	CL-K 300 /D	CL-K 300 /E
Dimensions LxWxH mm	2950 x 2300 x 2200	2950 x 2300 x 2200	3500 x 2300 x 2200	3500 x 2300 x 2200
Weight in kg	App. 570	App. 550	App. 770	App. 750
Capacity in buggies/h	Up to 30	Up to 30	Up to 30	Up to 30
Connecting voltage	3 x 400V/50Hz	3 x 400V/50Hz	3 x 400V/50Hz	3 x 400V/50Hz
Connecting power	8kW	28kW	10kW	30kW
Protection type	IP 65	IP 65	IP 65	IP 65
Water connection / outlet	R1"/ Ø60 mm tube	R1"/ Ø60 mm tube	R1"/ Ø60 mm tube	R1"/ Ø60 mm tube
Water consumption per buggy	App. 11 l	App. 11 l	App. 11 l	App. 11 l
Inlet water temperature	45°C ± 5	45°C ± 5	45°C ± 5	45°C ± 5
Inlet steam pressure	2-8 bar	/	2-8 bar	/
Steam consumption	App. 30 kg/h	/	App. 30 kg/h	/

Double Filtering: Above the water level, diagonally fastened sieves ensure an effective filtration of the thick dirt particles that collect during the cleaning process. The reason the filter does not need to be cleaned often is the fact that sieve is rinsed regularly with water. Second filter prevents any dirt being sucked into the pump and spraying system.

Options:

- Heated rinsing water tank with a pump
- Rinse aid or disinfectant dosing system
- Steam extraction system
- Protection for loading area with safety net:
 - With safety bar
 - Sensor protected



CL-K 300:

Combi Machine designed for cleaning of DIN9797 200 and 300 Liter buggies.

Cabin washing machines

Washing machine CL-K 800

- Electro-hydraulic loading - unloading system.
- Hygienic design.
- SPS microprocessor control panel.
- Electric driven washing cross with spraying nozzles.
- Optimal protection of the loading-unloading area.

Optimal cleaning of either up to 60 off DIN9797 200-litre buggies per hour or up to 30 off brine tanks (825l), or up to 30 off different sized containers.

After manual loading of the containers on the front door and by pressing the start button, automatic cleaning process is started, including the closing and opening of the doors. Machine has two washing stages - main wash and rinsing. In the main wash stage, containers are washed thoroughly from all sides with a help of the water-driven rotating washing arm. Water for main wash stage is prepared in the main wash water tank (heating either with steam or electricity) and pumped through the spraying system. Detergent dosing is percentage controlled and automatic. Standard machine has fresh water rinsing from the water mains.

Washing cycle can be programmed according to the level of dirtiness; it is possible to variably (max. 10 min.) set the length of the main stage of washing. At the end of the main cleaning, the remnants of the detergents are removed with fresh water. The duration of rinsing (max. 100 sec.) can be



Technical data

	CL-K 800 /D	CL-K 800 /E
Dimensions LxWxH mm	3800 x 2300 x 2500	3500 x 2200 x 2500
Capacity buggies / 825l tanks per hour	up to 60 / 30	up to 60 / 30
Connecting voltage	3x400V/50Hz	3x400V/50Hz
Connecting power	25kW	115kW
Protection type	IP 65	IP 65
Water connection / Water outlet	5/4" / Dz 90 mm	5/4" / Dz 90 mm
Water consumption per cycle	App. 30 l	App. 30 l
Inlet water temperature	45°C ± 5	45°C ± 5
Steam connection	1"	/
Inlet steam pressure	2 ÷ 12 bar	/
Steam consumption	App. 60 kg/h	/

regulated on the control panel. After the cleaning process the front door are automatically opened and the clean containers are taken out of the machine manually.

Double Filtering: Above the water level, diagonally fastened sieves ensure an effective filtration of the thick dirt particles that collect during the cleaning process. Reason the filter does not need to be cleaned often is the fact that sieve is rinsed regularly with water. Second filter prevents any dirt being sucked into the pump and spraying system.

Options:

- Rinsing water tank with a pump
- Rinse aid or disinfectant dosing system
- Steam extraction system
- Protection for loading area with safety net



Cleaning and disinfection

Hygicontrol HC

NIEROS Hygicontrol is an obligatory hygiene station placed between the production area and the social area with automatically hand and footwear disinfection with drip off zone on entry side and walk trough sole or boot cleaner on the exit side. Two turnstile units are controlling the passage and thus guarantee optimal hygiene level of the personnel.

After entering the hygiene station the first stop is the hand disinfectant. Hand disinfection chamber is designed ergonomically with rubber protections to avoid any hand injuries. Furthermore the inside of the disinfection chamber is illuminated with yellow light in order to offer more pleasant feeling by hand disinfection. As person is disinfecting the hands, he or she is standing in a footwear disinfection bath at the same time. In order to prevent the carrying of the disinfectants into the production a drip off zone is installed after footwear disinfection bath. After successful hand disinfection the turnstile unit is released. When leaving the



production over machine exit side, person needs to walk over two 1800 mm long rotating brushes, which remove all the dirt and also disinfect the footwear. All the processes (hand disinfection time, brush rotation time, pouring and re-dosing time of footwear bath, turnstile unit open time, etc.) can be controlled and adjusted on LCD control panel.

Features:

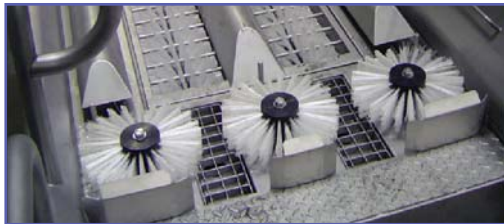
- Ergonomic design
- Completely digitally operated through a front control panel with LCD display
- All containers with chemicals are locked within a stainless steel framework
- Modular construction
- Big capacity (short entry time - 3 to 6 sec. per person)
- Automatic pouring and re-dosing of sole disinfection fluid
- Two stainless steel turnstiles
- Smooth sand-blasted finish



Cleaning and disinfection

Hygicontrol with vertical brushes for boot washing HC/V70

In harder industrial conditions the cleaning of footwear with two horizontal brushes at production exit is not enough. In slaughterhouses or in other high dirt areas additional cleaning and disinfection of footwear (shoes or boots) sides is required.



Option:
vertical
brush



With its combination of two shorter horizontal brushes and three vertical brushes up to 30 cm high on exit side, Hygicontrol HC/V70 is a perfect solution for such productions. Entry side is the same as by HC model.

Technical data

	HC	HC/V70
Dimensions L x W x H mm	2630 x 1650 x 1550	2630 x 1950 x 1550
Horizontal brushes dimensions mm	Ø 190 x 1800	Ø 190 x 1338
Vertical brushes dimensions mm	/	Ø 250 x 70
Protection type	IP65	IP65
Water inlet / outlet	3/4" / DN50	3/4" / DN50
Connecting voltage	3 x 400V/50 Hz	3 x 400V/50 Hz
Connecting power	0,55 kW	1,3 kW
Order No.	2550-102	2550-103

Hygicontrol HC/XL

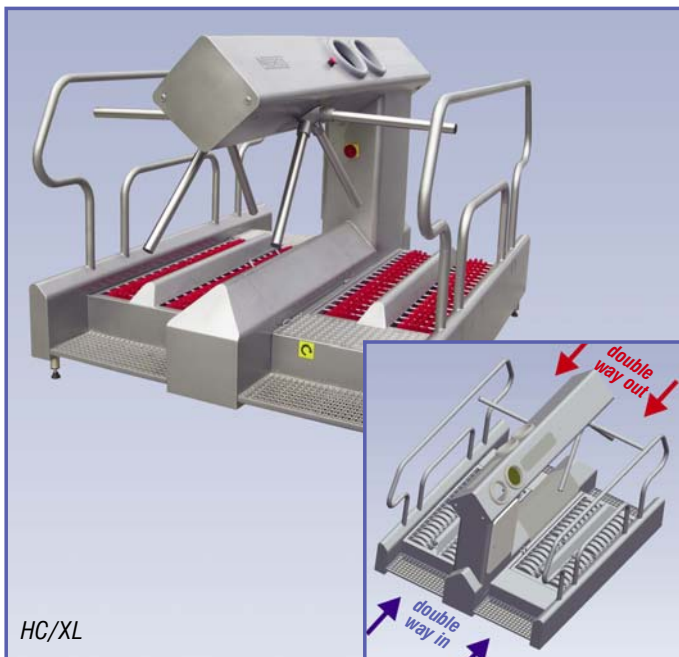
A high efficiency machine with double entrance/exit. Two people can use the machine at the same time either in entry or exit direction, which doubles the standard inlet capacity. Compact dimensions allow it to be fitted into narrow corridors.

Functions:

- Two hand disinfection units and
- Two walk-through footwear brush cleaners

Technical data

	HC/XL	HC/XXL
Dimensions L x W x H mm	2000 x 1650 x 1550	3140 x 2890 x 1550
Horizontal brushes dimensions mm	Ø 190 x 1210	Ø 190 x 1340
Vertical brushes dimensions mm	/	Ø 250 x 70(300)
Order No.	2550-104	2550-105



HC/XL

Hygicontrol HC/XXL

The design of the Hygicontrol HC/XXL station was based on the standard Hygicontrol HC. Super Hygicontrol has the same features and functionality, but with double entrance sides allowing it double inlet capacity.

Functions:

- Two hand disinfection units
- Two footwear disinfection pools at each entrance
- One walk-through footwear brush cleaner and
- Optional boot side cleaning brushes at each exit

Features:

- Available with vertical boot cleaning brushes (70 or 300 mm)
- Optimal control through 2 PLC controllers at each entrance
- Can be linked to automatic soap dispensers and hand washing machines or time attendance and access control systems.



HC/XXL

Cleaning and disinfection

Hygicontrol compact HC/C

- Small in size, big in function! -

Hygi control compact has same functions and features as larger Hygicontrol HC (page 12), but with compacter overall dimensions, therefore making this unit is ideal for smaller hallways or rooms.

Features:

- Ergonomic design
- Front control panel with LCD display
- All containers with chemicals are locked within a stainless steel framework
- Modular construction
- Big capacity (short entry time - 3 to 6 sec. per person)
- Automatic pouring and re-dosing of sole disinfection fluid
- Two stainless steel turnstiles
- Soft rubber protection on hand disinfectant and yellow lights inside for more pleasant and safer hand disinfection
- Compact dimensions
- Smooth sand-blasted finish

Technical data HC/C

Dimensions L x W x H mm	1770 x 1650 x 1500
Brushes dimensions mm	Ø 190 x 855
Connecting voltage	3 x 400V/50Hz
Connecting power	0,55 kW
Protection type	IP 65
Water inlet / outlet	3/4" / DN50
Order No.	2550-101



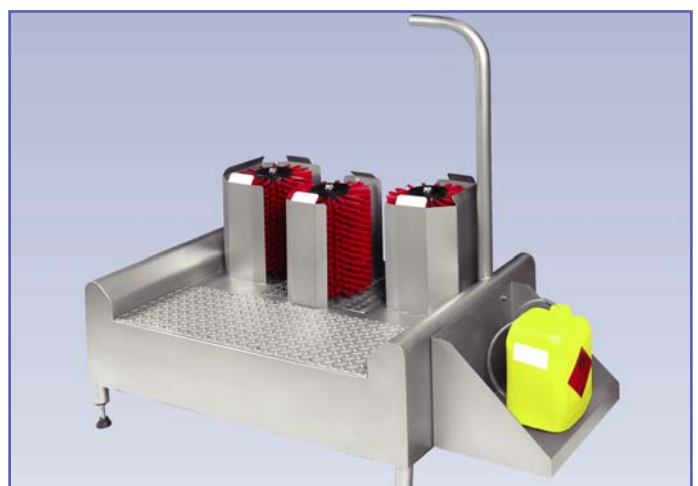
Hygicontrol compact can be upgraded with an automatic walk-through boot washer DR/V300 and access control with time attendance system.

Automatic walk-through boot cleaner DR/V300

Robust and functional construction ensures a quick and thorough cleaning of boots with the minimum energy consumption. The machine can be used independently or in combination with HC, HC/C, URK or DR hygiene stations.

Function: DR/V300 boot cleaner has three vertical rotating brushes, which ensure a quick and easy cleaning of the soles and edges of the boots. Rotation of the brushes is started by pushing the switch on the holder. Disinfectants are added automatically through an adaptable dosing system, which sprays disinfectants mixed with water onto the brushes.

Cleaning and maintenance of the sole-cleaner is simple and easy, you can change the brushes without any tools.



Technical data DR/V300

Dimensions L x W x H mm	1015(1300) x 960 x 1220
Connecting voltage	3 x 400V/50 Hz
Brushes dimensions (ver./hor.) mm	Ø 250 x 320
Connecting power	0,75 kW
Protection type	IP65
Water inlet / outlet	3/4" / DN50
Order No.	2550-504

Cleaning and disinfection

Time&Space System

All Hygiene stations can be upgraded with Time&Space Access control and work attendance system. Time&Space is complete access control and business timekeeping solution for any modern organization. Its flexible and scalable personal identification infrastructure provides robust physical security platform. Once implemented, it can be combined with comprehensive scheduling, tracking of working hours and detailed attendance calculations required by Payroll and other Human Resources applications (HR).

Why use the Time&Space System on NIEROS Hygicontrol Stations?

- Measurement of working time and attendance closer to your production – you know exactly when a worker had a break or visited the toilet. This enables you to calculate the real time of work and the time spent on breaks.
- Access control and complete traceability of the workers and

visitors – This feature enables you to keep exact evidence of who entered or exited your production and how long they have stayed there.

- Simple and efficient software – you can access and manage the collected data in Windows like environment with a possibility of adding additional Modules



Hygicontrol UDK

Compact hygiene point placed between the production area and other areas within a factory, with an automatic disinfection of footwear and hands at entrance in the production. Disinfection chamber with protective rubber rings is lighted with soft yellow light designed for more pleasant feeling by disinfection procedure. The turnstile unit allows entrance only to people who have successfully completed the disinfection procedure and thus guarantees perfect hygiene. Compact dimension make this unit usable everywhere.

Features:

- Disinfectant container is placed inside the machine and closed with a locked door
- Signal lights (green and red)
- All process parameters can be adjusted on internal microprocessor controller
- Automatic dosing of footwear disinfection liquid



UDK with access and time attendance control system



UDK/W upgraded with automatic soaping and hand-wash unit

Technical data

	UDK	UDK/W
Dimensions L x W x H mm	1600 x 960 x 1190	1910 x 954 x 1305 mm
Connecting voltage	230V /50 Hz	230V /50 Hz
Connecting power	0,2 kW	0,3 kW
Protection type	IP65	IP65
Water inlet / outlet	DN50	DN50
Order No.	2550-201	2550-201-001

Cleaning and disinfection

Hygicontrol URK

The URK family of two way passage hygiene stations with hand disinfectant, walk-through footwear cleaner and turnstile unit, has all the elements needed for 100% hygiene control in your factory. These compact machines can be set up in the smallest corridors and hallways.

Function: When entering the production area, the hand sanitizing process is obligatory in the hand disinfection chamber, which is ergonomically designed with rubber protectors to avoid any hand injuries. After successful hand disinfection the turnstile unit is released and when leaving the station the footwear is cleaned and disinfected by the rotating brushes. When leaving the production area in the other direction, the turnstile unit is always open and a sensor activates the rotating brushes, which remove all the dirt and disinfect the footwear at the same time.

The basic URK machine can be upgraded with:

- Automatic soaping and hand-wash unit (such as URK/W)
- Vertical brushes for cleaning of boot sides (such as URK/WV300 or URK/V70)



URK (left)



URK/V70 (left)



URK/WV70 (left)



URK/WV300 (right)



URK/W (right)

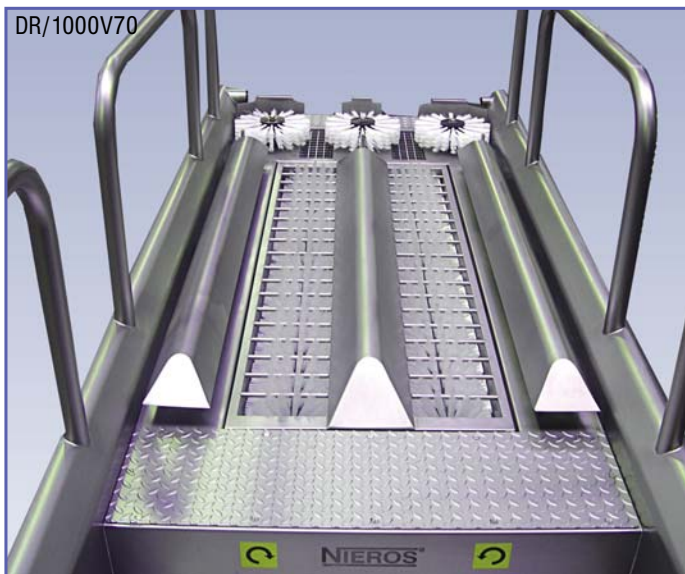
Technical data

Available in five versions	URK	URK/V70	URK/V300	URK/W	URK/WV300
Dimensions L x W x H mm	1810x960x1630	2600x1290x1650	2600x1290x1650	2610x975x1600	2605x1290x1650
Horizontal brushes dimensions mm	Ø 190 x 1020	Ø 190 x 1338	Ø 190 x 1338	Ø 190 x 1800	Ø 190x1340
Vertical brushes dimensions mm	/	Ø 250 x 70	Ø 250 x 300	/	Ø 250x300
Connecting voltage	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Connecting power	0,7 kW	1,3 kW	1,3 kW	1,3 kW	1,3 kW
Protection type	IP 65	IP 65	IP 65	IP 65	IP 65
Water inlet / outlet	3/4" / DN50	3/4" / DN50	3/4" / DN50	3/4" / DN50	3/4" / DN50
Order No.	2550-251(left) / 2550-252(right)	2550-257	2550-257-001	2550-254	2550-255

Cleaning and disinfection

Walk-through sole cleaning machine DR

Robust construction with smooth sandblasted surface and round edges designed for fast and un-disturbing sole cleaning in both directions - entry and exit from the production. Available in different lengths with either two sole cleaning brushes or with additional three vertical boot cleaning brushes (70 or 300 mm high). Automatic dosing system for detergent and disinfectants installed. All interior construction parts are reachable over the top service cover and brushes can be changed without using any tools.



3

Technical data DR

		Model	Brushes length	L x W x H mm	Order No.
Connecting voltage	3 x 400 V / 50 Hz	DR/1000	2 x Ø 190 x 1020 mm	1770 x 750 x 1460	2550-402
Connecting power	0,5 kW	DR/1400	2 x Ø 190 x 1365 mm	1900 x 750 x 1460	2550-404
Protection type	IP 65	DR/1800	2 x Ø 190 x 1800 mm	2600 x 750 x 1460	2550-406
Water inlet	3/4"	DR/2300	2 x Ø 190 x 2300 mm	2900 x 750 x 1460	2550-408
Water outlet	DN50	DR/1000V70	2 x Ø 190 x 1338 mm 3 x Ø 250 x 70 mm	2600 x 1290 x 1650	2550-410



Boot cleaner SR/FB

Compact cleaning machine with automatic sole cleaning rotating brush and manual brush for boot edges cleaning. With installed pump for detergent dosage. Delivered ready to be installed.

Technical data SR/FB

Dimensions L x W x H mm	1100 x 630 x 1200
Brush dimensions mm	Ø 200 x 300
Connecting voltage	3 x 400 V / 50 Hz
Connecting power	0,25 kW
Protection type	IP 65
Water inlet / outlet	3" / DN50
Order No.	2550-502-002

Cleaning and disinfection

Optimal hand hygiene

Optimal hygiene of hands is crucial for assuring high levels of hygiene in your production facilities. Perfect hand cleaning starts with soaping of hands and rinsing under running water and, as a precaution, disinfecting hands with alcohol based products at the end of the process.

A four step procedure is necessary:



1. Automatic soaping



2. Washing under running water



3. Intensive drying of hands with paper towels

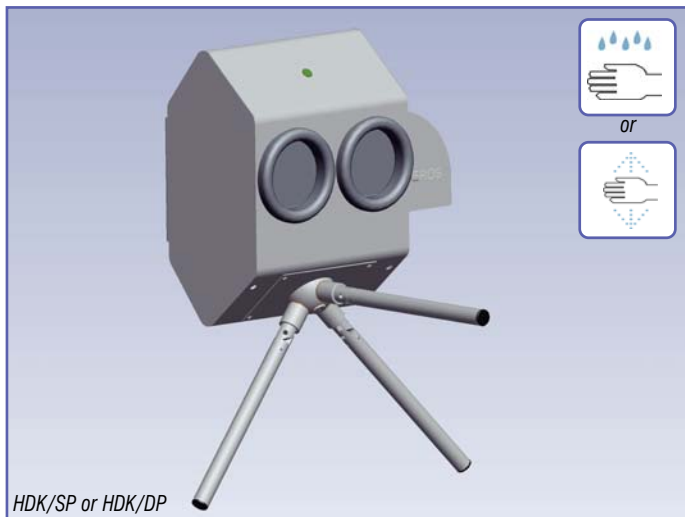


4. Disinfection of hands

The above steps can be attained in individual machines or integrated into one machine.

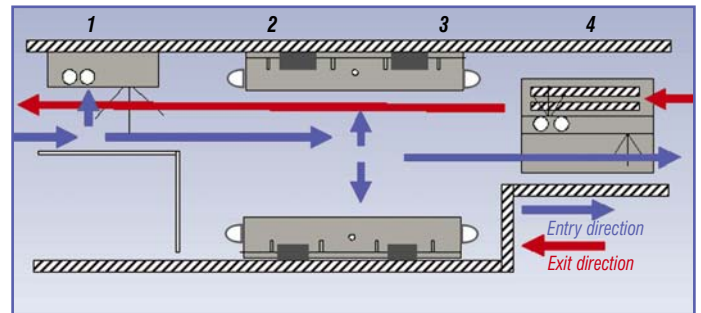
Soap guard HDK/SP

An automatic soap dispenser unit with integrated turnstile for controlling entrance. The unit is activated only when both hands are placed inside the hand openings. After the successful soaping process, the turnstile is released and the person can proceed to the washing-trough for hand cleaning under running water. Available as a wall mounted or floor mounted model.



Automatic soaping of hands with access control - SOAP GUARD

Perfect hand cleaning starts with soaping of hands and subsequent rinsing under running water. Implementation of automatic soap dispenser units with access control assures that people wash their hands when entering the production area.



NIEROS recommend a four-step procedure:

1. Automatic soaping in Soap Guard unit HDK/SG or HDK/SP
2. Washing under running water in washing trough WR
3. Intensive drying of hands
 - paper dispenser HSP + paper basket PK
4. Disinfection of hands in hand disinfectant HDK/DG, HDK/DP or in any Hygicontrol station



Technical data

	HDK/SP	HDK/SF	HDK/SG
Installation	Wall mounted	Floor Mounted	Floor Mounted
Dimensions	710 x 1080 x 880	710 x 1080 x 1400	1460 x 900 x 1115
Voltage	230V/50Hz	230V/50Hz	230V/50Hz
Power	0,3 kW	0,3 kW	0,3 kW
Protection	IP65	IP65	IP65
Outlet	/	/	DN50
Order No.	2550-353	2550-354	2550-351

Cleaning and disinfection

Automatic hand washer H/W

This floor mounted unit can be used everywhere hand cleaning is obligatory - in production, hygiene control points, toilettes, etc. This unit can be used as a self standing unit or in combination with any other hygiene station, hand disinfectant, electric door locks or turnstile units.

Function: After sensor activation, yellow lights light up the washing chamber. A person needs to put his/her hands into the openings and soap is sprayed onto both hands automatically. After 3-5 seconds the warm water starts spraying from two sides and hands are thus rinsed. After the washing process hands need to be dried with a paper towel.

Automatic hand washer

	H/W	H/WD
Dimensions L x W x H mm	675 x 365 x 1170	800 x 365 x 1170
Connecting voltage	230 V/50 Hz	230V/50Hz
Connecting power	0,2 kW	0,3 kW
Protection type	IP65	IP65
Water inlet / outlet	2x1/2" / DN50	2x1/2" / DN50
Order No.	2550-302	2550-305



H/WD

Features:

- Otherwise same features as Hand disinfectant H/D
- Option: Hand washer can be upgraded with hand disinfection function and integrated paper basket and paper towel dispenser - H/WD.

Hand disinfectant H/D



H/DP

Ensures easy and quick hand disinfection when entering the production area. The spraying of disinfectants is activated only when both hands are placed inside the hand openings, which are protected with soft rubber rings in order to prevent any injuries. Disinfection chamber is lighted with soft yellow light designed for more pleasant feeling by disinfection procedure. After successful disinfection a signal is given either to turnstile unit or electric lock in a door, which prevent entry without disinfecting the hands.

Available either as a floor mounted or as wall mounted version with or without integrated turnstile.

Features H/D:

- Disinfectant container is placed inside the machine and closed with a locked door
- Signal lights (green and red)
- Hand protection and disinfection chamber lighting
- All process parameters can be adjusted on internal microprocessor controller



H/D

Technical data

	H/D	H/DP
Dimensions W x D x H mm	675 x 365 x 1170	400 x 240 x 890
Connecting voltage	230V/50Hz	230V/50Hz
Connecting power	0,2 kW	0,2 kW
Protection type	IP65	IP65
Water outlet	DN50	/
Order No.	2550-301	2550-304

Cleaning and disinfection

All in one hand hygiene solution HDK/WDG

Perfect machine for assuring optimal hand hygiene in productions where only hand hygiene needs to be controlled. Machine has two pairs of openings and integrated turnstile in order to increase the inlet capacity.

HDK/WDG utilizes following functions:

- Automatic soaping and hand washing under running water - first pair of holes
- Intensive drying of hands with paper towels from dispenser and disposing into paper basket (optional)

Technical data HDK/WDG

Dimensions L x W x H mm	2110 x 356 (920) x 1135
Connecting voltage	230V/50Hz
Connecting power	0,5 kW
Protection type	IP65
Water inlet / outlet	2 x 1/2" / DN50
Option	hot water heater 10L
Order No.	2550-358

- Disinfection of hands - second pair of holes
- Access control with integrated tripod turnstile unit



Tripod turnstile DK

Tripod turnstile for automatic control of workers passage - electronically controlled from a control device (Hand disinfectant, access card reader, etc.). Completely made of stainless steel DIN 1.4301. Equipped with electric anti-panic function, which allows people going in or out in case of emergency (fire, electrical blackout, etc.).

Technical data DK

	Wall mounted	Floor mounted
Dimensions L x W x H mm	670 x 940 x 430	670 x 895 x 1180
Connecting voltage	24 V	24 V
Protection type	IP65	IP65

Functions:

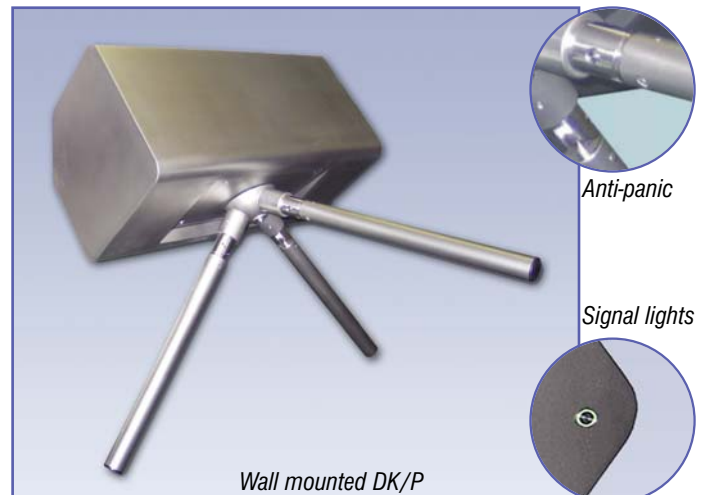
Installation side looking from entry

A1B2 or A2B1	Left or right
A3B2 or A2B3	Left or right
A3B1 or A1B3	Left or right
A3B3	Left and right
A4B1 or A1B4	Left or right
A4B2 or A2B4	Left or right
A4B4	Left and right

1 - always open, 2 - always closed, 3 - electrically controlled, 4 - electrically controlled with anti-panic function. A - Entrance, B - Exit

Options:

- Anti-panic
- Signal lights



Cleaning and disinfection

Boot cleaner SR/V300

Robust and functional construction ensures a quick and thorough cleaning of the boot with the minimum energy consumption. One horizontal and two vertical rotating brushes ensure a quick and easy cleaning of the soles and edges of boots. Rotation of the brushes is started by pushing the switch on the holder. Dispersion system sprays detergent and water over the boots simultaneously. Adaptable venturi system dosage pump adds detergents. Brushes can be changed without using any tools.

Technical data SR/V300

Dimensions L x W x H mm	935 x 775 x 1350
Brushes vertical/horizontal mm	Ø310 x 320 / Ø180 x 465
Connecting voltage	3 x 400V/50Hz
Connecting power	0,75 kW
Protection type	IP 65
Water inlet / outlet	3/4" / DN50
Order No.	2550-503



Clog cleaner SR/C

Sturdy and functional construction ensures a quick and thorough cleaning of clogs with minimum energy consumption. The clog cleaner is activated by pressing on a sensor in its handle. Two rotating brushes - one for cleaning the sole and a second for the upper part of the clog - offer fast and automatic clog cleaning. An adjustable dosing system automatically sprays detergent and disinfectants onto the brushes and clogs. Brushes can be changed easily, without use of any tools. The clog-cleaner is delivered ready to be installed.

Technical data SR/C

Dimensions L x W x H mm	760 x 775 x 1215
Connecting voltage	3 x 400V/50Hz
Connecting power	0,55 kW
Protection type	IP 65
Water inlet / outlet	3/4" / DN50
Order No.	2540-505



Sole cleaner SR

A compact cleaning machine designed for fast and efficient cleaning of soles in smaller productions or other smaller high-risk hygiene areas. Thorough mechanical cleaning of the soles begins by activating a sensor on the handle. The detergent and disinfectant dosage is added automatically through an adjustable venture dosing system. Brushes can be changed without use of any tools. The machine is delivered ready to be installed.

Available in two versions: Floor or wall mounted.

Technical data SR

Model	Wall mounted SR/P	Floor mounted SR/F
Dimensions L x W x H mm	500 x 610 x 1250	500 x 610 x 1200
Brush dimensions mm	Ø200 x 350	Ø200 x 350
Connecting voltage	3 x 400V/50Hz	3 x 400V/50Hz
Connecting power	0,25 kW	0,25 kW
Protection type	IP 65	IP 65
Water inlet / outlet	3/4" / DN50	3/4" / DN50
Order No.	2550-502	2550-501



SR/F

Cleaning and disinfection

Apron cleaning machine SWM

Its strong and functional construction ensures the quick and thorough cleaning of aprons with minimum energy and time consumption. Two horizontal rotating brushes ensure the quick and easy cleaning of aprons. The brushes begin rotating when a person approaches the machine and two activation sensors are triggered. The dispersion system sprays detergent and water over the brushes simultaneously. An adjustable dosage device adds detergents. The cleaning and maintenance of the apron-cleaner is simple and tools are unnecessary to change brushes. The apron-cleaning device is ready to be installed.

Features:

- Chemical containers are placed inside of the machine
- Adaptable dosing system
- Safety rail on the top to prevent any accidents
- Distance adaptable proximity sensors for activation
- Easy and simple brush cleaning and changing



Technical data SWM

Dimensions L x W x H mm	1985 x 410 x 880 mm
Connecting voltage	3 x 400V / 50 Hz
Brushes mm	Ø 154 x 1273
Connecting power	0,55 kW
Protection type	IP65
Water inlet / outlet	3/4" / DN50
Order No.	2550-551



SWK/R

Apron and boot washing cabin SWK

For washing aprons, boots and other small objects (buckets, etc.). After the aprons are hung, dirt is cleaned off using a manual handheld brush with a water valve. The stainless steel wash area includes side screens, a built-in wash tub with a separate board for boots, a gridiron-style grate, and is equipped with lateral hooks to assist with the tightening of aprons. Handheld washing brushes with a water valve can be connected separately, if desired, and are used for both apron cleaning and boot cleaning. Can be upright or fastened to a wall.



SWK



SWK/XL

Also available as apron and boot washing cabin with automatic sole cleaner SWK/R - upgraded with automatic boot sole cleaning with a motor driven rotating brush with automatic addition of detergents and disinfectants (adjustable).

Technical data SWK

L x W x H mm	Spaces	Outlet	Type	Order No.
1300 x 680 x 1700	1	DN50, left	SWK	2550-560
2300 x 650 x 1700	2	DN50, left	SWK/XL	2550-570
1210 x 650 x 1700	1	DN50, left	SWK/R	2550-565

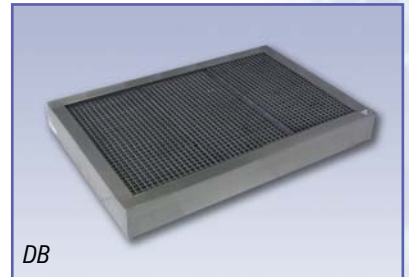
Cleaning and disinfection

Walk-through footwear disinfection basin DB

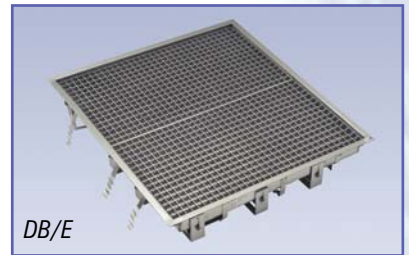
This basin is set at the entrance into a production area, forcing entrants to step into the basin and disinfect their footwear. The level of disinfecting fluid is above the anti slipping gridiron styled grates. The basin is equipped with a water outlet and gridiron style grates (L class). Option: a walk-through basin can be delivered with an overflow valve.

Available in two versions:

- Built-in model without a drip off zone DB/E
- Floor mounted with drip off zone to eliminate excess disinfectants DB



DB



DB/E

Technical data DB

L x W x H mm	Model	Outlet	Type	Order No.
852 x 800 x 200	Built-in	DN100	DB/E	2016-080
1340 x 890 x 170	Floor mounted	DN50	DB	2016-120



MB

Knife sterilizer MB and axes sterilizer BB

Small and effective knife and axe hot water sterilizer designed for the sterilization of 5 knives up to 200 mm long (Model MB) or three axes (Model BB). This sterilizer can be used in all food processing industries. Features: double wall construction, adjustable thermostat, on/off switch and heater burnout protection. The sterilizer can be mounted on the wall or near hand-wash basins.

Technical data

Type	MB	BB
Basin dimensions (L x W x H) mm	150 x 110 x 250 mm	323 x 180 x 530 mm
Overall dimensions (L x W x H) mm	200 x 200 x 490 mm	374 x 270 x 730 mm
Water connection	10mm pipe connection	10mm pipe connection
Water outlet	25mm overflow pipe	25mm overflow pipe
Connecting power	1000W	2000W
Connecting voltage	230 V / 50 Hz	230 V / 50 Hz
Adjusting and protection	Thermostat with burn-out protection	Thermostat with burn-out protection
Order No.	2510-030-001	2510-908

Saw, axe & knife sterilizer MBS

For sterilization of saws, axes and knives in meat-processing companies. Polyethylene-coated in order to prevent any damage. Sterilizing depth 273 mm (473 mm by model MBS 47), water temperature 85°C (adjustable +/- 3°C), thermostat and heater burnout protection.

Technical data

Type	MBS27	MBS47
Dimensions (L x W x H)	224 x 660 x 800 mm	224 x 790 x 800 mm
Water connection	Ø 1/2"	Ø 1/2"
Water outlet	Ø 3/4"	Ø 3/4"
Connecting power	3000W	3000W
Connecting voltage	230 V / 50 Hz	230 V / 50 Hz
Order No.	2510-015	2510-035

Option: Knife holder,
Order No. 2510-016



Cleaning and disinfection



Knife basket sterilizer MK

A strong and functionally designed knife basket sterilizer that enables quick and thorough knife and knife basket using minimum time and energy consumption. Available in two sizes: for 5 (10) or 15 (30) large (small) knife baskets. Water temperature 85°C (adjustable +/- 3°C), thermostat and heater burnout protection.

Technical data

Type	MK10	MK30
Dimensions (L x W x H)	770 x 450 x 810 mm	920 x 1190 x 1115 mm
Water connection	Ø 1/2"	Ø 1/2"
Water outlet	Ø 1/2"	Ø 1/2"
Connecting power	6 kW	10 kW
Connecting voltage	230 V / 50 Hz	3 x 400 V / 50 Hz
Water temperature	85°C +/- 3°C	85°C +/- 3°C
Protection type	IP65	IP65

Utensil washers 8110 and 8115

Big in capacity, small in space consumption. For washing and disinfection.

These machines are designed for automatic cleaning and sterilization of knife-baskets, small machine parts (for example, cutter knives) and other objects. The knife-baskets and baskets for other objects are simply placed into a knife basket holder frame inside the washing machine. The cleaning and sterilization programme is started automatically, after the cover of the machine had been closed.



Options:

- Knife basket and plates holding frames
- Water tap inside the machine
- Rinse hose

Features:

- Self-cleaning programme
- Integrated rinse pump
- Draining pump for emptying the water reservoir
- Micro-switch control panel
- Adjustable water temperature
- Compact dimensions

Technical data

	8110	8115
Water connection / outlet	1/2" / Ø 40mm	1/2" / Ø 40mm
Connecting voltage	3x400V / 50Hz / 8,5kW	3x400V / 50Hz / 9,5kW
Washing space LxWxH	690 x 635 x 610mm	810 x 635 x 610mm
Washing time	1-12'	1-12'
Water consumption - rinsing	App. 5l	App. 5l
Rinse water temperature	App. 85°C	App. 85°C



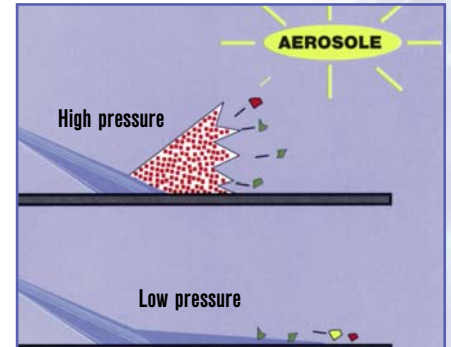
Course of the programme

Items are washed with a water temperature of 45°C with automatic adding of detergent. The washing time can be set to 4, 6 or 8 minutes. After the washing process products are rinsed with fresh hot water at temperature appropriate for sterilization (85°C), which is prepared in a separate reservoir and pumped through a high-pressure pump. Rinse time can be set up to 120 seconds. The washing procedure is carried out with help of a rotating wash arm.

Low pressure foam cleaning

Why NIEROS low pressure foam cleaning systems?

Aerosols - small, floating water particles can carry bacteria that pollute surfaces after the cleaning process. The modern production process is inevitably linked with expensive and sensitive computer-managed plants and instruments. With our low pressure foam cleaning systems, machines stay protected. With the use of NIEROS low pressure foam cleaning systems, aerosol pollution is prevented.



How can I work systematically with the low pressure foam cleaning system?

Pre-rinsing:	removal of thick soiling with the low pressure water jet
Foam cleaning:	when a surface is treated with the foam, obstinate soil is loosened
Rinsing:	rinsing with clean water
Disinfection:	disinfection of the cleaned surface



Low pressure main stations

Main stations are plants that provide pressurised water to additional satellite locations or to take away points. The main stations are connected to a water source, compressed air and a 3-phase electric current. The no-maintenance, self-greasing centrifugal pump produces the necessary water pressure for satellite stations. The user can combine central or peripheral main stations with or without housing and with or without built-in satellite stations.



4

Equipment and extras for main and satellite stations:

- Lances, rinsing hoses, spray jets, cleaning tanks up to 100 litres
- Alloy steel hose winder for wall-fastening, available for up to 35m of hose length
- Mobile trolley for keeping the rinsing hose, lance and spray jet - with or without the satellite station



Peripheral satellite

The satellite stations are supplied with pressurised water from a low pressure plant. With a simple switch on the valve, the user can choose between foam cleaning, rinsing and disinfection. Also available without the disinfection function.

Do you need more information?

Just call our number.

Our experts are ready to help!

Hand-wash basins

Hand-wash basins with knee or sensor activation HWB

A compact series of hand-wash basin in stainless steel 1.4301, with super brushed surface. Its back side includes a 25 mm border.

Available in two versions - with a proximity sensor (Model HWB/S) or knee push valve activation (Model HWB/K) in different sizes. The lowest operation water pressure is 0.8 bar (1,5 bar HWB/S). Water flow time interval and water temperature are adjustable.

The hand wash basin is delivered ready to be installed. Wall mounted version.



Versions			
Type	Dimensions (W x D x H mm)	Dimensions of the hand-wash basin mm	Order No.
HWB Knee	400 x 320 x 240	340 x 240 x 150	9410-112
HWB Knee	470 x 410 x 240	370 x 340 x 150	9410-110
HWB Knee	550 x 450 x 270	500 x 310 x 150	9410-111
HWB Sensor	400 x 320 x 240	340 x 240 x 150	9410-105
HWB Sensor	470 x 410 x 240	370 x 340 x 150	9410-102
HWB Sensor	550 x 450 x 270	500 x 310 x 150	9410-103

Technical data	
Water outlet	DN50
Water connection for cold water	R 3/8"
Water connection for hot water	R 3/8"
Connecting voltage (HWB/S)	230V / 50 Hz
Protection type (HWB/S)	IP65

Hand-wash basins water flow activation possibilities

All NIEROS Hand-wash Basins BW2 and Trough-type basins WR series are available with three possibilities of water flow activation:

Knee activation – water flow is activated by pressing the activation valve positioned on the front side of the Hand-wash basin with a person's knee.



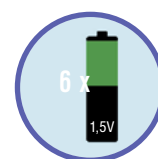
Sensor activation – water flow is activated by moving your knee in the range of a proximity sensor positioned on the front side of Hand wash basin. Available in two executions:



- 24V Sensor operated version – Hand-wash basin is connected to 230V powersupply, but all internal components (such as sensor, water soleonid valve, etc.) operate with 24V power supply, which results in higher safety.



- 9V Battery operated version – no mains electrical connection is required to operate the Hand-wash basin. Six standard 1,5V Batteries provide the necessary power to activate the microprocessor, proximity sensor and water soleonid valve. No additional expensive electrical wiring is needed and the basin can be connected anywhere where water is available.



Features:

- Electrical current is supplied with 6 standard 1.5V Batteries
- Very small power consumption - 55 µA
- Battery life time - almost 2 years with an average of 200 operations per day
- Adjustable distance of IR proximity switch activation (up to 400 mm)
- Overflow protection

Battery life time		
Operations / day	El. current consumption / day	1000 mAh Battery
100	1,46 mAh	685 days
200	1,60 mAh	625 days
400	1,88 mAh	532 days

Hand-wash basins

Hand-wash basins type BW2 and BW2/F

Made of stainless steel DIN 1.4301. Welded model with chrome-plated water spout with jet regulator placed on the top of the stable backsplash. Available in three executions: sensor operated (24V connected to el. mains and 9V battery operated) or knee push valve. Basins are delivered ready to be installed, without PVC water outlet piping.

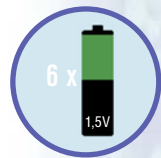
Available as a wall mounted version BW2 or a floor mounted version BW2/F on strong stainless steel pedestal – ideal for mounting on a panel wall.

Technical data BW2 and BW2/F				
Type	Overall dimensions (W x D x H mm)	Dimensions of the hand-wash basin mm	Operation	Order No.
BW2/B	500 x 450 x 240/685	420 x 340 x 175	Sensor	2520-139
BW2/24V	500 x 450 x 240/685	420 x 340 x 175	Sensor	2520-131
BW2/K	500 x 450 x 240/685	420 x 340 x 175	Knee	2520-132
BW2/FB	500x450x240/685/1305	420 x 340 x 150	Sensor	2520-138
BW2/F 24V	500x450x240/685/1305	420 x 340 x 150	Sensor	2520-137
BW2/FK	500x450x240/685/1305	420 x 340 x 150	Knee	2520-136

Technical data	
Water outlet	DN50
Mixing valve connection for cold water	R 1/2"
Mixing valve connection for hot water	R 1/2"
Electrical connection	230V / 50 Hz
Protection type	IP65
Internal voltage	24V



BW2



All Hand-wash basins type BW2 can be equipped with different accessories such as:

- Holder for paper towels HSP or PRH
- Knife sterilizer MB
- Paper basket PK CNS
- Universal dispenser USP-E



BW2/F



Washing troughs and extras

Washing troughs and extras

Made of stainless steel 1.4301, with 2, 3, 4, 5 or 6 washing spaces. Stable and strong construction - casing 1.25 mm thick. Wall mounted model equipped with a water mixing valve (35°C to 65°C), chrome-plated water spout with jet regulator and central outlet. Delivered ready to be installed, without PVC outlet piping.

Available in three executions: sensor operated (24V connected to el. mains and 9V battery operated) or knee push valve.

Available as a wall mounted version WR or a floor mounted version WRD, designed with two support – ideal for mounting on panel walls. WRD Washing Trough series can be delivered as a single side or double side execution (WRD/2S - up to 12 washing spaces).

Technical data	
Water inlet:	2 x R 1/2"
Water outlet:	DN50, central
Electrical connection:	230 V / 50 Hz
Connecting power:	10 VA per washing space
Guidance voltage:	24V
Protection type:	IP 65



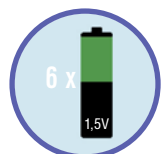
WR

Technical data WR and WR/K			
Type	Dimensions (L x W x H mm)	Operation	Order No.
WR2 (/K)	1000 x 535 x 666	Sensor (knee)	2530-021 (2530-022)
WR3 (/K)	1500 x 535 x 666	Sensor (knee)	2530-037 (2530-038)
WR4 (/K)	2000 x 535 x 666	Sensor (knee)	2530-053 (2530-054)
WR5 (/K)	2500 x 535 x 666	Sensor (knee)	2530-061 (2530-062)
WR6 (/K)	3000 x 535 x 666	Sensor (knee)	2530-071 (2530-072)



WRD

Technical data WRD and WRD/2S			
	Dimensions (L x W x H mm)	Operation	Order No.
WRD2 (/K)	1000 x 535 x 1347	Sensor (knee)	2530-023 (2530-024)
WRD3 (/K)	1500 x 535 x 1347	Sensor (knee)	2530-039 (2530-040)
WRD4 (/K)	2000 x 535 x 1347	Sensor (knee)	2530-055 (2530-056)
WRD5 (/K)	2500 x 535 x 1347	Sensor (knee)	2530-063 (2530-064)
WRD6 (/K)	3000 x 535 x 1347	Sensor (knee)	2530-073 (2530-074)
WRD4 /2S (/K)	1000 X 1070 X 1347	Sensor (knee)	2530-371 (2530-372)
WRD6 /2S (/K)	1500 X 1070 X 1347	Sensor (knee)	2530-387 (2530-388)
WRD8 /2S (/K)	2000 X 1070 X 1347	Sensor (knee)	2530-403 (2530-404)
WRD10 /2S (/K)	2500 X 1070 X 1347	Sensor (knee)	2530-415 (2530-416)
WRD12 /2S (/K)	3000 X 1070 X 1347	Sensor (knee)	2530-425 (2530-426)



All Washing Troughs type WR can be equipped with different accessories such as:

- Holder for paper towels HSP or PRH
- Knife sterilizer MB
- Paper basket PK CNS
- Universal dispenser USP-E



WRD/2S

Universal dispensers

Universal dispenser type USP/E

Front plate equipped with a lock and filling level pointer for prevention of the unauthorized operating with the storage reservoir. Delivery includes a wall fastening kit and a reservoir 1000 ml. Material of housing and pump - stainless steel.

Universal dispenser type USP/P

Delivery includes a wall fastening kit and a reservoir 1000 ml. Material - stainless steel and PVC.



Technical data USP

Type	Dimensions (L x W x H mm)	Order No.
USP/E	98 x 90 x 325 mm	9490-106-B
USP/P	98 x 90 x 325 mm	9490-106



Paper towel holder type HSP 600

Made of stainless steel 1.4301, appropriate for all ordinary towels, with protection from spraying water. Front plate removable for easier refilling. Equipped with filling level pointer. Designed for 600 towels sized 95 x 230 mm.

Holder for paper towels in rolls type PRH

Made of stainless steel 1.4301, designed for round paper rolls (available in two sizes) with protection from spraying water and detachable side cover for easy refilling, and with a clogged system for easier towel tearing.



Technical data HSP 600

Type	Dimensions (L x W x H mm)	Order No.
HSP 600	170 x 270 x 350	2590-934
PRH 100	186 x 382 x 170	2590-922
PRH 300	356 x 330 x 355	2590-921

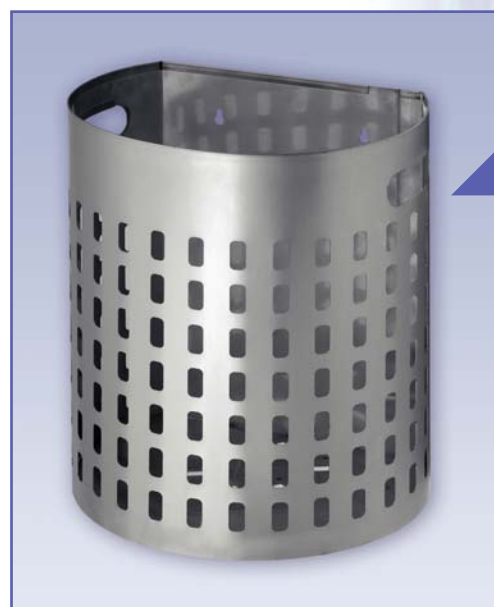


Paper basket type PK

Made of stainless steel 1.4301 and useful in various ways, such as for fastening to the hand-wash basin, washing through or to the wall. Volume 32l.

Technical data PK

Type	Dimensions (L x W x H mm)	Order No.
PK	280 x 352 x 420	2590-500



Refuse sack holder ABF/SW

The stand is appropriate for hanging of 120 l rubbish bin bags (size 700 x 1100 mm). With heavier rubbish, it is recommended to use additional support plate for height regulation (optional). The rubbish bag is rolled over the holder and protected with a rubber band. The lid is opened using an elbow lever. Made of stainless steel 1.4301.

Technical data ABF/SW, without adjustable support

Dimensions (L x W x H mm)	Type	Order No.
500 x 485 x 150	ABF-SW 120	2590-201

Equipment for ABF/SW

Model	Dimensions mm	Type	Order No.
Adjustable support plate for height regulation	Ø 400 x 810	ABF/SWZA	2590-203



ABW-SW with ABF-SWZA



Refuse sack holder ABF/SF

Model with a stable base and foot operation for lid opening. The stand is appropriate for free hanging 120 l rubbish bags (size 700 x 1100 mm). With heavier rubbish, it is recommended to use additional support plate for height regulation (optional). The rubbish bag is rolled over the holder and protected with a rubber band. The lid is opened using a foot control.

Technical data ABF/SF, without adjustable support

Dimensions (L x W x H mm)	Type	Order No.
510 x 415 x 960	ABF/SF 120	2590-301

Equipment for ABF-SF

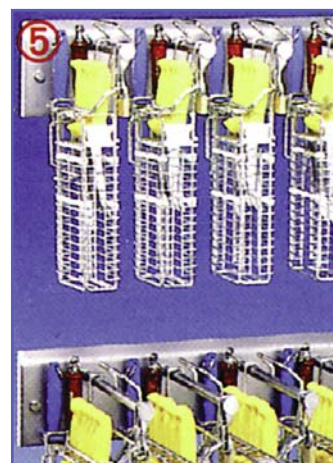
Model	Dimensions mm	Type	Order No.
Adjustable support plate for height regulation	Ø 400	ABF/SWZA	2590-204

Knife baskets MK

Enables safe transport, maintenance and sterilization of up to 10 knives, 2 grindstones and 1 pair of gloves. The baskets are made of electrolyte polished stainless steel 1.4301. Can be closed with a lock.

Technical data MK

Photo	Dimensions	No. of knives/steel	Type	Order No.
1	140 x 85 x 320	2 / 2	MK A 22	9418-000-3
2	180 x 115 x 475	4 / 2	MK B 42	9418-000-1
3	180 x 120 x 475	4 / 2 / 1	MK C 421	9418-000-2
4	360 x 115 x 475	7 / 2 / 1	MK D 721	9418-001-1
5	Wall holder for MK B 42		WHL MK 42	9418-008



Apron wardrobes

For quick and simple apron, boot and helmet storage; in stainless steel 1.4301. Available as a wall mounted or ceiling mounted model.



Helmet and apron wardrobes

Model	Dimensions (L x W x H mm)	No./ places	Types	Order No.
To be fastened to the wall	1120 x 560 x 580	15	SHGW 15	2545-425
To be fastened to the ceiling	1120 x 410 x X (depending on the height of the room)	10	SHGD 10	2545-450

Plank with hooks

Model	Dimensions (L x W x H mm)	No./ places	Types	Order No.
To be fastened to the wall	1000 x 50 x 56	5	W 100/5	2545-431
	2000 x 50 x 56	10	W 200/10	2545-433
	3000 x 50 x 56	15	W 300/15	2545-435

Apron drying locker SZTC

The locker is designed for safe drying and storage of up to 40 Aprons. Aprons are placed on special holders which can be retracted for easier hanging of aprons. The locker is equipped with perforated doors, vent holes and a lock.



Technical data SZTC

Dimensions (L x W x H mm)	1380 x 600 x 2400
No. of aprons	40 pieces
Order. No	2545-919

Apron drier SZT

Compact apron drying frame with hangers for drying and storage of aprons. Made of stainless steel 1.4301. Available in two versions, floor mounted and wall mounted, with different sizes for 10, 20 and 35 apron hangers.

Technical data HL-SZT

Model	Spaces	Dimensions mm	Types	Order No.
Floor mounted	10	1200 x 1000 x 1960	SZT10	2545-405
Wall mounted	10	1130 x 550 x 400	SZTW 10	2545-902
Wall mounted	20	2180 x 550 x 400	SZTW 20	2545-908
Wall mounted	35	3950 x 550 x 400	SZTW 35	2545-905



Boot dryers

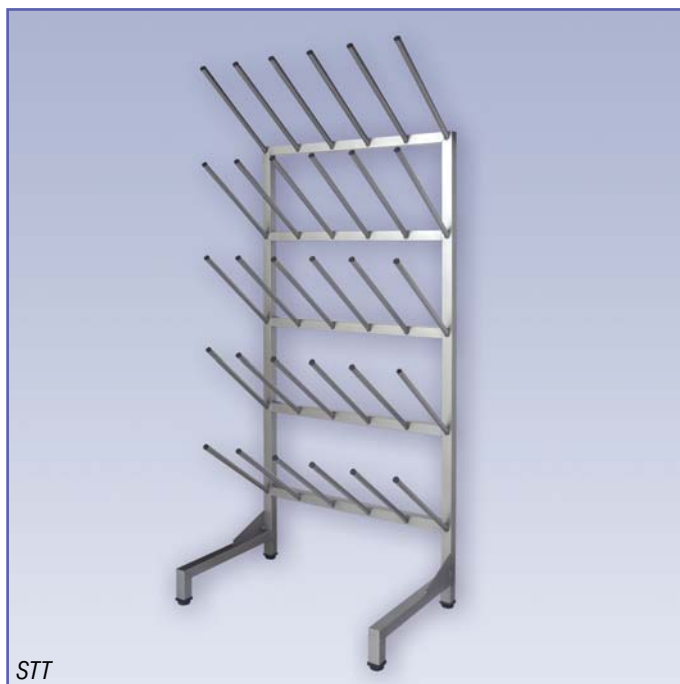
For the storage, drying and disinfection of all types of boots and shoes. Designed for comfortable and functional professional use. Available in three executions:

Boot storage rack STT

The framework and base in stainless steel 1.4301. The framework made of 30-mm rectangular pipe, boot holder made of round pipes. The basic variant for drying of 5 to 40 pairs (40 up to 60 pairs with double version).

Technical data STT

Model	Types	Dimensions mm	Order No.
10 pairs	STT10	520 x 700 x 2050	1085-010
15 pairs	STT15	840 x 700 x 2050	1085-015
20 pairs	STT20	1160 x 700 x 2050	1085-020
25 pairs	STT25	1480 x 700 x 2050	1085-025
30 pairs	STT30	1800 x 700 x 2050	1085-030
40 pairs	STT40	2440 x 700 x 2050	1085-040



STT

Boot dryer HSTT

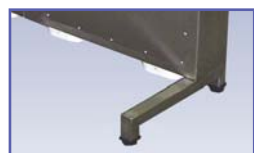
Outside cold air is lead over into a fan and through an electrical heater. Warm air circulates through the inside of humid shoes and dries them. The drying time is adjustable.

Technical data HSTT

Capacity	Type	Dimensions mm	Order No.
10 Pairs	HSTT10	640 x 500 x 2200	1087-010
15 Pairs	HSTT15	840 x 500 x 2200	1087-015
20 Pairs	HSTT20	1120 x 500 x 2200	1087-020
25 Pairs	HSTT25	1400 x 500 x 2200	1087-025
30 Pairs	HSTT30	1700 x 500 x 2200	1087-030

Options:

- Ionizer
- Parfum dosing device



HSTT

Boot drying cabinet HST

The hot air boot dryer is integrated inside a stainless steel cabinet with sliding doors and a dustproof slanting top. It is designed for drying and safe storage of 30 pairs of boots.



HST

Technical data HST

Dimensions (L x W x H mm)	1680 x 800 x 2560
No. of aprons	30 pairs
Order. No	1087-910

Wardrobes

Cleaner's locker APS

The locker (or cupboard) is designed for the storage of cleaning detergents and cleaning equipment. Made from stainless steel with a dustproof slanting top, four adjustable shelves or an additional broom compartment. Ventholes in the door and at the bottom of the locker for proper ventilation.

Technical data APS

Photo	Dimensions L x W x H mm	Type	Material	Order No.
1	500 x 500 x 2160/2300	APS-AB 0102	Stainless steel	9405-026
2	500 x 500 x 2160/2300	APS-AB 4002	Stainless steel	9405-021



Individual wardrobes KSE

Wardrobes for storage of helmets, aprons and boots. Ventholes in the door for proper ventilation. Made from stainless steel with a dustproof slanting top, internal partition so work clothes are separate from other clothing, and adjustable plastic legs ensure stability on uneven surfaces. Additional options include one or two doors, perforated doors, benches, locks, etc.

Options: Lock with fitting for padlock, lock with key, coat hook and coat rail, bench, perforated doors (10 x 10 mm).

Technical data KSE

Dimensions L x W x H mm	Type	Material	Order No.
500 x 500 x 2160/2300	KSE-AB 9001	Stainless steel	9405 - 104



Locker KSD

Locker designed for the storage of helmets, aprons, knife baskets and boots. Equipped with a bench, perforated doors for better air circulation, a dustproof slanting top, and 30 cm high adjustable legs for easier cleaning.

Technical data KSD

Dimensions L x W x H mm	Type	Material	Order No.
500 (750) x 950 x 2400	KSD-AB 2101	Stainless steel	9405 - 110



Product range

Trend products

Tables, wardrobes, chairs, storage systems
Trolleys, containers, mixing troughs
Wall and corners impact protection systems
Lift and tilt devices
Ham presses
Special purpose machinery

Waste water handling systems

Floor drains
Breakthrough tubes
Box-type gutters
Slotted-type gutters
Floor square drains
Gridiron and web-style grates

Doors and protection elements

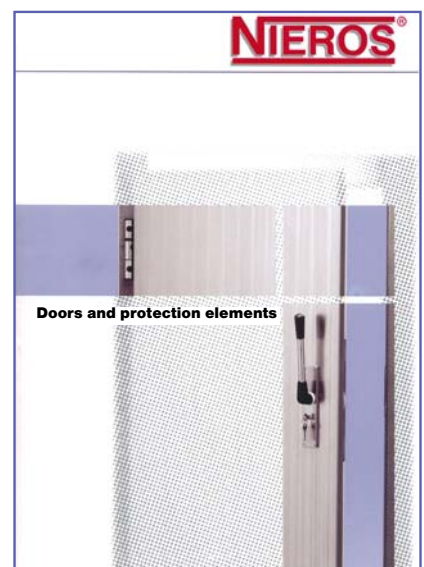
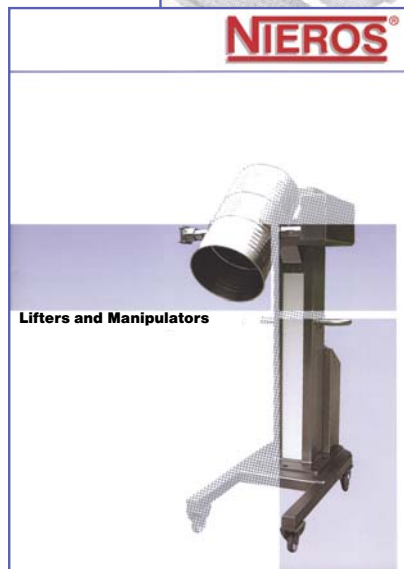
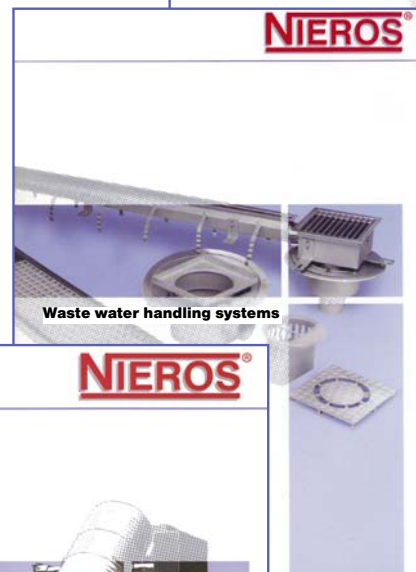
Stainless steel and polyethylene doors
Hinged, sliding and swing doors
Workshop doors
Cold storage room doors
Deep freeze storage room doors

Bins, tanks & containers

Milk coolers, pasteurizers
Different containers for pharmaceutical, chemical and food processing industries
Pressure containers with TÜV certificate
Insulated containers with heating or cooling function

Lifters and manipulators

Manual Single-column Lifters
Electric and Pneumatic Single-column Lifters
Hydraulic and Pneumatic Lifting and Tilting Devices
Conveyor Systems
Hand Pallet Truck Range





NIEROS®

www.NIEROS.com

NIEROS Metal

Tovarna opreme d.o.o.

Gmajna 55

SLO-2380 SLOVENJ GRADEC

Tel.: +386 (0)2 88 27 100

Fax: +386 (0)2 88 44 078

e-mail: info@nieros.si

<http://www.nieros.com>

NIEROS

Stainless Steel Equipment GmbH

St. Avolder Strasse 156B

D-66740 SAARLOUIS

Tel.: +49 (0) 68 31 48 810 0

Fax: +49 (0) 68 31 48 810 50

e-mail: info@nieros.de

<http://www.nieros.com>

Distributor:

