

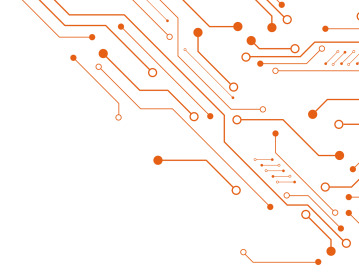


HyperCLEAN II

Config Guide

Updated March 2025

Plan 04



TOP AND
BOTTOM SPRAY



TRACEABILITY



HOT AIR
DRYER



OSCILLATION



AUTOMATION



MES
CONNECTIVITY

Automatic cleaning machine

High-capacity maintenance cleaning

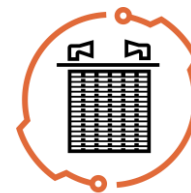
Single chamber Spray-In-Air technology



PALLETS



MAGAZINES



FILTERS

Features

- SINGLE Basket or DOUBLE Basket
- Large Chamber for High Capacity
- Quick & Easy Loading with Pushcart
- Rapid Wash and Rinse
- Fast Drying
- Basket Oscillation (Short version only)
- Short Cycle Time
- Low Operational Costs
- Convenient Maintenance

Machine chamber

SHORT

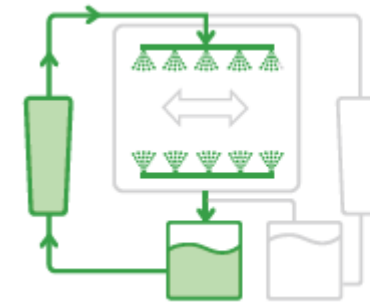
- SHORT version can be equipped with an oscillation mechanism
- Uses SHORT version of the pushcart, basket, and nozzle arms
- Perfect for PCBs and pallets

LONG

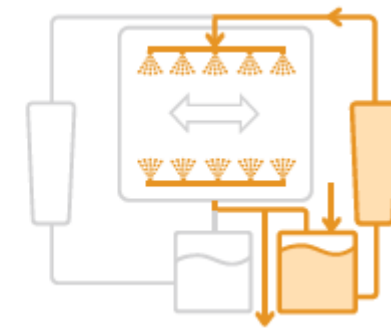
- Oscillation not possible for LONG
- Uses LONG version of the pushcart, basket, and nozzle arms
- Perfect for big intercoolers and large components

Applications

- Cleaning of soldering pallets, soldering frames, coating pallets
- Cleaning of magazines
- Degreasing of mechanical parts
- High-capacity maintenance cleaning



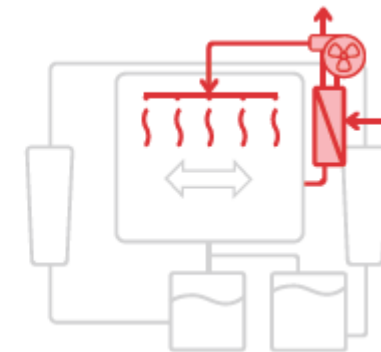
Wash



Chemical stop*



Rinse



Drying

| | MECHANICAL FILTERS | | | |
|---------------|--------------------|---|-----------------------|---|
| | Wash | | 1 st Rinse | |
| HyperCLEAN II | 3 | stainless steel 320 µm 20" length | 3 | stainless steel 320 µm 20" length |

* Integral part of Rinse process.

Removes debris and residues of wash medium from cleaned components before the Rinse begins.

Lowers contamination of Rinse water and prolongs durability of mechanical filters.

Increases safety of the cleaning process.

Base

VM-00003635-X

HyperCLEAN

- Cleaning chamber with backlight
- Recuperation unit
- Drying fan with heating up to 110°C
- Signal tower
- Touch display
- Mechanical filtration in 2 stainless steel filters (6x 20" stainless steel filter cartridge, porosity 320µm)



Power Supply

VM-00001722-X

Power Supply HyCL II 230V/400V AC, 50/60Hz

- Switchboard, electrical wiring, safety units
- PLC
- Control system with touchscreen HMI
- For power supply other than 230V/400V AC, 50/60Hz, insulation transformer is necessary

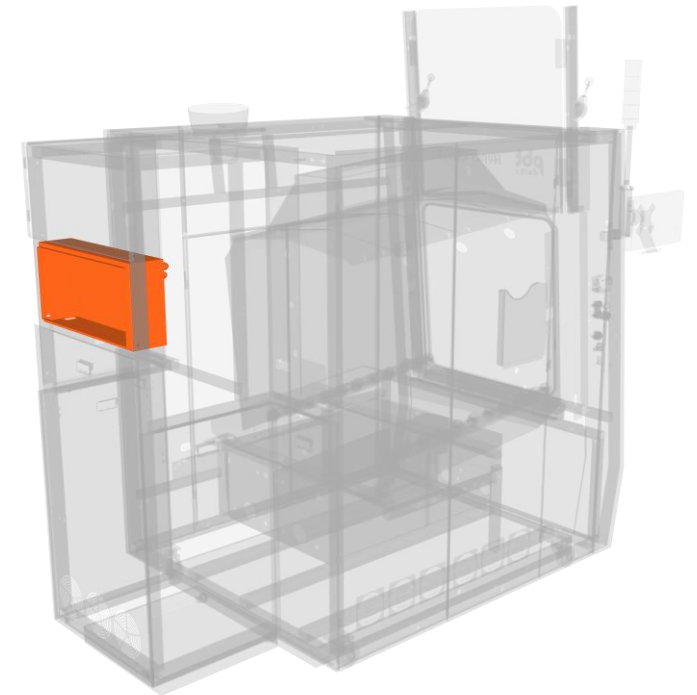


Pneumatic distribution box

VM-00002971-X

Pneumatic Distribution box HyCL II

- Pneumatic system for air-powered components



Liquid system

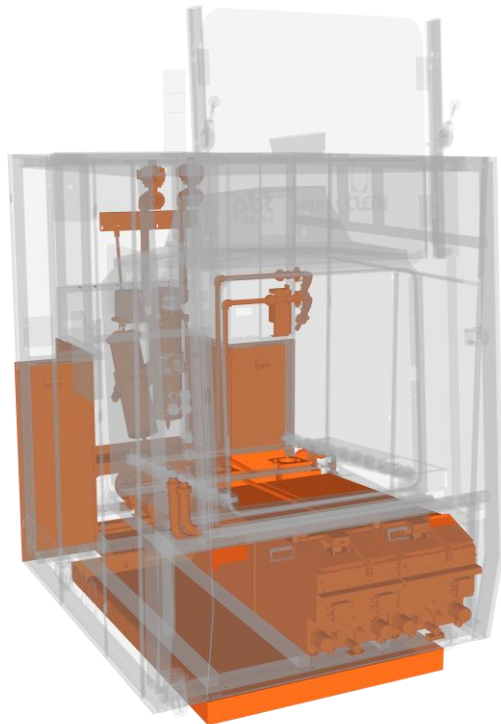
VM-00001745-X

Liquid System HyCL II 50Hz

- Wash tank and rinse tank of capacity 114L each
- Pump and piping for each tank
- Heating elements
- Level and temperature sensors
- Emergency spillage tray with sensor
- Chemical stop

VM-00003149-X

Liquid System HyCL II 60Hz



Door

VM-00001871-X

Manual glass door HyCL

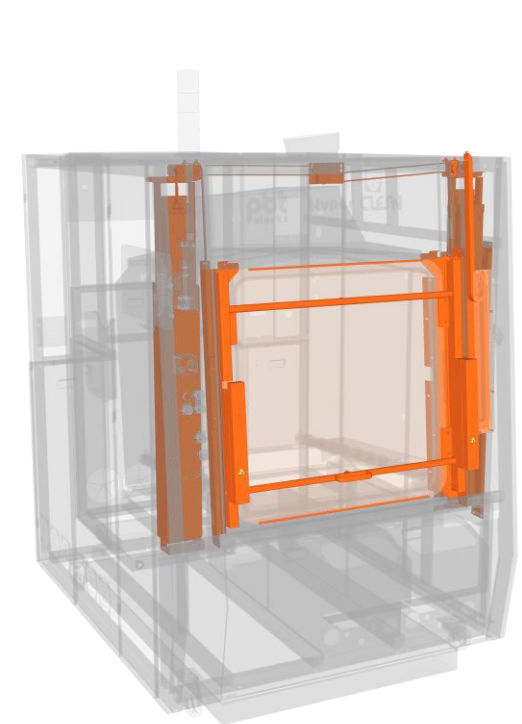
- Manually operated glass door
- Safety lock system



VM-00001765-X

Automatic glass door HyCL

- Automatically operated glass door
- Safety lock system



Oscillation

VM-00010822-X

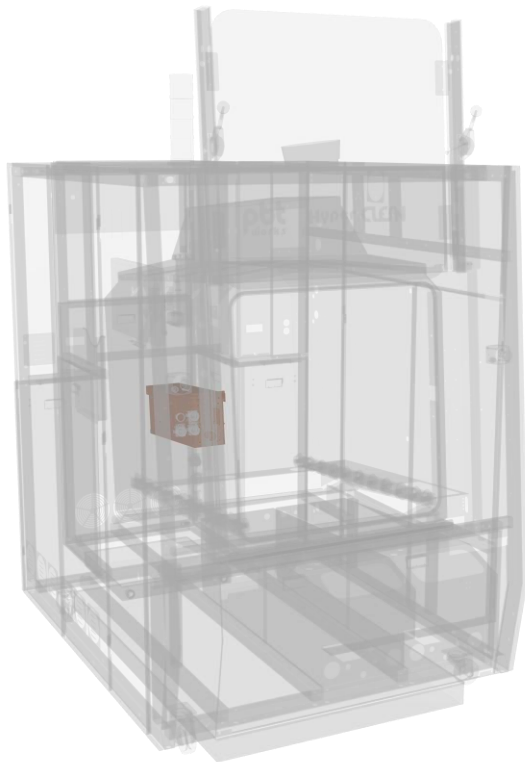
Oscillation for SHORT

- For SHORT configuration only - SHORT pushcart
- Improves efficiency of the cleaning process by moving the basket back and forth
- Allows to reach areas, which are hardly accessible due to shadowing

VM-00001791-X

Without Oscillation

- To be selected if no oscillation is required



Ventilator

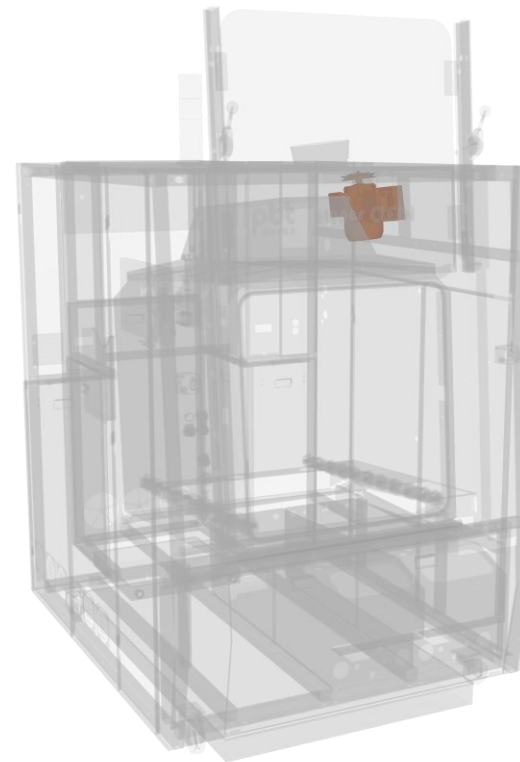
VM-00001762-X

Drying Ventilator 50Hz

- Powerful fan helps to decrease drying times

VM-00001764-X

Drying Ventilator 60Hz

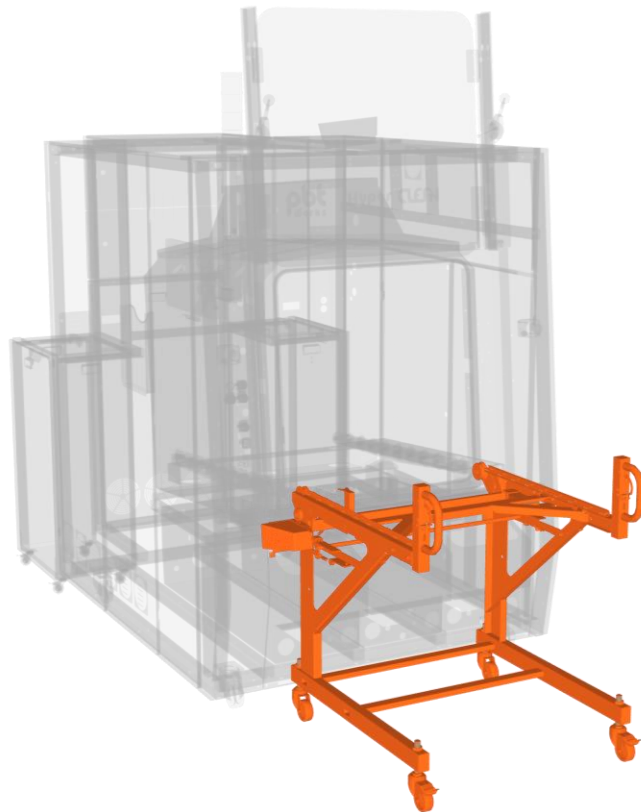


Pushcart loading

VM-0000966-X

Manual pushcart loading SHORT with pneumatic docking

- SHORT pushcart with pneumatic lock
- Equipped with sensors detecting presence of the pushcart in the docking position using pneumatic valves for locking the pushcart to the machine
- Unlock button to be found on the main screen monitor



VM-00009484-X

Manual pushcart loading LONG with pneumatic docking

- LONG pushcart with pneumatic lock
- Equipped with sensors detecting presence of the pushcart in the docking position using pneumatic valves for locking the pushcart to the machine
- Unlock button to be found on the main screen monitor

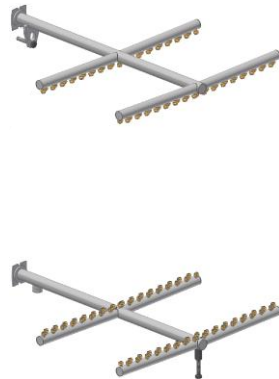
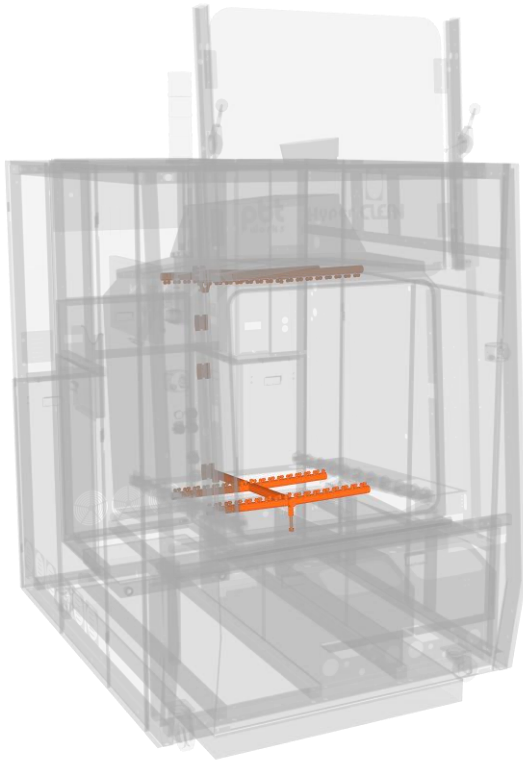


Nozzle arms SHORT

VM-00001998-X

Spray nozzles COMBO 1 SHORT

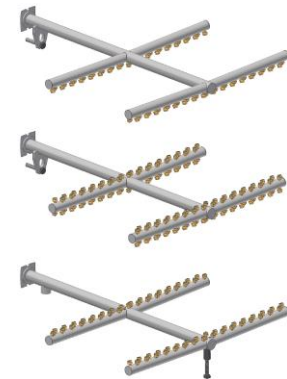
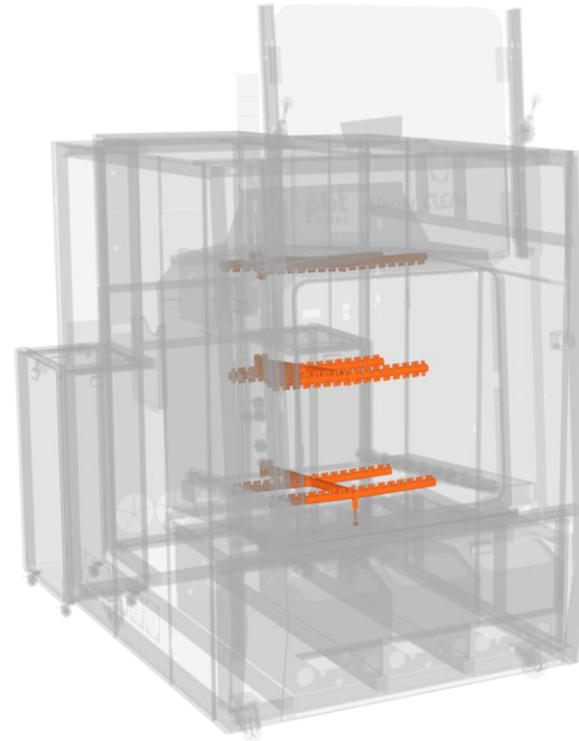
- Upper and lower spray nozzle arms SHORT



VM-00000829-X

Spray nozzles COMBO 2 SHORT

- Upper, middle and lower spray nozzle arms SHORT

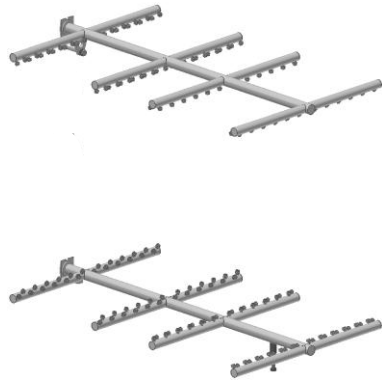
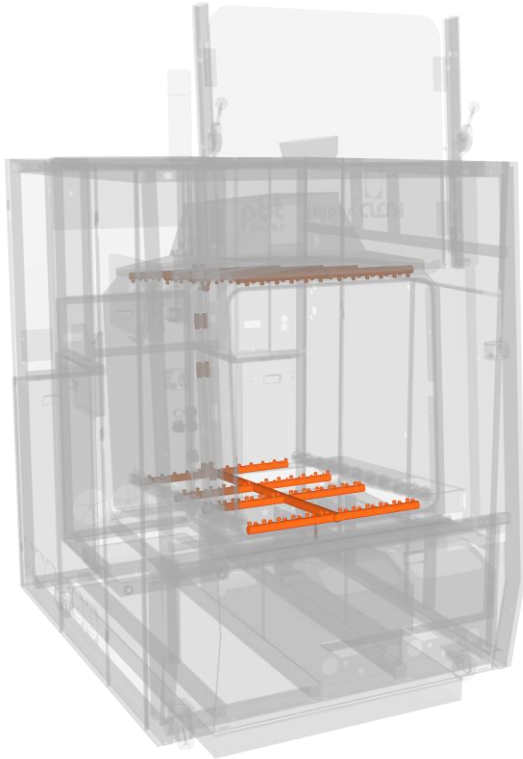


Nozzle arms LONG

VM-00001997-X

Spray nozzles COMBO 1 LONG

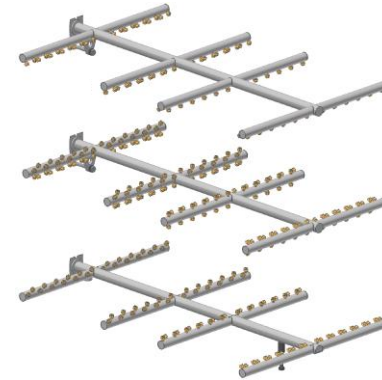
- Upper and lower spray nozzle arms LONG



VM-00001999-X

Spray nozzles COMBO 2 LONG

- Upper, middle and lower spray nozzle arms LONG



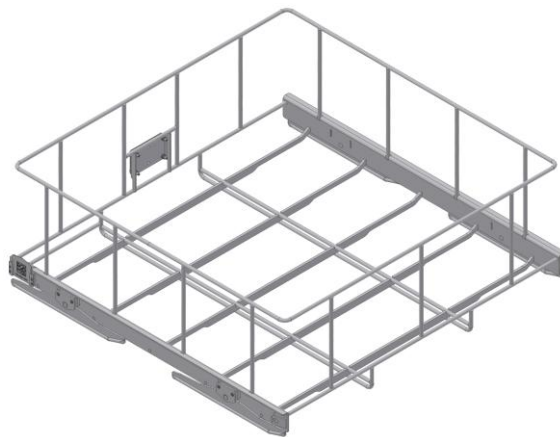
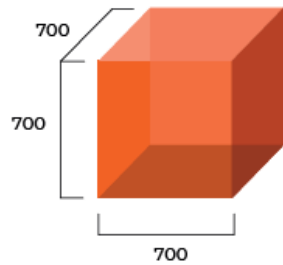
Basket

VM-0000912-X

Basket holder SHORT

- Usable space of basket 700x700x700 mm
- Oscillation is possible with this basket
- Max load for SHORT is 50 kg incl. basket and clamping

Standard clamping usable space

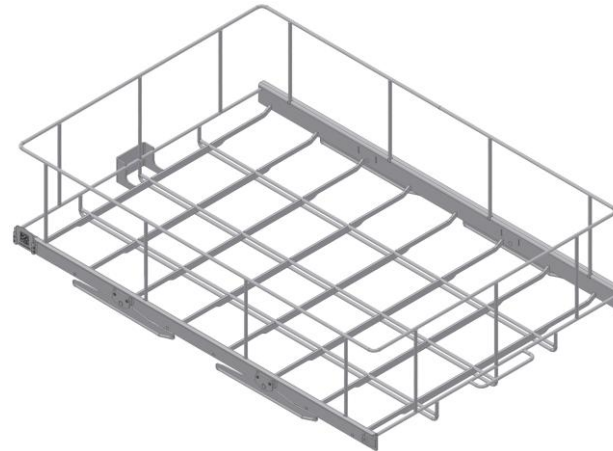
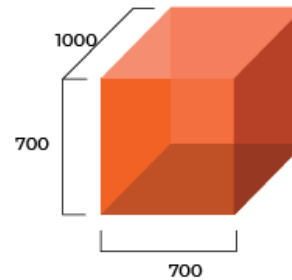


VM-00002307-X

Basket holder LONG

- Usable space of basket 700x1000x700 mm
- Oscillation is not possible with this basket
- Max load for LONG is 100 kg incl. basket and clamping

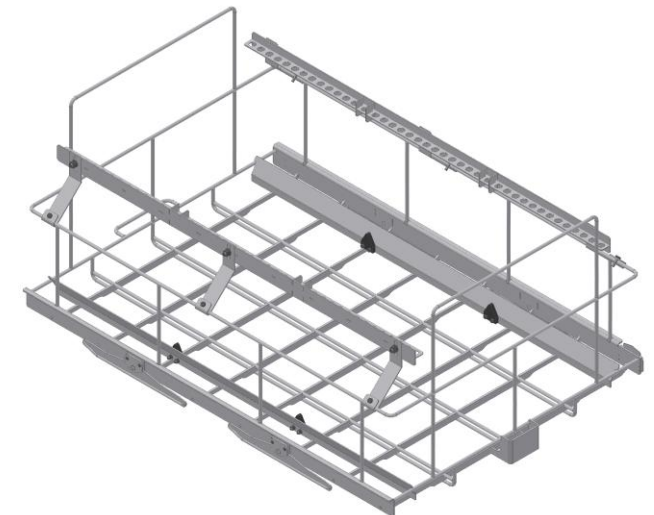
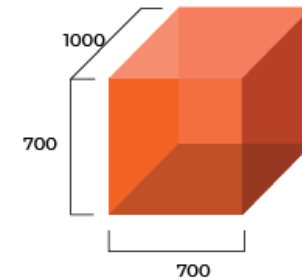
Standard clamping usable space



VM-00002311-X

SMT magazines holder LONG

- Usable space of basket 700x1000x700 mm
- Oscillation is not possible with this basket
- Max load for LONG is 100 kg incl. basket and clamping



Extra cart

VM-00000929-X

Extra pushcart SHORT with pneumatic docking

- Additional pushcart



VM-00014301-X

Extra pushcart LONG with pneumatic docking

- Additional pushcart



Traceability

VX-0000025-X

Traceability XML ONLINE HyCL

- Keeps track of cleaned items as well as all program parameters and detailed information about the cleaning cycle
- XML files provides background for further machine processing and data analysis
- IR handheld 2D code scanner, SW licence

VM-00001576-X

Traceability XML ONLINE prep kit HyCL

- Preparation kit for later retrofitting of XML Online Traceability

```

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```

```

5:07:13 PM: MAIN_MODULE: You have to scan a batch before starting the process.
5:07:46 PM: MAIN_MODULE: Actual batch is empty. You have to scan a board.
5:08:20 PM: MAIN_MODULE: Cleaning process started.
5:08:29 PM: MAIN_MODULE: Cleaning process paused.
5:08:33 PM: MAIN_MODULE: Cleaning process resumed.
5:08:39 PM: MAIN_MODULE: Cleaning process paused.
5:08:40 PM: MAIN_MODULE: Cleaning process interrupted.

```

```

: MAIN_MODULE: You have to scan a batch before starting the process.
: MAIN_MODULE: Actual batch is empty. You have to scan a
: MAIN_MODULE: Cleaning process started.
: MAIN_MODULE: Cleaning process paused.
: MAIN_MODULE: Cleaning process resumed.
: MAIN_MODULE: Cleaning process paused.
5:08:39 PM: MAIN_MODULE: Cleaning process paused.
5:08:40 PM: MAIN_MODULE: Cleaning process interrupted.

```

Drain pump

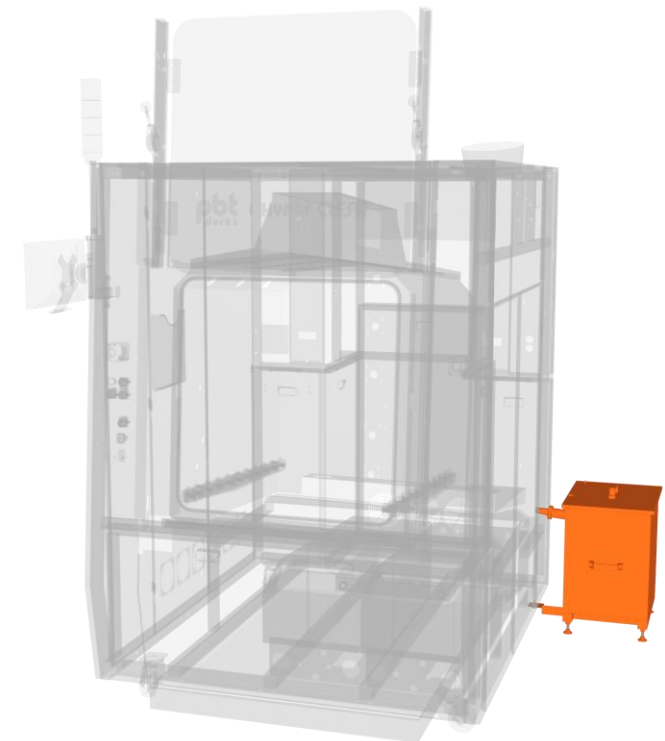
VM-00001771-X

20L External container with drain pump 50Hz

- Contains pump with float (automatic operation)
- Needed if there is no sewage system or the system is more than 1.5 meter from the machine
 - In case the sewage connection is higher than transfer pump waste outlet, the outlet pipe must be equipped with non-return valve (not included in delivery)

VM-00001778-X

20L External container with drain pump 60Hz



Clamping

VM-00002348-X

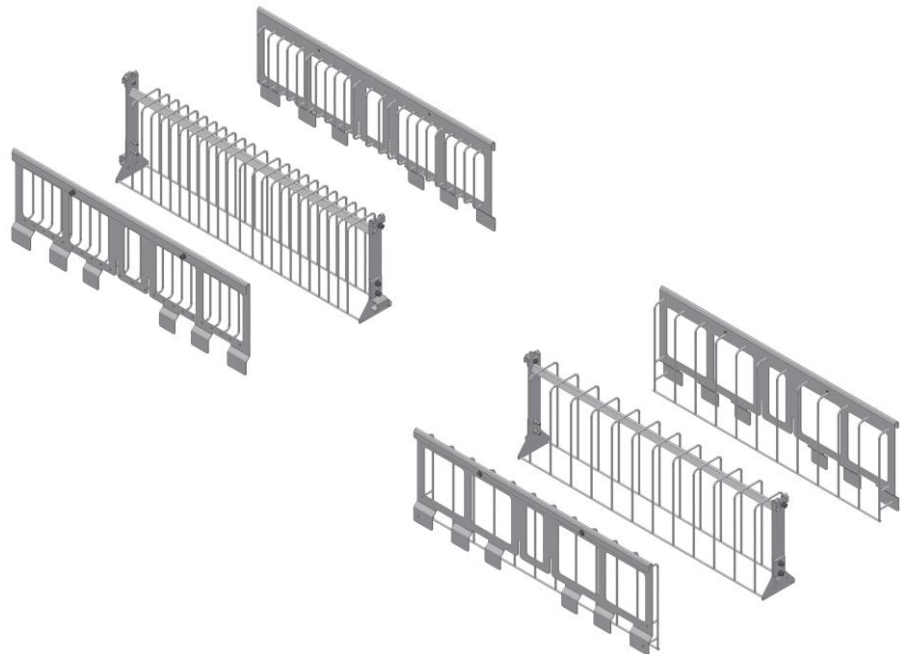
Solder pallet separator into basket SHORT - set of 3, 450x300 mm, pitch 30 mm

- Usable space of basket 700x700x700 mm
- 2x 21 slots for pallets – max capacity 42 pallets (depending on pallets size)

VM-00005213-X

Solder pallet separator into basket SHORT - set of 3, 450x300 mm, pitch 60 mm

- Usable space of basket 700x700x700 mm
- 2x 11 slots for pallets – max capacity 22 pallets (depending on pallets size)



VM-00002345-X

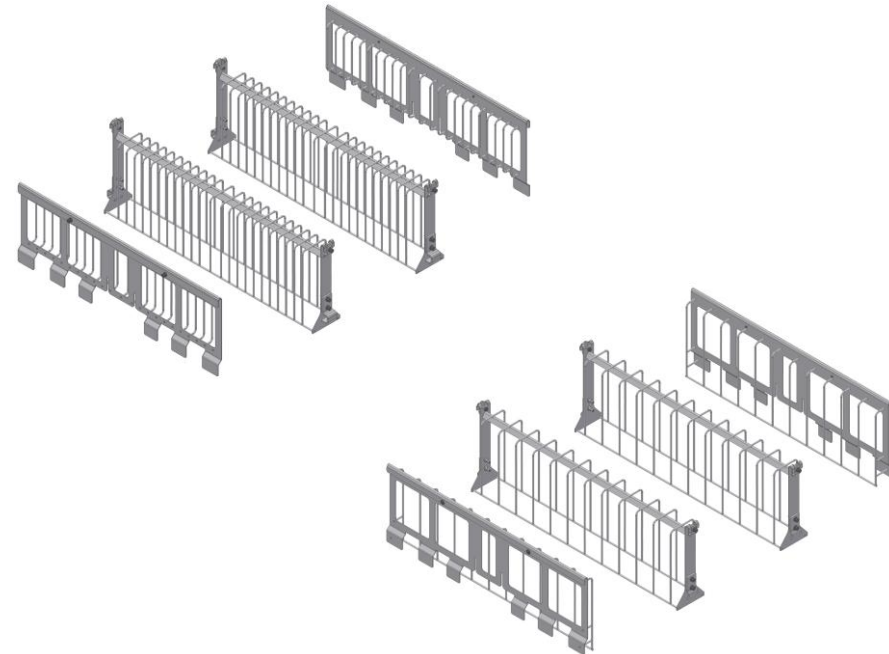
Solder pallet separator into basket LONG - set of 4, 450x300 mm, pitch 30 mm

- Usable space of basket 700x1000x700 mm
- 3x 21 slots for pallets – max capacity 63 pallets (depending on pallets size)

VM-00005199-X

Solder pallet separator into basket LONG - set of 4, 450x300 mm, pitch 60 mm

- Usable space of basket 700x1000x700 mm
- 3x 11 slots for pallets – max capacity 33 pallets (depending on pallets size)



Packing

VM-00002683-X

Transport wooden box incl. Packing Cost (HySW/HyCL) 2620 x 1701 x 2283 mm

- For machine only
- Including Heat Treatment (HT)
- Including ShockWatch shipping and handling indicator

VM-00003363-X

Transport wooden box incl. Packing Cost (MiSW) 1386 x 2300 x 1468 mm

- Smaller box for pushcart and accessories
- Including Heat Treatment (HT)
- Including ShockWatch shipping and handling indicator



HyCL SeaPack

Sea transport packaging surcharge HyCL

- Special packaging to prevent damage from climatic conditions if maritime transport



PHYTO_CERTIFICATE

Phytosanitary Certificate of Heat-Treated Wooden Box

- Certificate that the wooden box meets specified import phytosanitary requirements





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