

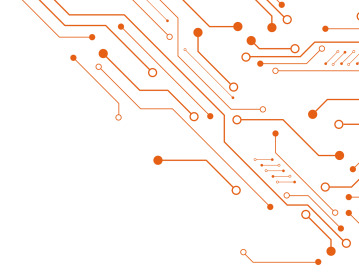


Compa**CLEAN** III

Config Guide

Updated June 2025

Plan 34



**TOP AND
BOTTOM SPRAY**



OSCILLATION



**HOT AIR
DRYER**



TRACEABILITY



**CONCENTRATION
CONTROL**



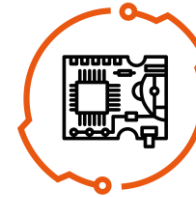
**WATER
REGENERATION**



Automatic cleaning machine

Compact solution for PCBA cleaning

Single chamber Spray-In-Air technology



PCBA

Features

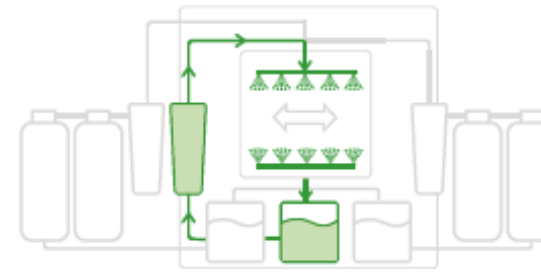
- Automatic cleaning machine for water-based chemicals
- Double capacity
- High volume batch size
- 4 stage process Wash, 1st Rinse, 2nd Rinse, Drying
- Conventional drying
- Closed or semi-open rinsing system
- Ideal for simple PCBAs
- Control SW language mutations

Applications

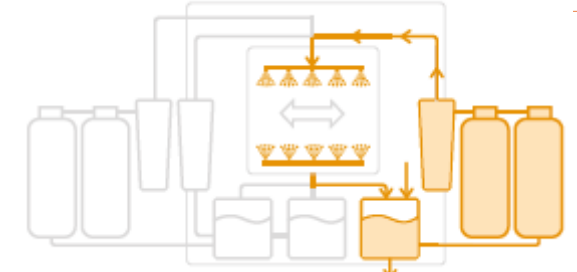
- Defluxing, removing activators and resin residues
- Cleaning contamination from handling and board manufacturing
- Cleaning second side misprints on complex assemblies
- Cleaning before conformal coating
- Fine degreasing of mechanical parts

Parameters

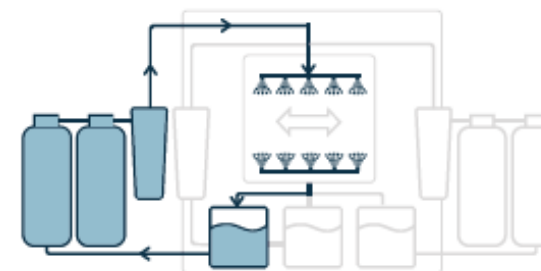
Machine dimensions W x L x H	1 060 x 1 680 x 2 220 mm
Weight (without liquid)	460-485 kg
Weight (with liquid)	635 kg
Maximum authorized load of basket	25 kg
Power supply voltage	400V/230V 50Hz, 208/120V 60Hz



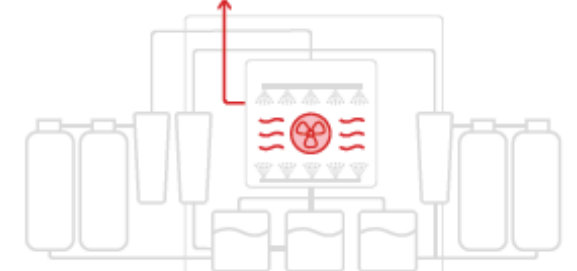
Wash



1st Rinse



2nd Rinse



Drying

CompaCLEAN III	MECHANICAL FILTERS					
	Wash		1 st Rinse		2 nd Rinse	
	2	5 µm 10" length	2	1 µm 10" length	2	1 µm 10" length

Base

VM-00008010-X

CompaCLEAN III: Wash + 1st Rinse + 2nd Rinse + Drying

- Spray-In-Air cleaning system
- Heating of Wash up to 60°C
- Heating of Rinse up to 40°C
- Drying up to 110°C
- Central stop button
- Wash and rinse tanks
- 1pc lower basket



Power supply

VM-00009043-X

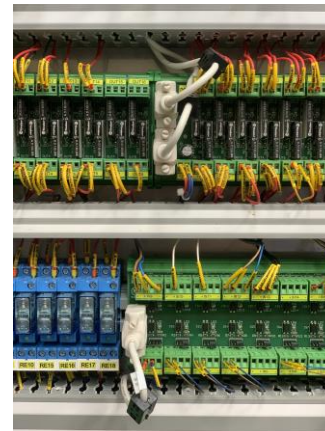
Power Supply 230/400VAC, 50/60Hz

- Switchboard, electrical wiring

VM-00009044-X

Power Supply 120/208VAC, 60Hz

- Switchboard, electrical wiring



Pumps

VM-00009038-X

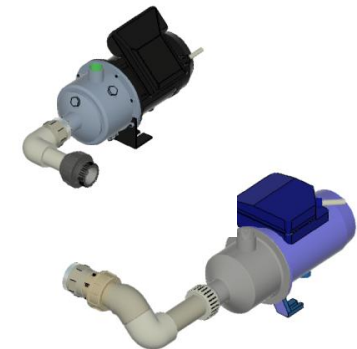
Pumps 50Hz

- Pumps for liquid tanks

VM-00009039-X

Pumps 60Hz

- Pumps for liquid tanks

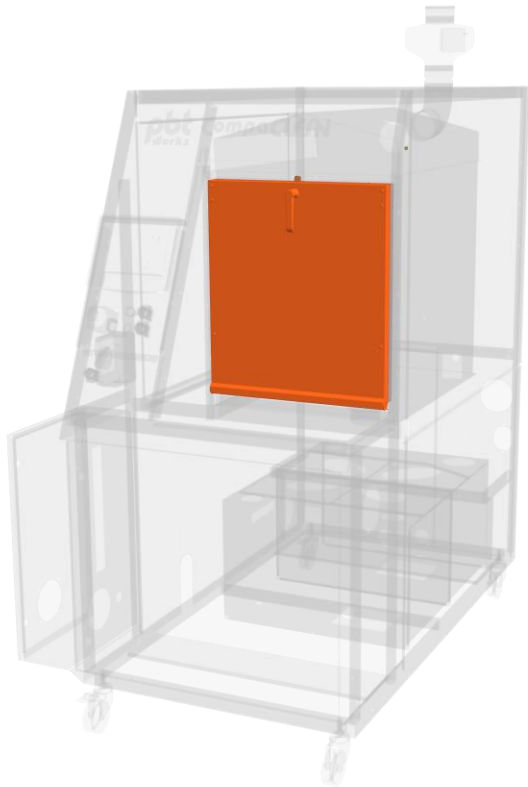


Door selection

VM-00007384-X

Stainless steel door standard

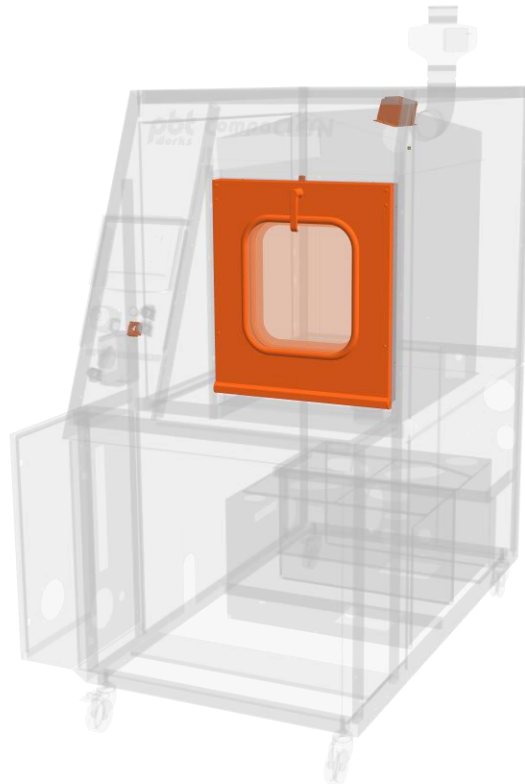
- Door without a window



VM-00001599-X

Stainless steel door with window and light

- Door with a window and chamber light

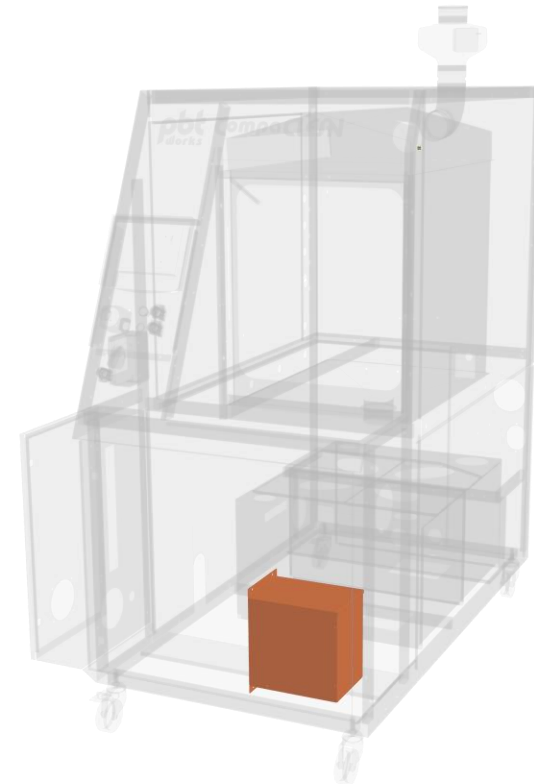


Control system

VM-00006263-X

Control System

- Built-in PC with Windows OS (Win10)
- PBT Works machine control software



1st Rinse selection

VM-00006836-X

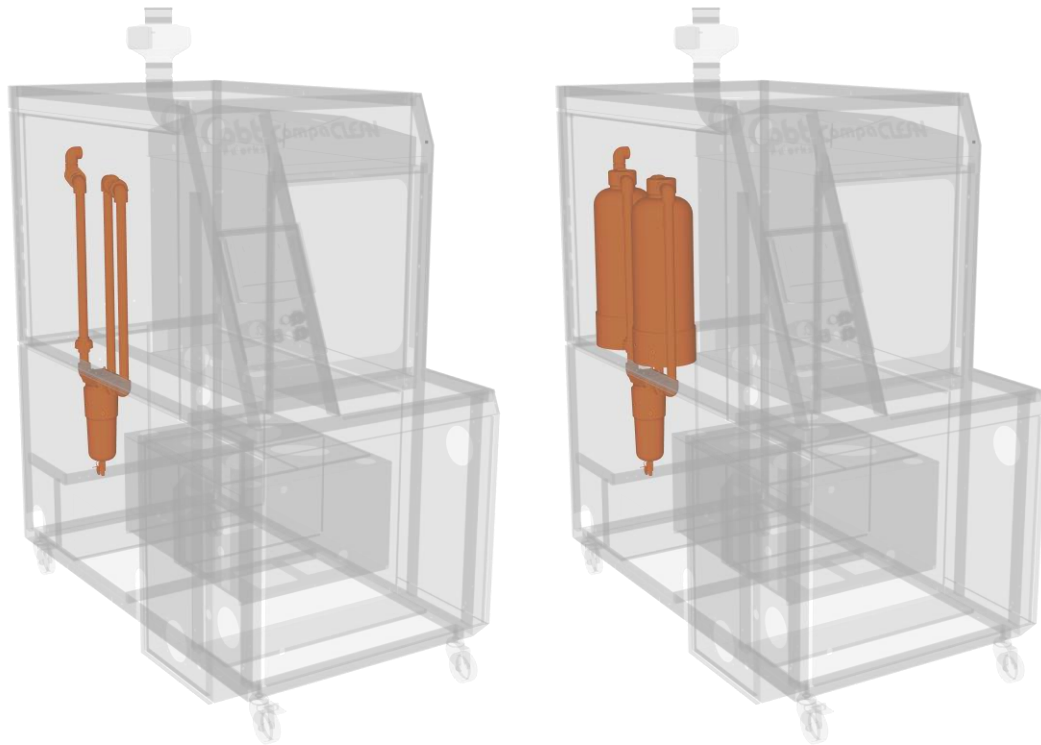
1st Rinse without chemical filters

- Mechanical filter and piping

VM-00007867-X

Built-in Closed loop 1st Rinse (Carbon, Mixedbed Small, w/o conductometer)

- Built-in closed loop with chemical filtration and a mechanical filter
- Small Activated carbon and Mixedbed
- Compact installation without any external units



External closed loop 1st Rinse selection

VM-00007794-X

External Closed loop 1st Rinse (Carbon, Mixedbed Medium, w/o conductometer)

- External cart with medium Mixedbed and Activated carbon, 1µm 10" filter pad
- Extended lifetime

VM-00007796-X

External Closed loop 1st Rinse (Carbon, Mixedbed Large, w/o conductometer)

- External cart with large Mixedbed and Activated carbon, 1µm 20" filter pad
- Extended lifetime

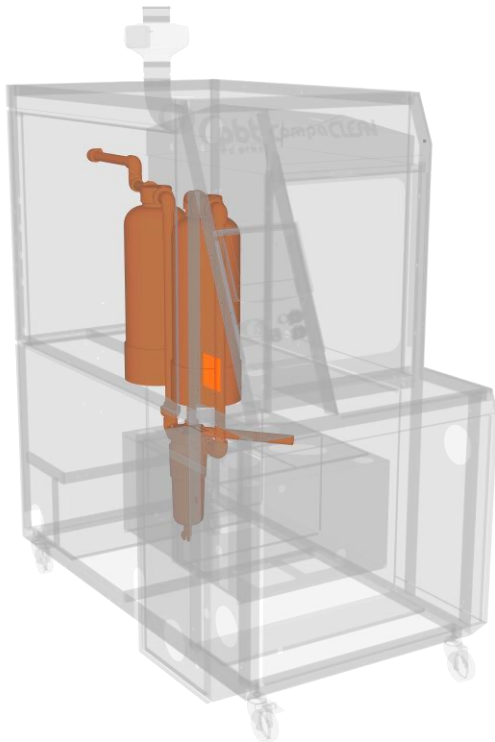


2nd Rinse selection

VM-00006831-X

Built-in Closed loop 2nd Rinse (Carbon, Mixbed Small, conductometer)

- Built-in closed loop with chemical filtration and a mechanical filter
- Small Activated carbon and Mixbed
- Conductometer for continual monitoring of rinse water conductivity
- Compact installation without any external units



External closed loop 2nd Rinse selection

VM-00007795-X

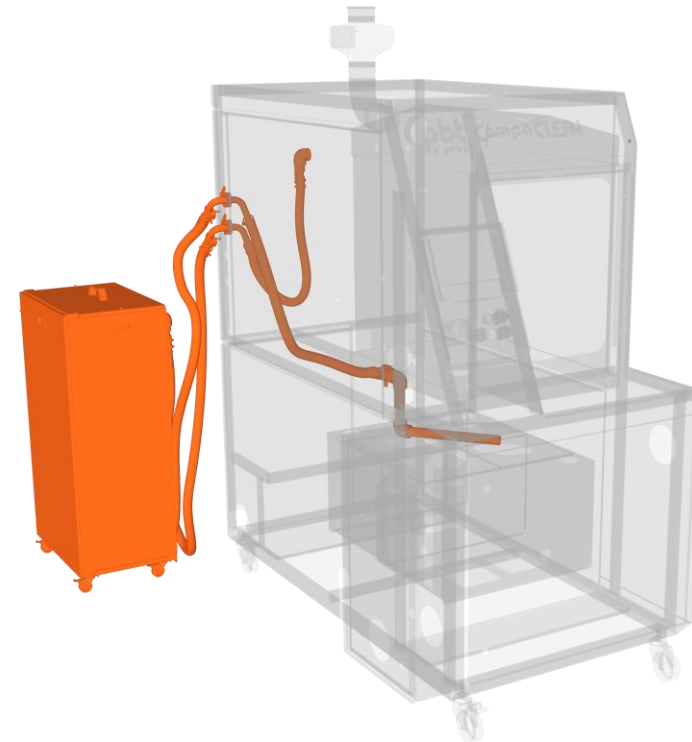
External Closed loop 2nd Rinse (Carbon, Mixbed Medium, conductometer)

- External cart with medium Mixbed and Activated carbon, 1µm 10" filter pad
- Conductometer for continual monitoring of rinse water conductivity
- Extended lifetime

VM-00007797-X

External Closed loop 2nd Rinse (Carbon, Mixbed Large, conductometer)

- External cart with large Mixbed and Activated carbon, 1µm 20" filter pad
- Conductometer for continual monitoring of rinse water conductivity
- Extended lifetime

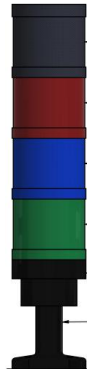


Signal tower

VM-00001607-X

Signal tower standard (green/blue/red)

- Audio and visual effects to signal individual processes

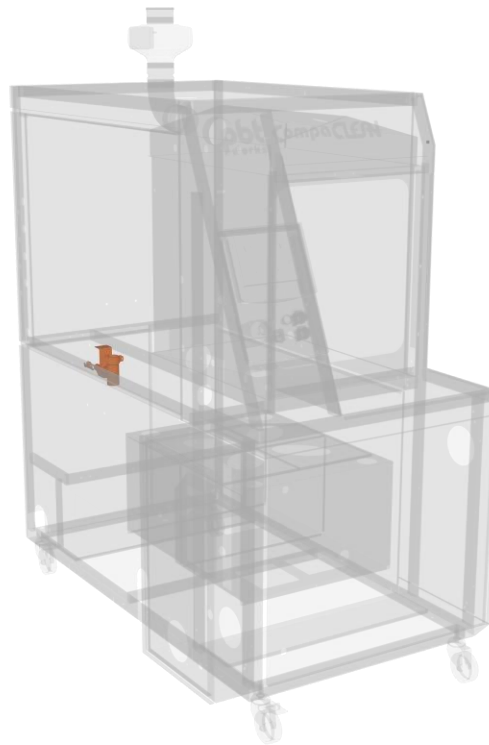


Conductometer

VM-00007787-X

Conductometer for 1st Rinse

- Continual monitoring of rinse water conductivity

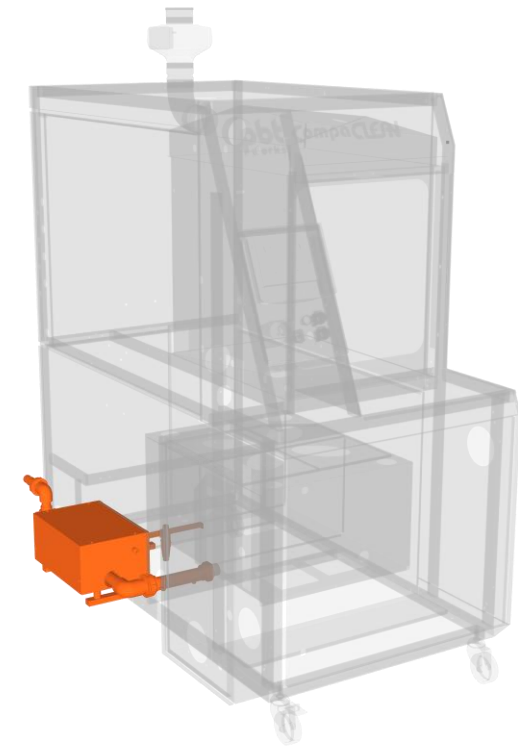


Drain pump

VM-00007527-X

Drain pump for Rinse 230V-50Hz

- For easy draining of wastewater from rinse tank into drainage
- Recommended for open loop rinse with distant drainage
- Max pump capacity is 30 L/min

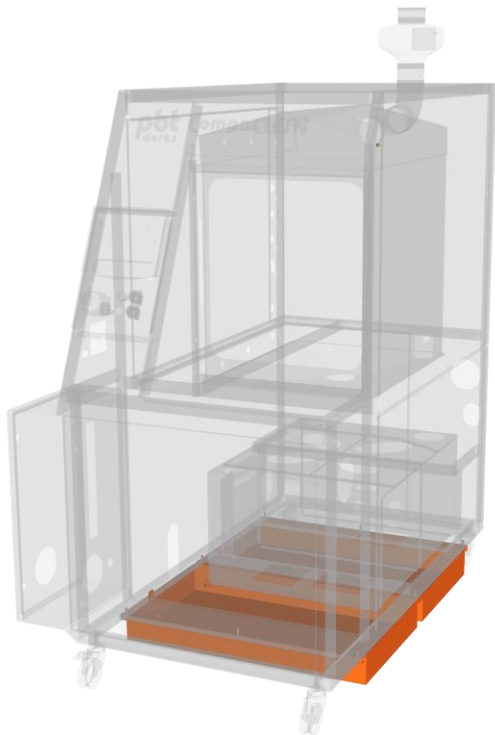


Spillage tray

VM-00007423-X

Spillage tray with leakage detection sensor

- Metal tray under the machine to hold possible leakage
- Sensor which indicates leakage from machine/tanks/pipes incl. acoustic signal
- Capacity up to 95L of liquid

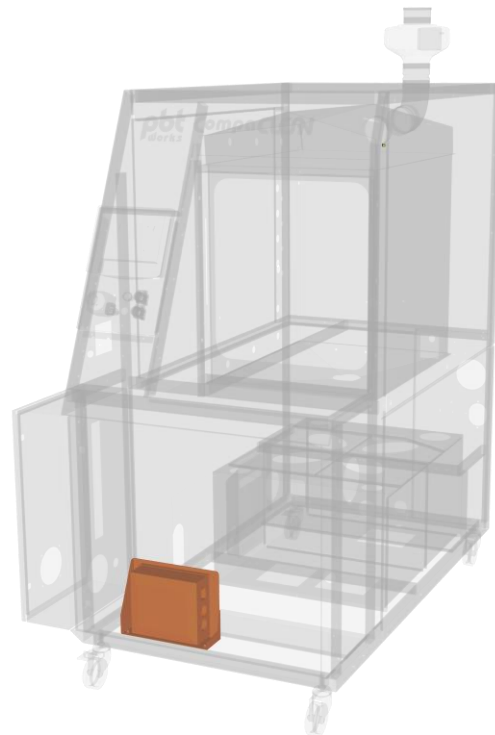


UPS

VM-00001613-X

UPS for control system backup

- Control PC Power supply backup (in case of power cut, ensures safe PC shut down)



XML Online Traceability

VM-00010813-X

Traceability XML ONLINE prep kit for CC

- Preparation kit for later retrofitting of XML Traceability
- This optional item is to be ordered with the machine, for future installation of traceability

VX-00000027-X

Traceability XML ONLINE for CC

- Designed for tracking cleaned items and allowing automatization of the cleaning process
- Automatic cleaning program selection based on the batch code
- NUC PC can be connected to LAN/Internet without any restrictions (for Windows and driver updates etc.)
- Machine standard control PC is safely separated from the Internet
- Multi-format IR code scanner – can read barcodes, DM and QR codes, etc.
- Traceability XML files are sent to NUC PC for further processing and backed-up on the standard PC
- XML files provide great opportunity for further machine processing and data analysis



```

<Wash>
  <General>
    <Loop>1</Loop>
    <Temperature>60</Temperature>
    <Conductivity>1</Conductivity>
  </General>
  <Step_0>
    <Time>600</Time>
    <Action>Spray</Action>
    <Outlet>Wash</Outlet>
    <AirTemperature>60</AirTemperature>
    <Filling_Level>0</Filling_Level>
    <AD_Volume>0</AD_Volume>
    <AD_Concentration>25</AD_Concentration>
    <Empty_Level>0</Empty_Level>
    <Oscilation>ON</Oscilation>
    <Valve_Chamber>ON</Valve_Chamber>
  </Step_0>
    
```

Concentration measuring

VM-00007872-X

ZESTRON EYE - concentration measuring and data acquisition system

- Concentration monitoring of cleaning medium in wash loop
- Used for concentration measuring of circulated cleaning medium in piping
- The set includes sensor, controller, cable
- The sensor is calibrated for Zestron cleaning agents only

VM-00007793-X

KYZEN ANALYST - concentration measuring and data acquisition system

- Concentration monitoring of cleaning medium in wash loop
- Used for concentration measuring of circulated cleaning medium in piping
- The set includes sensor, controller, HMI and cable
- The sensor is calibrated for Kyzen cleaning agents
- Other chemistry calibration is possible



Automatic Dosing

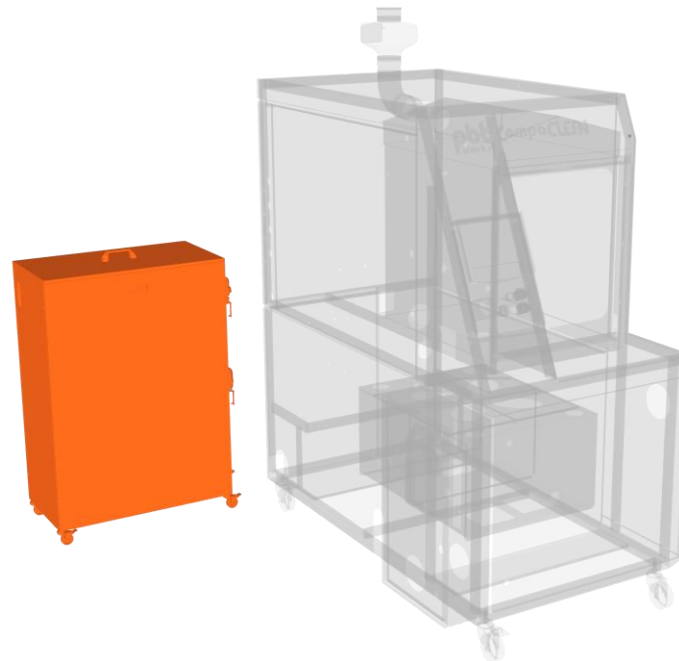
VX-00000034-X AD Automatic Dosing of cleaning agent CC

- Refills the wash tank with cleaning agent concentrate and DI water according to set concentration parameters
- In combination with concentration measuring unit can work according to measured concentration (Adaptive dosing)

VM-00010816-X

AD prep kit for CC

- Preparation kit for retrofitting of the AD Automatic Dosing Unit

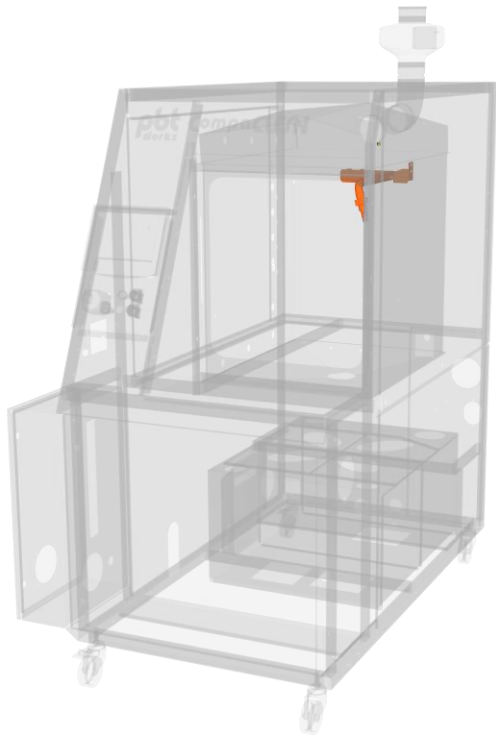


Additional rinse (Chemical stop)

VM-00007827-X

Additional Pre-Rinse for 1st and 2nd rinse

- Extra nozzles for pre-rinse from external water source
- Recommended for rinse without chemical filters and semi-open rinse loop

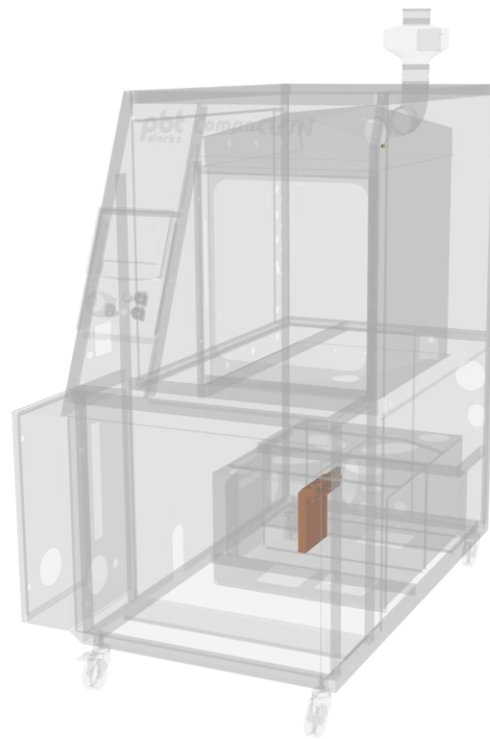


Cascade

VM-00007550-X

Cascade overflow from 2nd into 1st rinse tank

- Recommended for both rinse loops without chemical filters
- Machine must be connected to external DI water source
- Machine needs to be connected to drainage
- Minimal rinse loop water maintenance

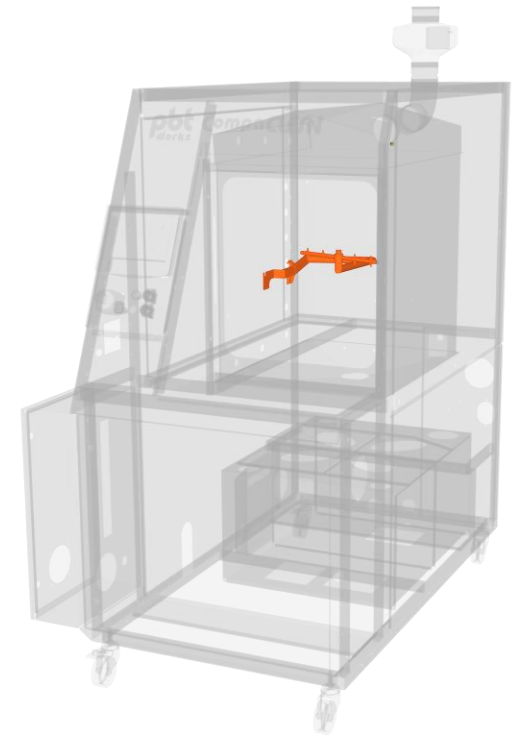


Middle spray nozzle bar

VM-00007717-X

Nozzle spray bar between lower and upper basket

- Recommended with purchase of upper basket

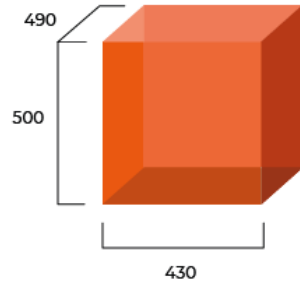


Clamping

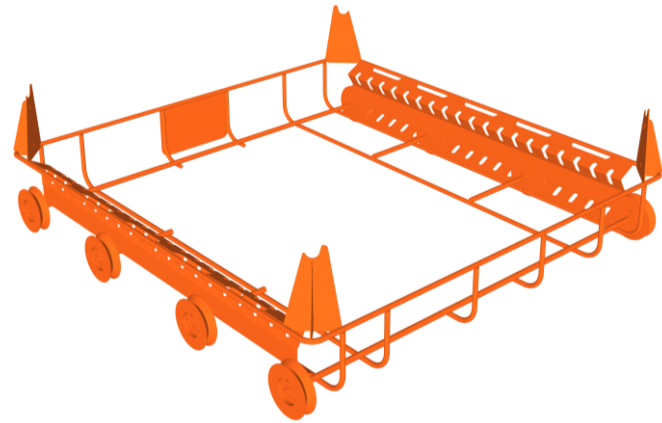
VM-00008845-X

Extra lower basket

- 1pc included in machine Base
- Maximum weight of all objects in the basket 24 kg



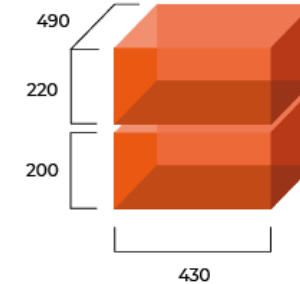
Standard clamping usable space



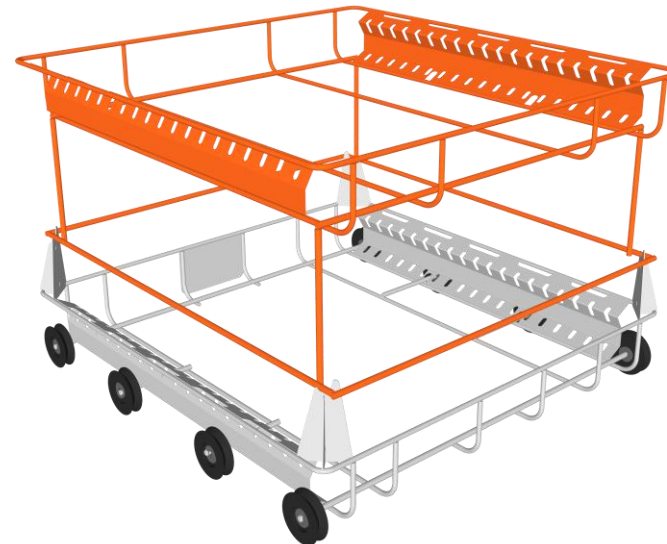
VM-00008890-X

Upper basket

- Including holder placed on bottom basket
- Maximum weight of all objects in the basket 24 kg



Standard clamping usable space

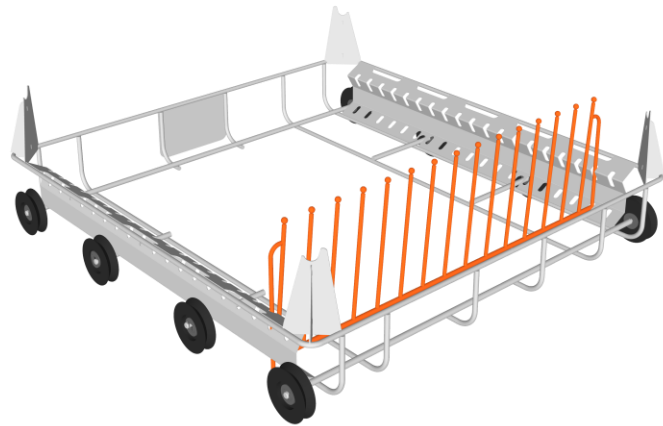


Clamping

VM-00008929-X

PCB separator into basket 14 positions, 22,5 mm spacing

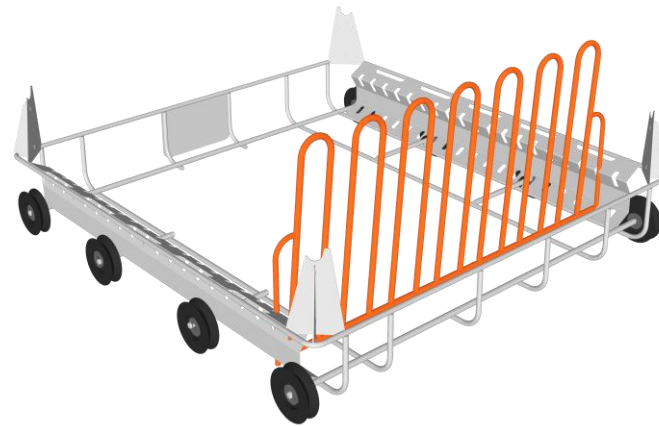
- Suitable for bottom and upper basket



VM-00008927-X

Pallet separator into basket 6 positions, 20 mm spacing

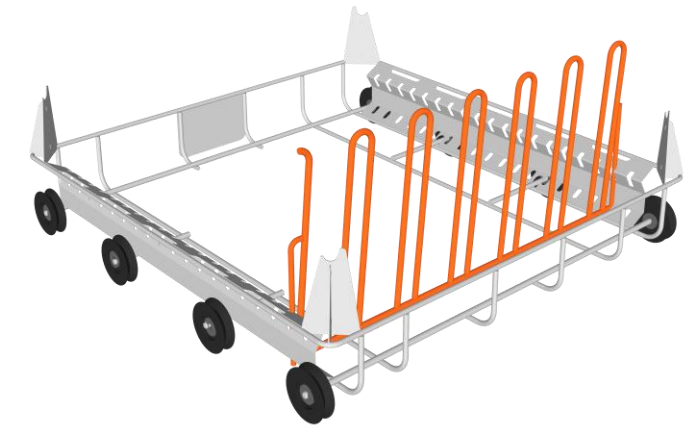
- Suitable for bottom and upper basket



VM-00008928-X

Pallet separator into basket 6 positions, 40 mm spacing

- Suitable for bottom and upper basket

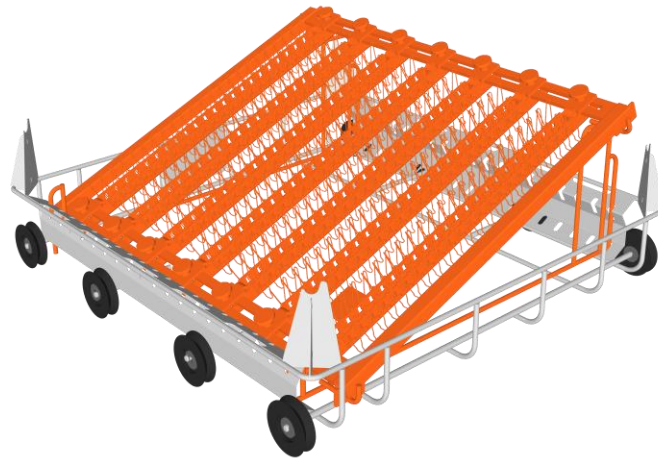


Clamping

VM-0008892-X

Holder for small PCBs - 7 spring wire bars in frame

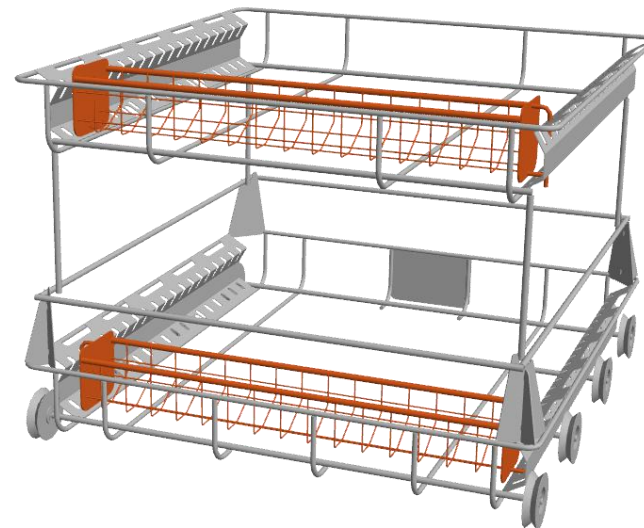
- Suitable for bottom and upper basket
- All spring wire bars are adjustable and removable
- Max dimensions of PCB incl. clamping (WxL) 358 x 390 mm



VM-0008897-X

Wire basket CC (WxLxH) 50 x 410 x 50 mm

Suitable for bottom and upper basket



Packing

VM-00008955-X

Transport wooden box incl. packing cost 1286 x 2190 x 2283 mm

- Standard wooden box
- Including HT (heat treatment)
- Including Shockwatch shipping and handling indicator

VM-00008925-X

Transport wooden box extended incl. packing cost 1400 x 2500 x 2283 mm

- Extended wooden box
- Including HT (heat treatment)
- Including Shockwatch shipping and handling indicator



CompaCLN SeaPack

Sea transport packaging surcharge CC

- Special packaging if machine travels by sea to prevent climate damage



Phytosanitary

Phytosanitary Certificate of Heat-Treated Wooden Box

- Certificate that the wooden box meets specified import phytosanitary requirements

