

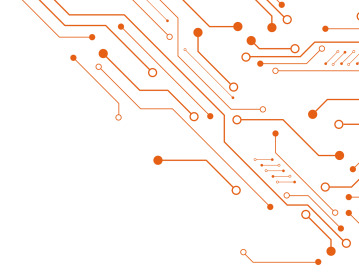


Mini SWASH III

Config Guide

Updated March 2025

Plan 38



ROTATING
SPRAY



ROTATING AIR
KNIFE DRYER



WATER
REGENERATION



TRACEABILITY



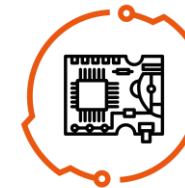
RINSE
CONTROL



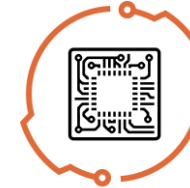
Single chamber Spray-In-Air technology

Small volume PCBA cleaning

Stand-alone system for smaller producers



PCBA



MISPRINTS

Features

- Automatic zero drain system
- 4-step process Wash, 1st Rinse, 2nd Rinse, Drying
- Rotary direct spray cleaning
- Rapid drying by heated air knife
- Closed loop eco drain system
- Suitable for **small volume PCBA defluxing & misprints**
- Control software language mutations

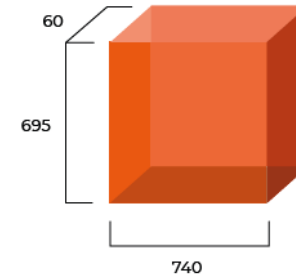
Applications

- Defluxing, removing activators and resin residues
- Cleaning contamination from handling and board manufacturing
- Cleaning of second side misprints
- Cleaning before conformal coating

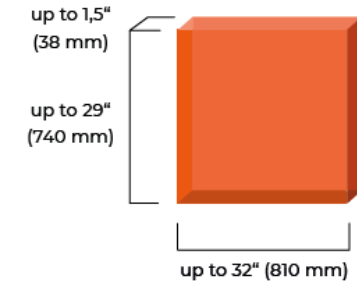
Parameters

	MiniSWASH III
Machine dimensions WxLxH	1600 x 1400 x 1200 mm (height with ventilator or signal tower 1600 mm)
Machine weight (without liquid)	450 kg
Power supply	3x 400/230V 50-60Hz or 3x 208/120v 60Hz

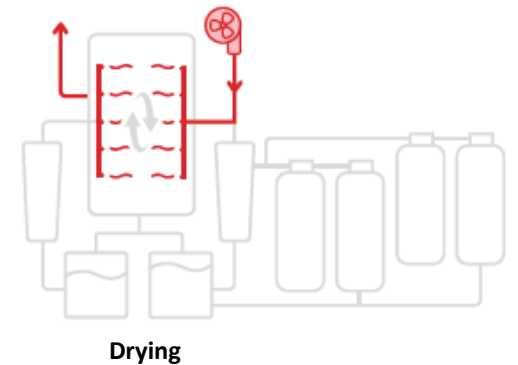
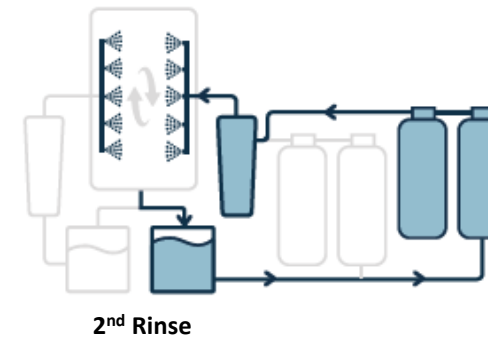
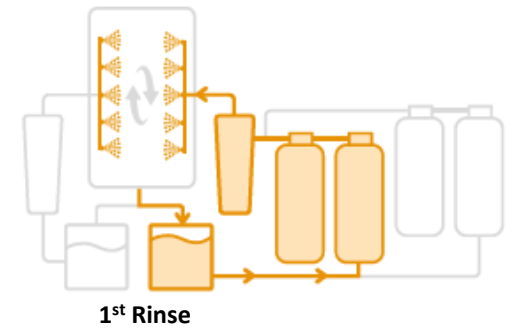
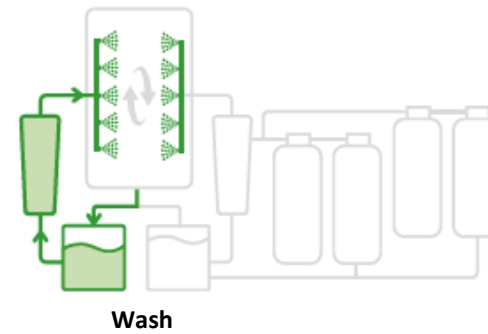
MiniSWASH III	MECHANICAL FILTERS				
	Wash		Rinse loops		DI water carts
	1pc	5 µm 20" length	1pc	1 µm 20" length	2pcs 1 µm 20" length



Standard clamping usable space



Framed stencils usable space



Base

CBB-00000004-X

MiniSWASH III 230/400V 50Hz Wash + 2x Rinse + Drying

CBB-00000005-X

MiniSWASH III 230/400V 60Hz Wash + 2x Rinse + Drying

CBB-00000006-X

MiniSWASH III 120/208V 60Hz Wash + 2x Rinse + Drying

- Spray-In-Air cleaning machine
- Heating of wash tank up to 60°C
- Heating of rinse tank up to 40 °C
- Air-knife drying system with heating up to 90°C
- PLC control system, touchscreen
- Electric switchboard and wiring
- Liquid system – pumps, piping, filtration
- Wash and rinse tanks
- Spray arm and air-knife crash detection sensors
- Central stop button
- 2 filtration carts (2x medium mixedbed and activated carbon vessels, 2x 1µm 20" mechanical filters)
- Conductometer for continual monitoring of rinse water conductivity
- Easy to open and lock door mechanism
- Built-in parallelogram as framed stencil clamping



Exhaust system

CBS-00000001-X

Exhaust sensors

- Sensors detect insufficient extraction and are connected to the safety PLC
- For customers with adequate central extraction system:
 - Flowrate: 150–200 m³/h
 - Under-pressure: 50–80 Pa
 - Connection: hose ø100 mm

CBS-00000002-X

Exhaust fan 230V, 50Hz/60Hz

CBS-00000003-X

Exhaust fan 120V, 60Hz

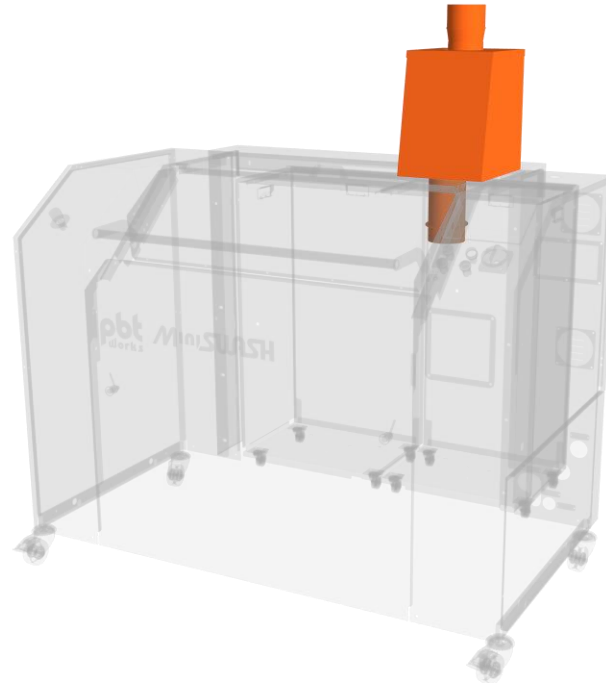
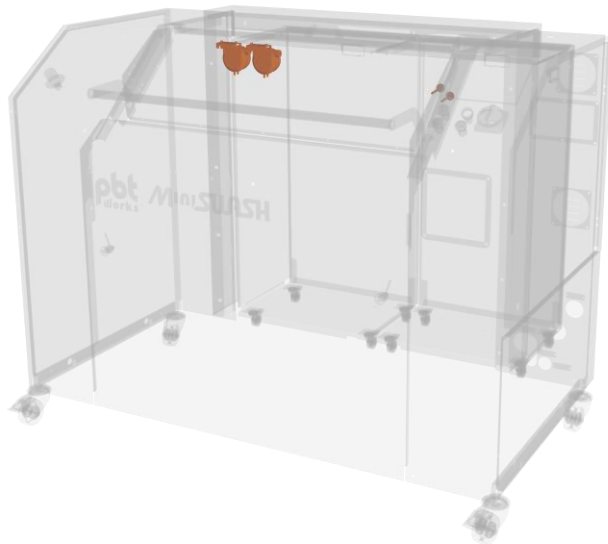
- Connection: Hose ø100 mm
- For customers without central extraction system

Signal tower

CBS-00000004-X

Signal tower

- Audio and visual effects to signal individual processes
- Standard green/blue/red signalization



Traceability

CBO-00000001-X

Traceability XML ONLINE prep kit

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

CBO-00000002-X

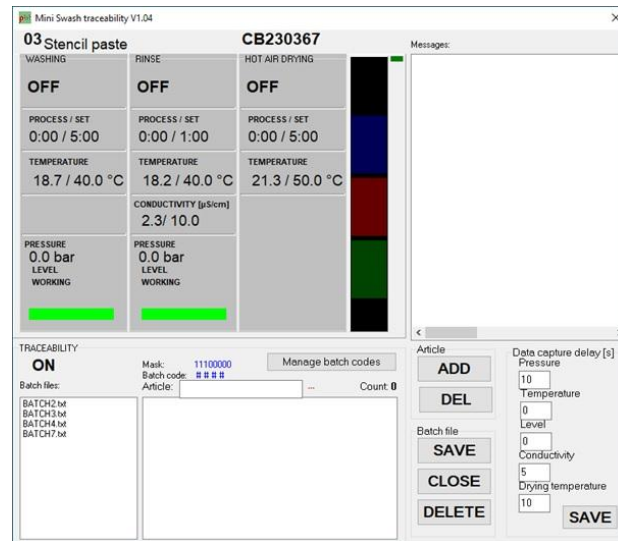
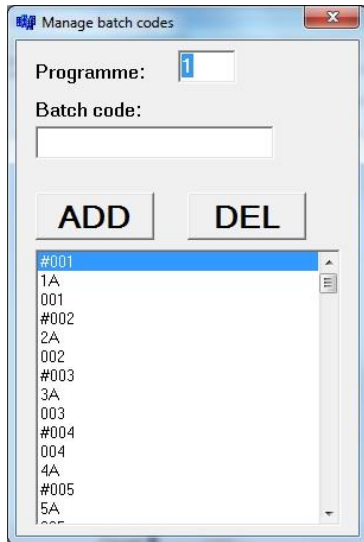
Traceability XML ONLINE

- Machine can be connected to LAN (Internet) without any restrictions
- (Win updates, driver updates etc.)
- Machine control PLC is safely separated from the Internet connection
- The barcode reader can read barcodes, data matrices and QR codes
- Traceability files are stored on Traceability PC in XML format
- XML files are machine processable

CBO-00000003-X

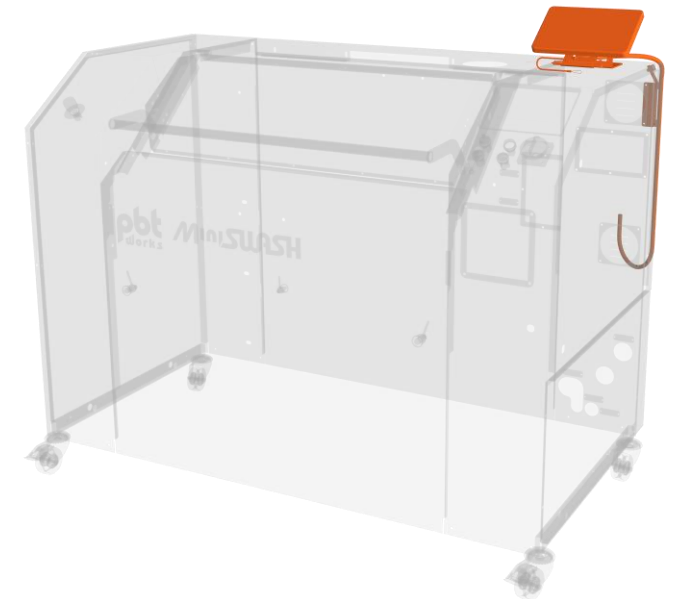
Additional display for traceability

- Extra 10" LCD touchscreen display for better control of traceability files in the machine
- Can be placed on machine surface



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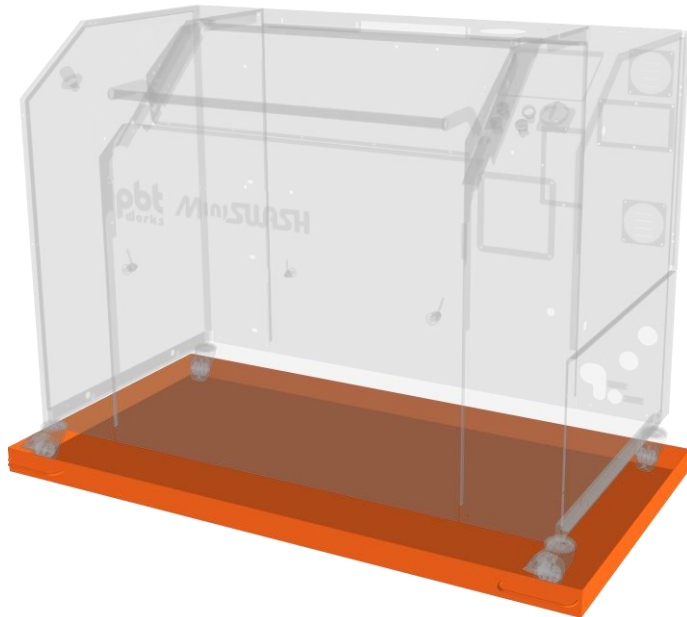


Spillage tray

CBO-00000009-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
- Dimensions 1618 x 838 x 70 mm, capacity up to 95L of liquid

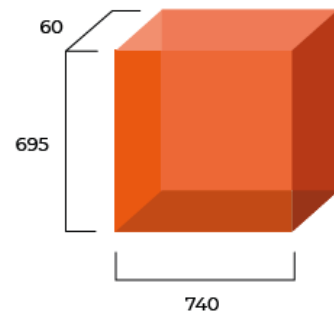
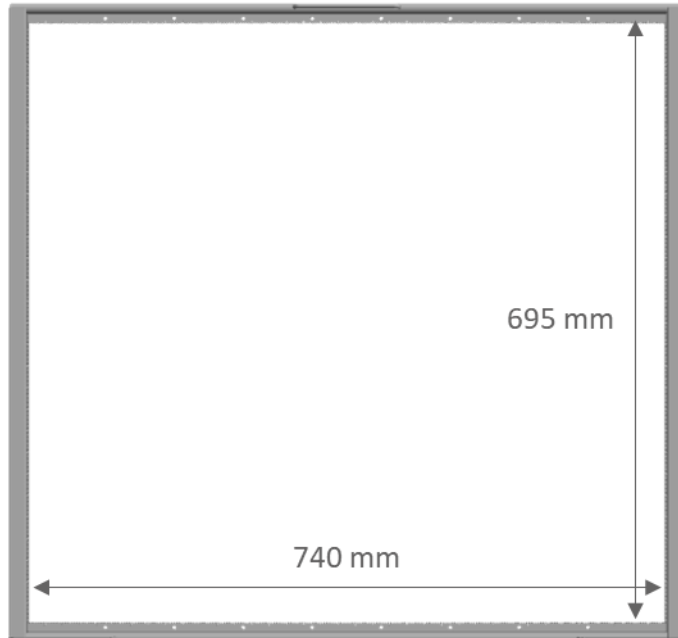


Clamping

CLP-00000005-X

Basic frame TWINGO, MiSW (usable 740x695 mm)

- Basic frame for clamping



Standard clamping usable space

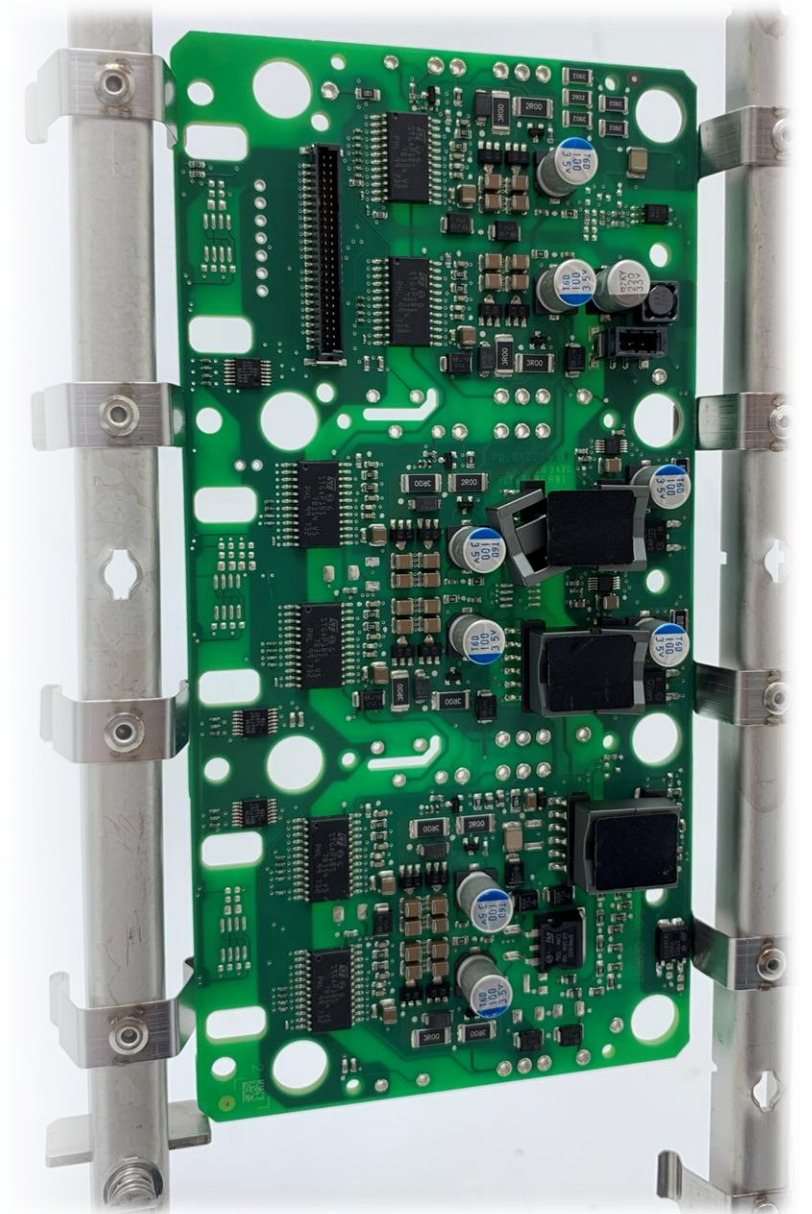
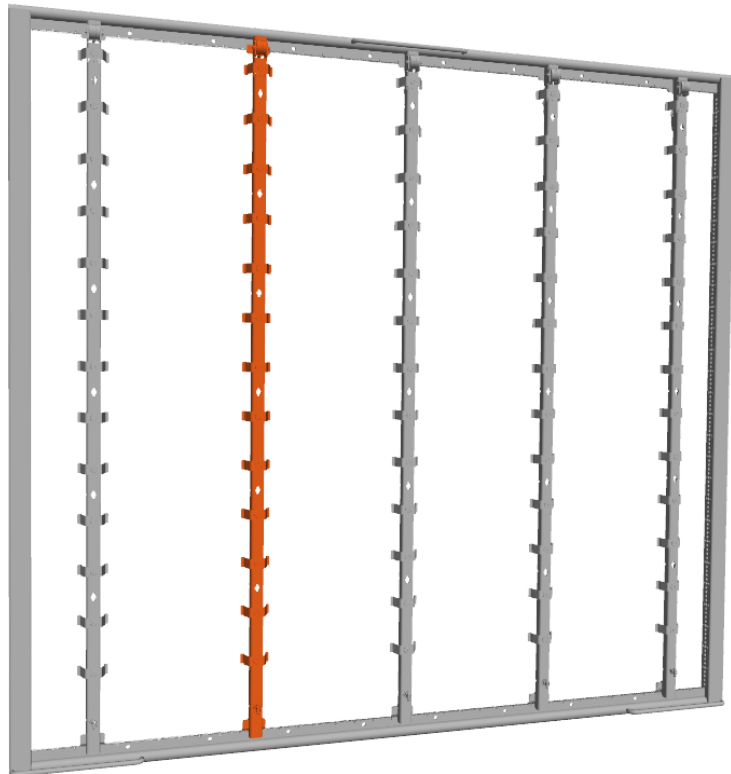


Clamping

CLP-00000006-X

Spring fingers bar for PCB (vertical, pitch 50mm) into basic frame TWINGO, MiSW, HySW

- Adjustable vertical bar with metal fingers

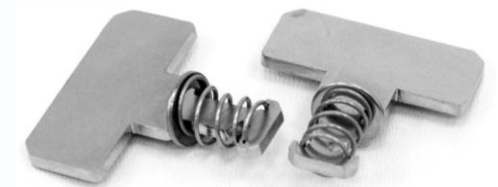
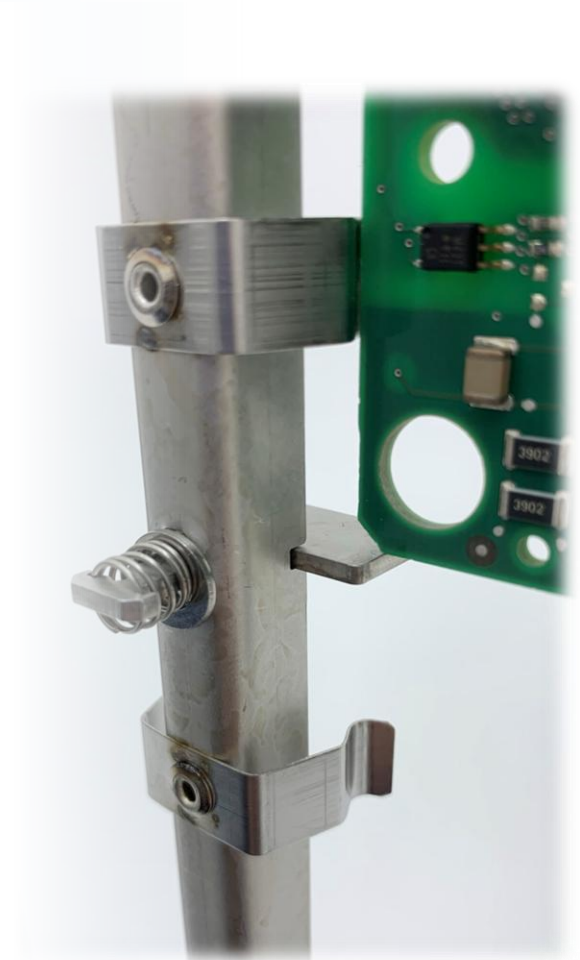
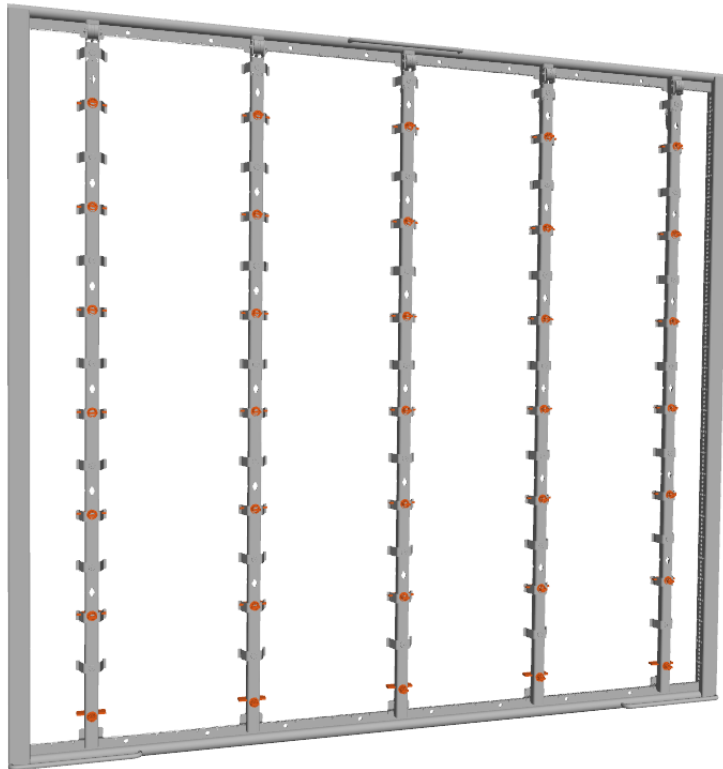


Clamping

CLP-00000007-X

Supporting pin for heavy board (for vertical bar with spring fingers only)

- This pin holds PCB from sliding down
- To be used with CLP-00000006-X Spring fingers bar only

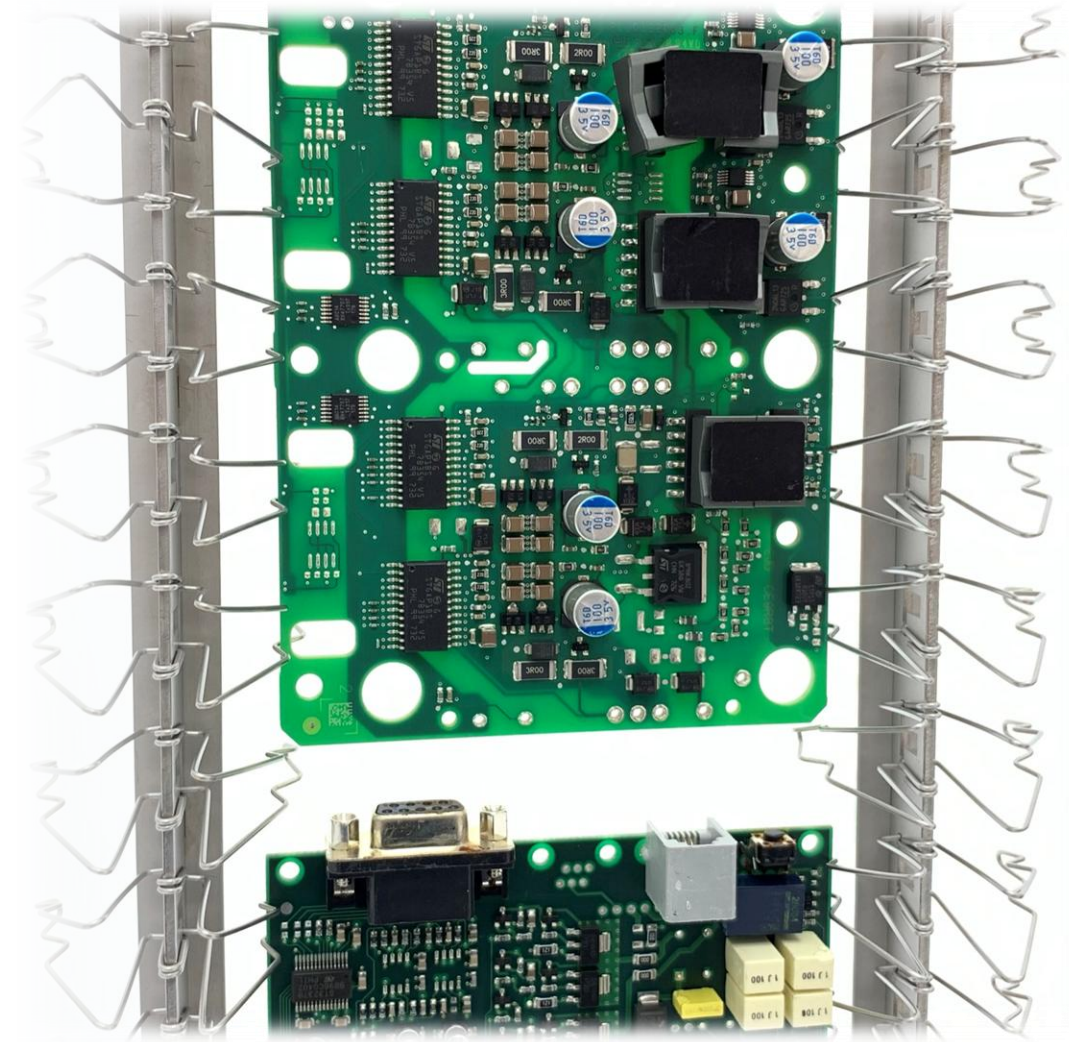
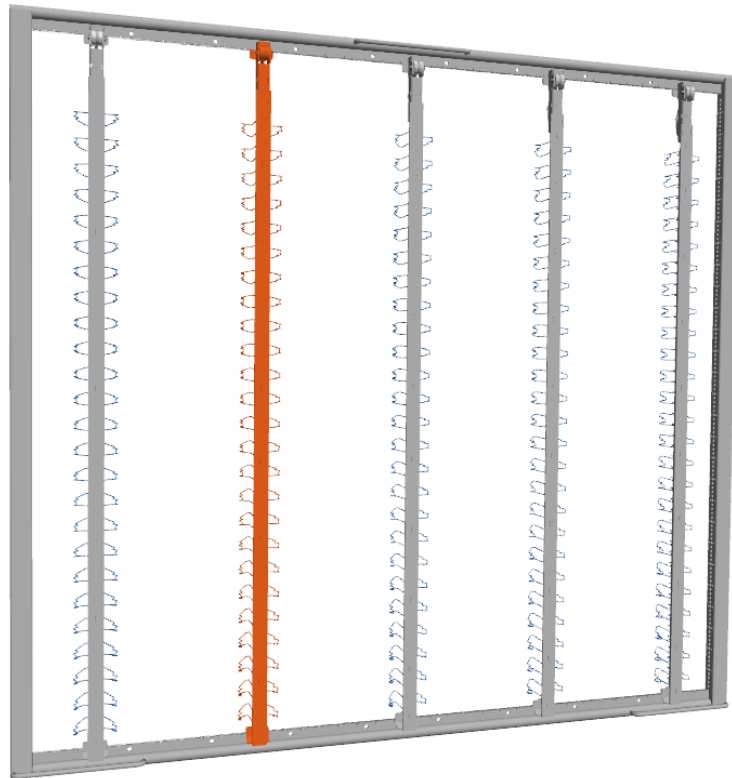


Clamping

CLP-0000008-X

Spring wires bar for PCB (vertical, pitch 25mm) into basic frame TWINGO, MISW, HySW

- Adjustable vertical bar with 50 spring wires

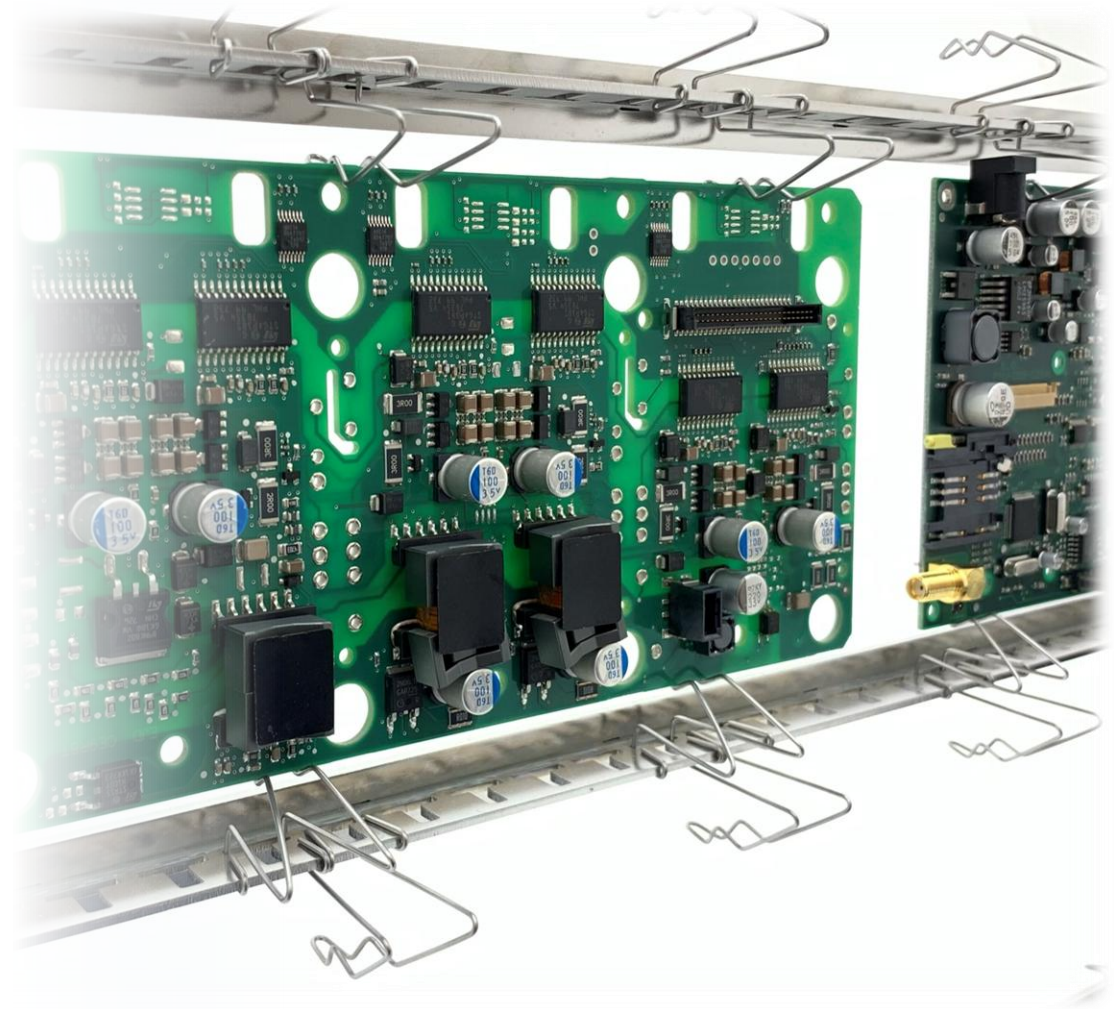
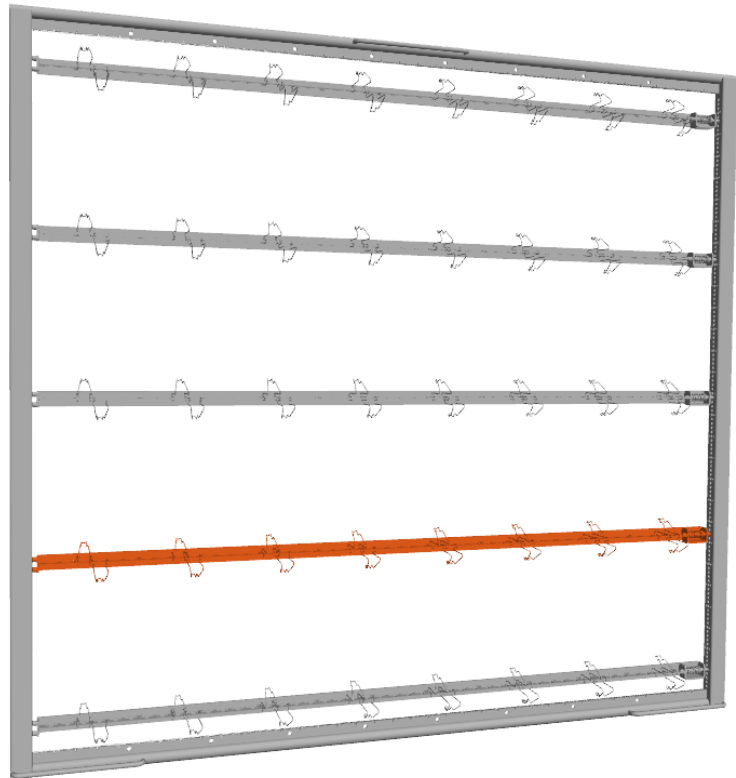


Clamping

CLP-00000009-X

Spring wires bar for PCB (horizontal, T-profile) into basic frame SINGLE/TWINGO, MiSW, HySW

- Adjustable horizontal bar with 16 spring wires



Clamping

CLP-00000010-X

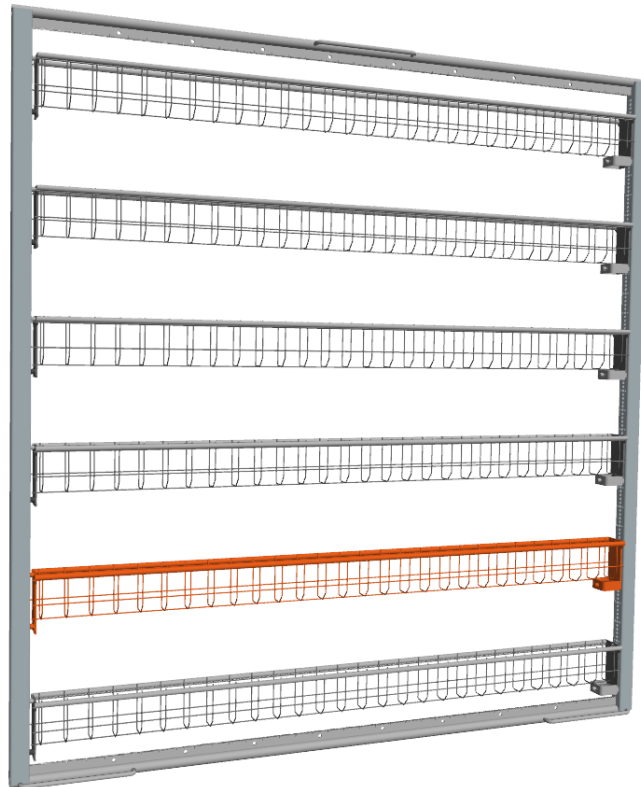
Wire basket 24x727x50 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 24 x 727 x 50 mm
- 6 pcs/frame

CLP-00000013-X

Wire basket 34x727x50 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 34 x 727 x 50 mm
- 6 pcs/frame



Clamping

CLP-00000011-X

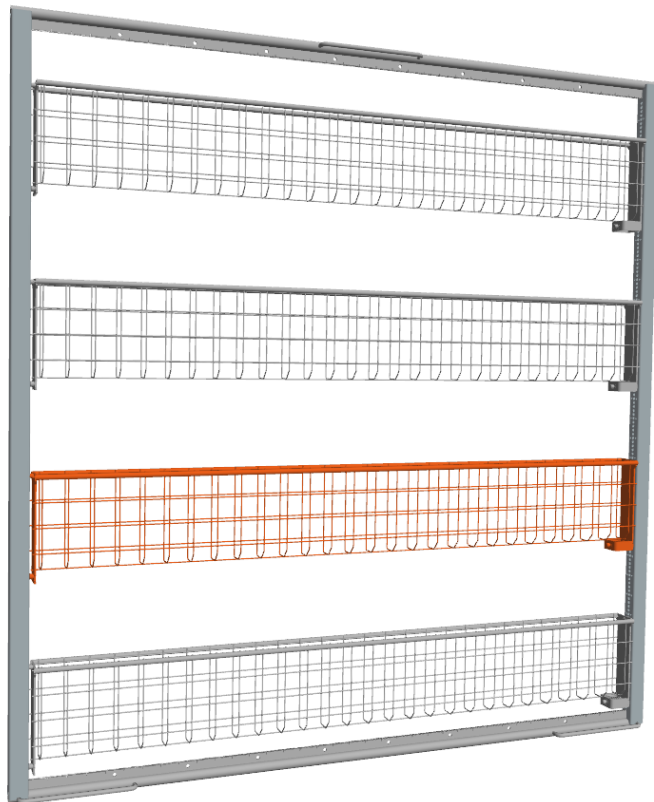
Wire basket 24x727x100 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 24 x 727 x 100 mm
- 4 pcs/frame

CLP-00000014-X

Wire basket 34x727x100 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 34 x 727 x 100 mm
- 4 pcs/frame



Clamping

CLP-00000012-X

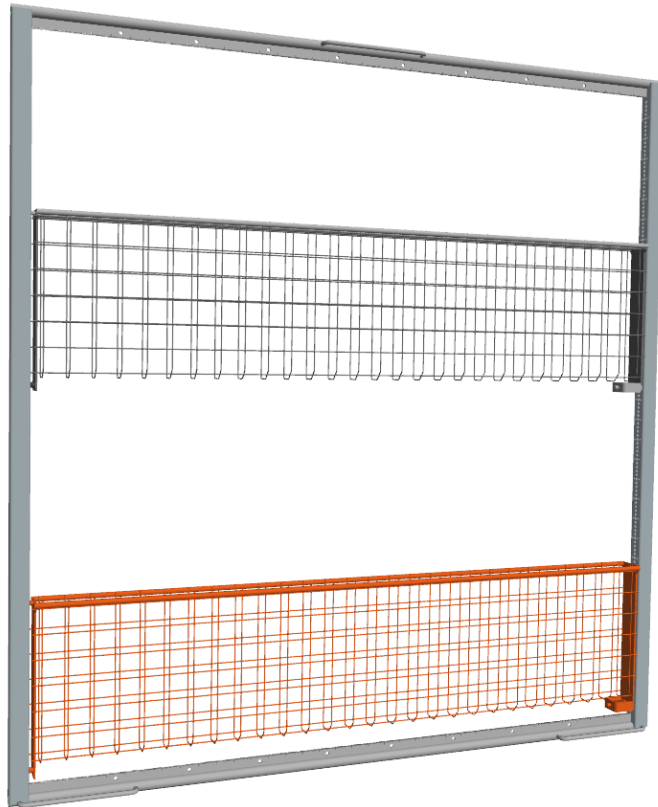
Wire basket 24x727x170 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 24 x 727 x 170 mm
- 2 pcs/frame

CLP-00000015-X

Wire basket 34x727x170 (WxLxH usable dim.) into basic frame SINGLE/TWINGO, MiSW, HySW

- Basket usable dimensions 34 x 727 x 170 mm
- 2 pcs/frame

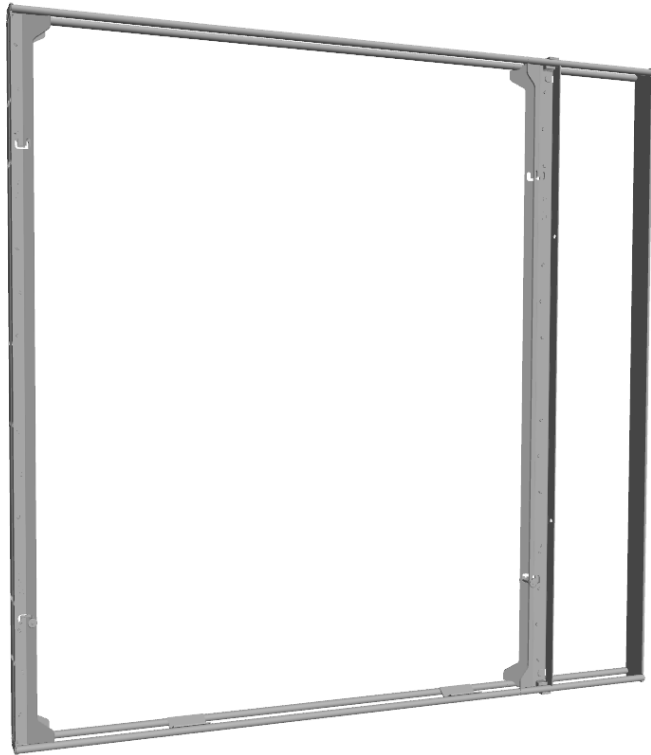


Stencil clamping

CLP-00000017-X

VectorGuard & Zelflex stencil holder, adjustable for all types-directly into SINGLE/TWINGO, MiSW

- DEK VectorGuard stencil and Zelflex Protect stencil can be easily inserted into the holder
- Suitable for size 23x23", 23x29", 29x29"



CLP-00000019-X

Stencil sheet holder w/o basic frame (SINGLE/TWINGO, MiSW) - MUST SPECIFY sheet type

- Necessary to specify type of stencil sheet (Gerber data)
- Max. stencil sheet size 740 x 633 mm
- Fits into Basic frame SINGLE or TWINGO (Basic frame not included!)

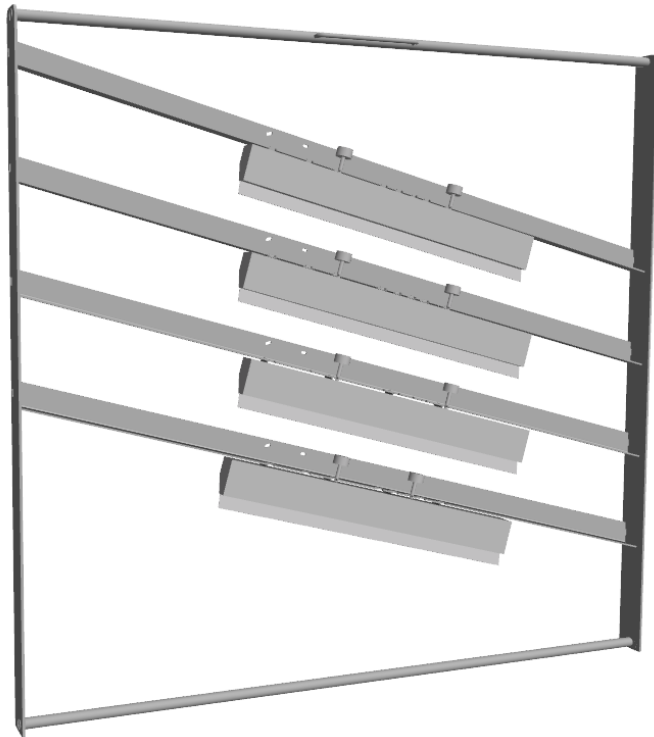


Squeegee clamping

CLP-0000020-X

Holder for 4 squeegees: DEK 152, 115; MPM 100, 146; SAMSUNG 140, 160, Juki 100, 127-into SuSW S/T, MiSW

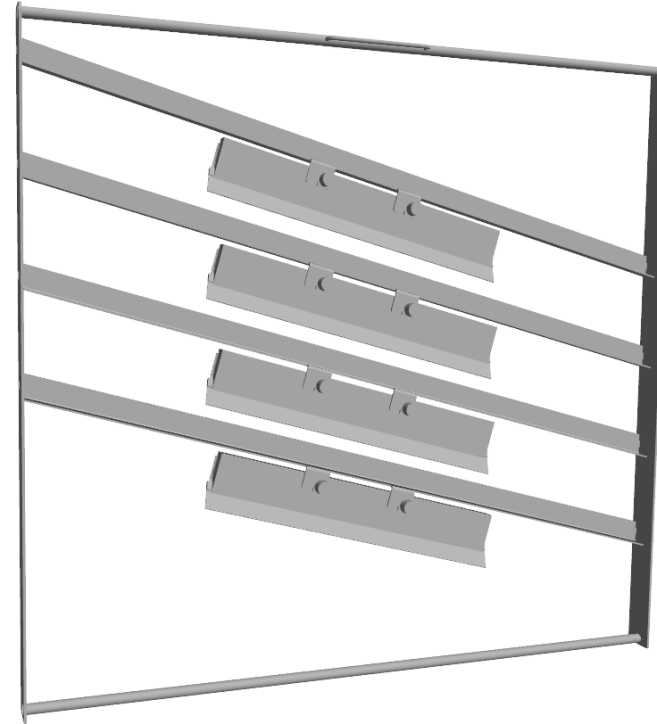
- Fits directly into machine chamber



CLP-0000021-X

Holder for 4 squeegees SAMSUNG (front screw 110-170) - directly into SuSW S/T, MiSW

- Fits directly into machine chamber

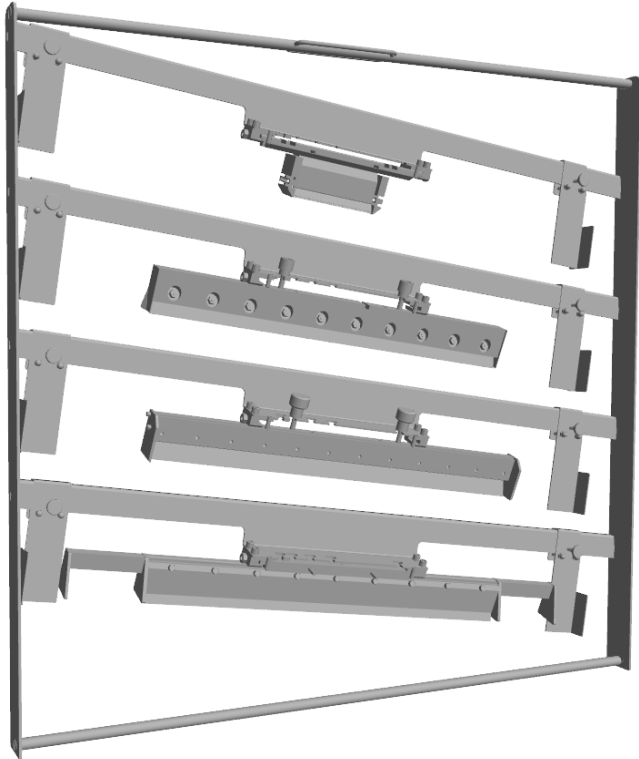


Squeegee clamping

CLP-0000022-X

Holder for 4 squeegees EKRA - directly into SuSW S/T, MiSW (bolt/click-on system)

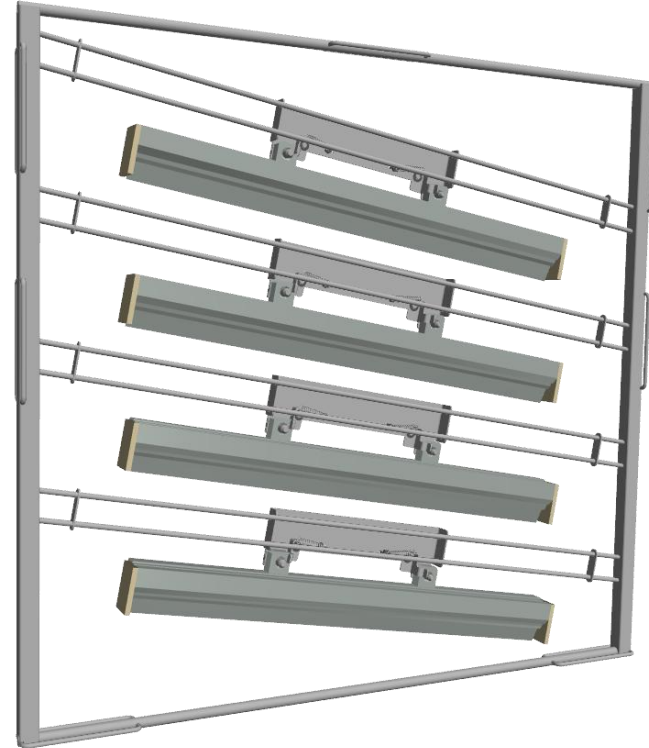
- Fits directly into machine chamber



CLP-0000023-X

Holder for 4 squeegees PANASONIC - directly into SuSW S/T, MiSW (through hole mounting)

- Fits directly into machine chamber



Packing

PKG-00000010-X

Transport wooden box incl. packing cost (MiSW) 1386 x 2300 x 1468 mm

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



MiSW SeaPack

Sea transport packaging surcharge MiSW

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



PHYTO_CERTIFICATE

Phytosanitary certificate of heat-treated wooden box

- Certificate that the wooden box meets specified import phytosanitary requirements



Spare parts packages

SPP-00000004-X

Spare parts package MiSW L1

- Consumables – set of selected sealings, o-rings, filters, mechanical filters
- Material usually used for regular maintenance



SPP-00000005-X

Spare parts package MiSW L2,3 50Hz

SPP-00000006-X

Spare parts package MiSW L2,3 60Hz

- Complex assemblies – sensors, pumps, motors, heating elements, power switches, valves, jets, chain
- Easy to challenging service





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