



PSE 300 HD

Fully automatic single chamber PowerSpray®-system with 2step process (cleaning / rinsing, drying)

Cleans Screens, stencils, solder carriers, misprints from SMD paste, flux, varnish, oil, dust, grease

Capacity: Screen, stencil, carrier, washing frame up of 950 x 780 mm (37.5 "x 31")

Part number: 0900PSE3HD

CLEANING TECHNOLOGY

Made in Germany

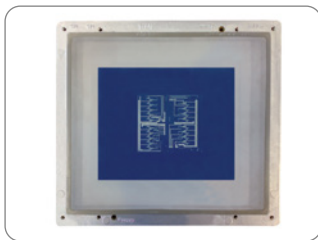


Certifications:

This water free operating system was certified in its basic version for its energy saving processing and for the standard integration of comprehensive safety features.

- Compact mono-tank system with two tank function and communicating detergent
- Waterless / independent, no water / waste water connection necessary
- Comfortable push one button operation
- Fully automatic 2step process: cleaning / rinsing, drying with HotSpeed warm air
- Vertical rotor system with two asynchronous spray rotors for thorough wetting (no blind spots)
- Optimally suited (with option DeSealing) for the cleaning of coating carriers sealed with **kolb** CarrierSeal®
- Process and service intervals PLC controlled, event issuing and software control via 3,5" touch screen
- Process sections made of electrolysis and high temperature resistant elements
- Safe installation close to the production line possible; no special protection required
- Extremely compact - maximum capacity on a very small footprint

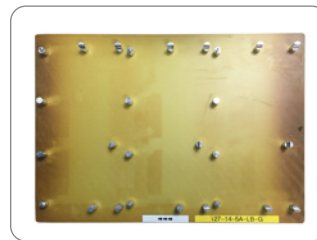
Key applications



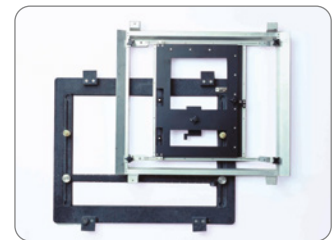
Screens



Stencils



CarrierSeal® sealed coating carriers



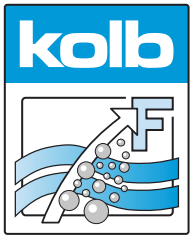
Solder carriers

The **kolb** PSE economy line is a quality series of advanced cleaning systems, which focuses on all essential criteria for a qualified cleaning process and therefore stands for attractive purchase prices.

kolb PSE 300 HD is an extremely compact first-rate performance PowerSpray® system designed and manufactured in Germany for smaller quantities with very short cycle times due to an intelligent 2step process with HotSpeed warm air drying. PSE 300 HD delivers best possible cleaning of screens, stencils, misprints and solder frames, today a prerequisite for reproducible quality in production, the reduction of expensive production stand-stills and as well for high customer satisfaction.

Ideally suited as a cost-effective system especially for the easy, quick and thorough cleaning of coating residues from carriers protected with the innovative **kolb** CarrierSeal® sealing.

The cleaning system can be operated with all common electronics cleaning supplies (detergents / chemistry, etc.) which are approved by the manufacturer.








PSE 300 HD

Fully automatic single chamber PowerSpray®-system with 2step process (cleaning / rinsing, drying)

Part number: 0900PSE3HD



Application overview

 Not suitable	 Most suitable	 Optional suitable	 Not suitable	 Not suitable
Assembled PCBs Hybrids Misprints (mounted)	Stencils Screens, PumpPrints Misprints (bare boards)	Solder carriers Solder masks Coating carriers	ESD Boxes Containers Magazines	Condensation traps Filters Steel sheets

Optional suitable applications can also be optimally realized with the appropriate options.

Cleaning / rinsing (key process 1): From the system tank a communicating cleaning and rinsing liquid is sucked by a magnetically coupled pump unit and routed with a controllable volume flow into the ASYNCHRO® spray rotors with patented PUSHFORCE® nozzles. Their geometry ensures a comprehensive and thorough cleaning, even in inaccessible and critical areas. The liquid is continuously filtered in circulation, so that the system progressively enters the rinsing process after removing the contamination.

Drying (key process 2): Drying is carried out by a HotSpeed warm air unit with fan and heating coil in a single air duct. The residual moisture on the product is evaporated at 40 - 45 ° Celsius (104 - 113 °F).

Cycle time: < 30 min., depending on contamination and detergent

Maintenance: The system has two large maintenance doors on the right and left side. The maintenance room contains, among other things, the pump-off unit, the optional decalcification cartridge with the mixing unit and the optional re-dosage unit with space for a 25 l detergent canister. The tank levels as well as pressure values and maintenance cycles are monitored by the PLC and displayed on the monitor.



PSE 300 HD

Fully automatic single chamber PowerSpray®-system with 2step process (cleaning / rinsing, drying)

Part number: 0900PSE3HD

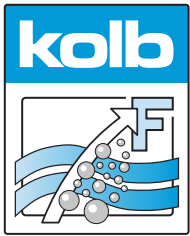


Main standard features

- PowerSpray® technology bundle: magnetically coupled S-Power pump unit, twofold ASYNCHRO® volume-spray rotorsystem with PUSHFORCE® nozzles
- EATON Programmable Logic Controller (PLC)
- High resolution 3.5" touch display
- Full flow coarse filter (process chamber)
- Fine filter for the cleaning / rinsing circuit
- ClosedLoop reprocessing of cleaning and rinsing fluid
- HotSpeed warm air drying
- Chamber exhaust system with extraction control and integrated condensate recovery system
- Safety features: safety interlock on the process chamber door, overheating protection for all heating and drying elements, end switches for all motor-driven valves and drives, personnel protection insulation
- Front cover made of stainless steel, hood, side and rear covers in powder coated steel
- Process sections made of electrolysis resistant elements

Main options

- Sediment filter for cleaning / rinsing tank



PSE 300 HD

Fully automatic single chamber PowerSpray[®]-system with 2step process (cleaning / rinsing, drying)

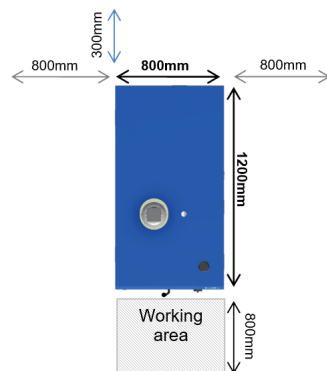
Part number: 0900PSE3HD



Technical data

Technology base	kolb PowerSpray[®]
Capacity per process cycle	Screen, stencil, carrier, washing frame up to 950 x 780 mm (37.5 "x 31")
Process chamber dimensions	W 350 • D 980 • H 920 mm (W 13.77" • D 38.85" • H 36.22")
Tank volume	ca. 75 - 100 l
Power supply	400 V AC, 16 A, CEE plug / 3 Ph / 50 or 60 Hz
Power consumption	2.5 kW
Control system	PLC (Eaton E4 XV102)
Temperature load	up to 50 °C (122 °F)
Filter system	up to four stages - 1. Prefix filter 2. Full flow coarse filter < 2 mm (0.08"), 3. Sediment filter, 4. 20" fine filter (1 - 100 µm - process dependent)
Exhaust connection	Ø 160 mm (6.3"), exhaust capacity 200 - 300 m ³ / h (7,063 - 10,595 ft ³ / h)
Footprint	800 x 1,200 mm (31.49" x 47.24")
Operating condition room temperature	20 - 35 °C (68 - 95 °F)
Operating noise	63 dB (A)
Empty weight	330 kg (728 lbs)

Top view



- Recommended maintenance area
- Space for connections

Front view

