

PS300 HD

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

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

Capacity: Screens, stencils, frames and carriers up to a size of 780 x 950 mm (31" x 37,5")

Part number: 0905300-PS-HD-C

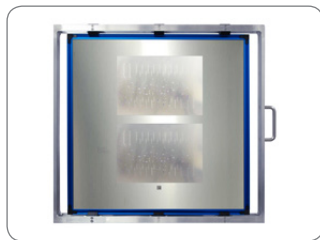


Certifications:

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 system with two circuits and two tank function
- ☐ Waterless / independent, no water / waste water connection necessary
- ☐ Comfortable push one button operation
- ☐ Fully automatic 2step process: cleaning / rinsing, drying with HotSpeed warm air drying
- ☐ Vertical rotor system with two asynchronous spray rotors for thorough wetting (no blind spots)
- ☐ Process and service intervals PLC controlled
- ☐ 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

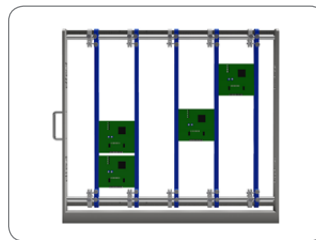
Key applications



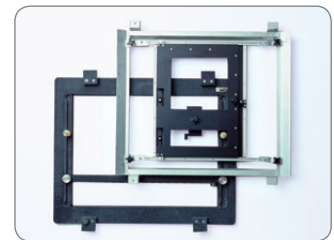
Screens



Stencils



Misprints

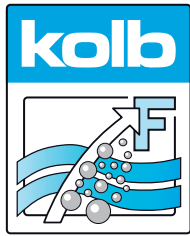


Solder carriers

kolb PS300 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.

PS300 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.

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








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Application overview

				
Optional suitable	Most suitable	Optional suitable	Not suitable	Not suitable
Assembled PCBs Hybrids Misprints	Stencils Screens, PumpPrints Misprints	Solder frames Solder carriers Solder masks	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.

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

Maintenance: The system has a large maintenance door on the right side. In the maintenance area among others the pump-out set is available. Tank levels as well as pressure values and maintenance cycles are monitored by the PLC.



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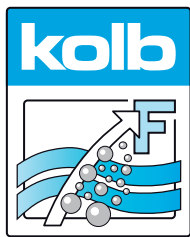


Main standard features

- ☐ PowerSpray® technology bundle: magnetically coupled pump unit, twofold ASYNCHRO® volume-spray rotorsystem with PUSHFORCE® nozzles, "Option101" softwareprogram (101 freely selectable programs)
- ☐ Magnetic coupled pump unit
- ☐ Siemens LOGO Programmable Logic Controller (PLC)
- ☐ Full flow coarse filter (process chamber)
- ☐ HotSpeed warm air drying
- ☐ ClosedLoop reprocessing of cleaning and rinsing fluid
- ☐ Safety features: safety interlock on the process chamber door, overflow alarm for all tank sections, 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, side and rear covers in painted steel
- ☐ Process sections made of electrolysis resistant elements

Main options

- ☐ Cascaded filter system
- ☐ Drip & storage reservoir
- ☐ Exhaust unit
- ☐ Full stainless steel housing
- ☐ Sediment filter for cleaning / rinsing tank



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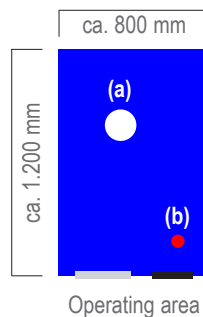


Technical data

Technology base	kolb PowerSpray®
Capacity	Screens, stencils, frames, carriers up to 80 x 950 mm (31" x 37,5")
Process chamber dimensions	W 350 ▪ D 980 ▪ H 920 mm
Volume tank	ca. 75 - 100 l
Power supply	400 V AC, 16 A CEE / 3PH / 50 or 60 HZ
Power consumption	ca. 2.2 kW
Control system	PLC (Siemens LOGO)
Temperature load	up to 55 °C
Filter system	up to three stage - 1. Full flow coarse filter < 2 mm, 2. Sediment filter inside the tank, 3. 20" fine filter (1 - 100 µm - process dependent)
Exhaust connection	Ø 160 mm, exhaust capacity 200 to 300 m³ / h
Footprint	800 x 1.200 mm
Operating noise	63 dB (A)
Empty weight	330 kg

Top view:

Space requirement
cleaning system
(a) = Exhaust 160 mm
(b) = Status light



Front view

