

Automatic Cleaning Machine Hydro-clean LDS Linear Direct Spray



Cleaning Application

- > Removing all kinds of solder residues
- Cleaning of micromechanical components
- Removing contamination from handling

and board manufacturing, FOD

Cleaning highly populated electronic
assemblies with low standoff such as BGA, FC,
CSP, BTC, QFN, MELF

Cleaning of power electronics

- Cleaning sensitive electronic devices
- One side misprints on complex assemblies
- Cleaning before conformal coating and wire bonding

Unique Advantage

- Fully automatic spray-in-air closed loop zero drain system
- > Triple capacity configuration
- Linear direct spray for equal washing of entire surface
- > 100% filtration of entire DI water
- Optional triple rinse
- Hot air knife direct dry technology
- Illuminated glass door chamber for visual process control
- All process steps with up to 5 substeps

- for highest flexibility
- Wide range of standard and customized PCBA fixtures
- > Clamping for all types of stencils
- > Up to 3 fully separated liquid loops
- Low consumption of chemicals and water
- Proportional level sensors in all processes
- > Outstanding options of water utilization



Versions by Application

Wash + Rinse I + Rinse II + Drying PCBA after soldering, PCBA before coating , power

electronics, micromechanics

Filtration Options

Zero drain concept-close loop or open loop can be set by software

Special filtration strategy for the highest flow

First rinse filtration fully separated from second rinse filtration

Technical Parameter

Machine dimension (L \times W \times H)	1 900 x 1 700 x 1930 mm
Weight (without liquid)	1000kg
Machine noisiness	LAeq <70 dB
Power supply voltage	3x 400/230 V, 50Hz
Power input	24,7 kVA
Volume of tank	70L
Working range	3-800x800mm
Washing - pressure on the nozzles max/min	2.5-3bar
Washing – max. flow	200L/min
Rinsing - pressure on the nozzles max/min	1.5-2bar
Rinsing - max. flow	180L/min

Adjustable Parameter

Steel mesh washing time	0-99 min.
PCBA+Misprints washing time	0-99min.
Washing medium temperature	Room temp 60 °C
Rinsing temperature	Room temp 60 °C
Drying temperature	Room temp 110 °C
Drying time	0-99min
Specific conductance	0-99 μS/cm (2 nd rinse)