STENCIL CLEANING

IE-4750PSW

Water-based stencil washing machine

3-YEAR FACTORY WARRANTY

Cleaning, rinsing and drying in one stainless steel unit, for stencils up to 750 × 750 × 40 mm, squeegees and misprinted boards.



750 × 750	5–10 min	2 × 50 L	0–100 °C
Max. stencil, mm	Spray cleaning	Cleaning and rinse tanks	PID tank heating

01 / OVERVIEW

Key features

Clean, rinse and dry
Designed for water-based processes: cleaning, rinsing and drying in one unit.

Scanning spray
High-pressure scanning spray technology removes contaminants completely.

Multi-functional
One unit cleans stencils, squeegees and misprinted boards.

Air-knife drying
Built-in high-pressure fan and air knives dry quickly, with no dripping.

Separate recirculation
Independent three-stage filtration for the cleaning agent and the rinse water.

PLC and touch screen
One-touch start, fully automatic operation, stainless steel construction.

02 / TECHNICAL DATA

Machine specification

PROCESS

Model	IE-4750PSW
Applicable stencil size	750 × 750 × 40 mm (L × W × H)
Feed direction	Right side of the machine
Spray cleaning time	5–10 min (solder paste; depends on the cleaning agent)
Rinsing time	2–5 min (depends on the cleaning agent)
Drying time	3–8 min (depends on the cleaning agent)
Spray pressure	0.25–0.5 MPa, cleaning and rinsing
Tanks	Cleaning and rinse tank, 50 L each; operating volume 30–45 L
Tank heating	2000 W; 0–100 °C, PID control

UTILITIES AND MACHINE

Power supply	3-phase, 5-wire, AC 380 V, 50 Hz, 12 kW
Water inlet / outlet	3/4" / 3/4"
Air supply	0.4–0.7 MPa, Ø12 mm
Exhaust port	Ø150 mm, 1 on top
Machine weight	230 kg
Machine size (L × W × H)	1120 × 880 × 2060 mm

03 / STRUCTURE AND FUNCTIONS

Main systems

Frame and housing	SUS304 square tube frame and 1.5 mm stainless steel housing, laser cut and argon arc welded. Service doors on all sides, exhaust vent on top, safety door function.
Spray chamber	2.0 mm SUS304, sloped bottom with drain; feed port on the side; glass observation window at the front.
Tanks and level control	Two SUS304 tanks with sloped bottom; electronic multi-level control with high/low alarms and automatic refill; level window at the front.
Recirculating filtration	Two systems (cleaning and rinsing), three stages each: 50 mesh, 100 mesh and 1 µm cartridges (10 inch, 3 cores), SUS304 housings.
Spray mechanism	SUS304 pump and two SUS304 spray bars, front-to-back vertical spraying; one spray bar delivers cleaning agent, rinse water and compressed air through automatic valves.
Drying system	High-pressure blower and two SUS304 air knives, front and rear, vertical: high air speed, no dead corners, no dripping from the stencil.
Scanning motion	Spray bar and air knives move back and forth on linear bearings and rails (rack and pinion), with left and right limit protection.
Liquid handling	Pump-driven automatic filling and draining of both tanks through SUS304 valves and welded piping.

04 / CONTROL

Control and software

- ✓ Mitsubishi FX series PLC and 7-inch Weintek touch screen; Omron sensors.
- ✓ Leakage, overload, under-voltage and short-circuit protection.
- ✓ Several cleaning process modes, selectable and customisable on the touch screen.
- ✓ Fully automatic control and monitoring of cleaning, rinsing, drying, filtration, liquid level, temperature and safety doors.
- ✓ Audio-visual maintenance and fault alarms, shown on the touch screen.
- ✓ Three password levels: operator, administrator and manufacturer; manual and automatic modes.

Configuration and quotation

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■ 3-YEAR FACTORY WARRANTY ON INTEON MACHINES