Fully-Automatic Ultrasonic Stencil Cleaner
SC-AH100F-LV
Low-VOC Model
Optimal Cleaning Performance

**Ultrasonic Cleaning Head**

Two ultrasonic cleaning head panels clean both the front and back sides of the metal stencil simultaneously. Ultrasonic energy is applied directly to the stencil providing superior cleaning capability.

**Simultaneous Cleaning & Drying Operation**

The ultrasonic cleaning and vacuum drying system work simultaneously. It takes 5 to 10 minutes to complete the combined process of cleaning and drying resulting in reduced energy consumption.

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Advantages of Sawa EcoBrid (1)

**Low-Running Costs**

With the Sawa EcoBrid, the cleaning agent is applied to the stencil area only, vacuum-dried, and then recycled (including filtering). Therefore, only a small amount of agent is used for cleaning. Other types of systems (dipping and spray types) require large amounts of solvent or chemical and require a frequent change out of solvent.

**No Deterioration of Stencil**

The adhesive area of the stencil is not affected by usage of cleaning agent with Sawa EcoBrid. Delamination will not occur no matter how often the stencil is cleaned. Stencil repair cost is drastically reduced.

**Fast Tact Time**

The ultrasonic cleaning and vacuum drying system work simultaneously to complete within five to ten minutes.
Advantages of Sawa EcoBrid (2)

**Powerful Cleaning Capability**

Two ultrasonic cleaning head panels clean both the front and back sides of the metal stencil simultaneously. Ultrasonic energy is applied directly to the stencil providing superior cleaning capability.

**Ease of Operation**

Just press the start button and the process of cleaning and drying will be completed. No operator handling is required.

**Low-VOC Cleaning Agent**

Low-VOC cleaning agent, VIGON SC200 can be used for Sawa EcoBrid SC-AH100F-LV. There is no flash point, low evaporation and almost no odor. A good working environment can be maintained.

**Reduction of CO2 Emission**

Sawa EcoBrid SC-AH100F-LV reduces energy consumption due to the shortened tact time and accordingly reduces CO2 emissions.
Cleaning Evaluation

Before Cleaning
- QFP 0.4 mm
- Flip chip bump φ0.2 mm
- 0402(01005)

After Cleaning
- QFP 0.4 mm
- Flip chip bump φ0.2 mm
- 0402(01005)
Other Key Features

✦ Compact Machine Footprint
✦ Ergonomic Stencil Insertion

Maintenance
Easy Replacement of Filter

Output Terminal
Squeegee/spatula cleaner can be connected as an option.

Squeegee Cleaner
SC-145A

Adaptor for 550 x 650 mm (21.65 x 25.59 in) stencil

* Signal tower is an optional item.
**Comparison (1)**

**Disadvantage of Spray-Type Cleaner**

- Inconsistent cleaning performance
- High-usage of solvent
- Long operation time
- Because this system depends on high-pressure spray, solvent used should be highly-soluble.
- Damage may occur to the stencil because solvent is applied to the entire stencil and the surrounding adhesive can be removed.
Disadvantage of Tank-Type Cleaner

- Insufficient cleaning performance
- High usage of solvent
  Frequent solvent change-out is required to maintain good cleaning capability.
- Long operation time
- Usually, no drying system included.
- The stencil may deteriorate due to cavitations and require frequent repair.

Cavitations

Cavitation
Cavitation is the formation of empty cavities in solvent caused by disuniform ultrasonic waves. Shock waves that occur by cavitation bubbles impinging against an object can damage to the adhesives of the stencil.