SMarT SONIC®

MODEL 1550
STENCIL / PALLET CLEANER

The Smart Sonic Series 1550 Stencil and Pallet Cleaner offers a very affordable alternative to the surface mount assembler requiring high quality, EPA compliance, flexibility and guaranteed performance.

The Series 1550 features the following:

- Stainless steel construction
- Ability to clean stencils up to 29 inches (750 mm) in less than 2 minutes
- Low Profile to allow easy loading and unloading
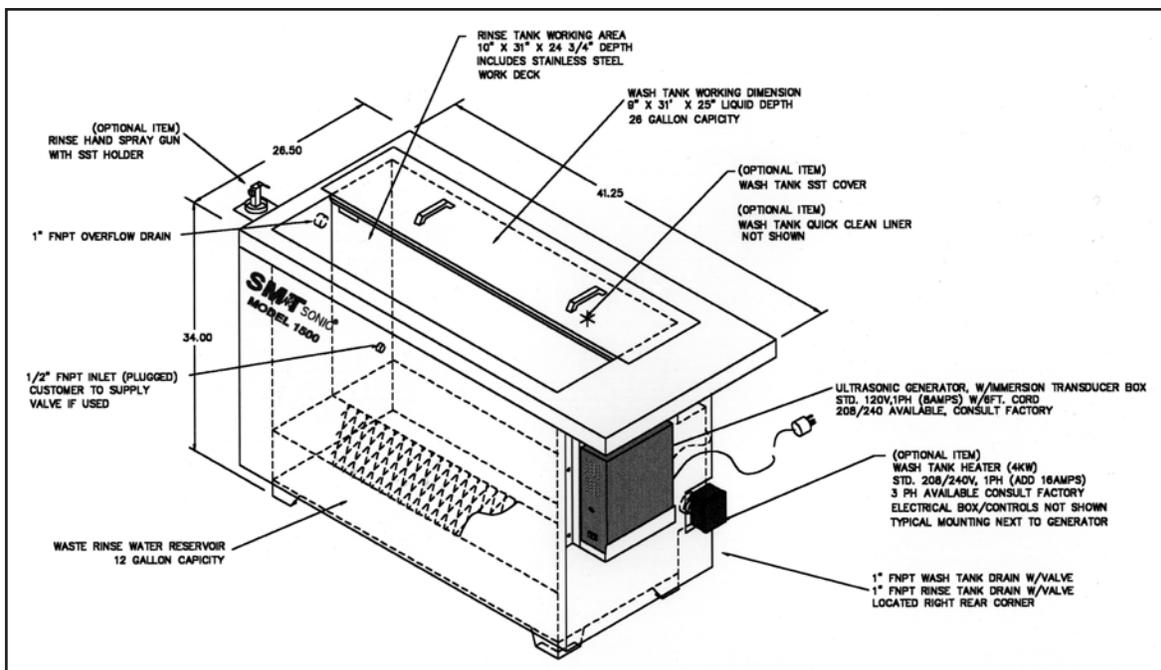- Side mounted "sweep frequency" ultrasonic transducers with 10 year limited warranty

Most importantly, the Series 1550 has the Smart Sonic performance guarantee that it will clean <u>any</u> type of solder paste from <u>any</u> fine-pitch stencil… *or your money back!*

The economical price of the Series 1550 makes it ideal if more than one cleaner is required. Dollar for dollar, the Series 1550 is the best value in ultrasonic stencil and pallet cleaning.

The Smart Sonic Stencil Cleaning Process has been evaluated for specific parameters of environmental safety, user safety and cleaning efficiency. Smart Sonic Stencil Cleaners and 440-R SMT Detergent are each winners of the SMT Vision Award. No other cleaning process has been evaluated and recognized by industry experts or have reached such high standards. Users can rest assured that their Series 1550 Stencil Cleaner incorporates the technology that has set these high standards.

The Series 1550 is compatible with all aqueous ultrasonic stencil cleaning chemistries, such as 440-R SMT Detergent. When using 440-R SMT Detergent, the wastewater may be safely evaporated in standard evaporating equipment or filtered and treated like other aqueous stencil cleaner wastewater providing the highest flexibility in waste management.

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Specifications:

	Model 1550
Overall Dimensions	34" x 45"x 35"H
Wash Tank Dimensions	6" x 31" x 27"H
Wash Tank Capacity	21 gallons (82 liters)
Maximum fame size	29" x 29" with one cycle*
	29" x 50" with two cycles
Utilities required	
Ambient wash tank	120 V, 1 Ph, 6 Amps
Heated wash tank	220-240 Volt, 1 Phase, 40 Amps
Water (with optional Hand Sprayer)	40 PSI (Soft or DI Water)
Average Cycle Time	
Wash & Rinse Wet Solder Paste	1 – 2 minutes
Wash & Rinse Dry Solder Paste	2 – 3 minutes
Wet SMD adhesives	2 – 4 minutes
Flux residue buildup (rosin)	2 – 5 minutes

440-R SMT Detergent

Recommended Concentrations	
RA solder paste	10 – 12%
RMA solder paste	10%
No Clean	6 – 12%
Lead-free	10% at ambient – 90°F (32°C)
Water washable solder paste	0 – 2%
SMD Adhesives	10% at 90°-110°F (32°-43°C)
Post solder flux buildup (rosin)	10% at 90°-110°F (32°-43°C)
Post solder flux buildup (OA)	1 – 2% (may require heat)
Hybrid Inks	Consult factory

Specifications are subject to change without notice.

Standard Included Items:

Ultrasonic Timer
Parts Basket
Heater Control Package
Wash Tank Cover
Quick-Kleen Liner
Hand-Held Spray Rinse Assembly
Power Drain
Filter Recirculator
Hand-Held Air Blow-Off

Availalbe Options: Drying Rack, Misprint Fixture, Light Tower and Alarm, Safety Drip Pan, Emergency Water Shutdown.

* If the Series 1550 totally immersed a 29-inch stencil, the wash depth would need to be at least 30 inches high and the stencil would need to be placed in a separate basket with handles above the stencil in order to keep the user's hands from contacting the wash solution. The overall height of competitive ultrasonic stencil cleaners range from 43-46 inches compared to only 35-inches of the Series 1550. Because the ergonomic design of the Model 1550 allows the loading and unloading of a 29-inch stencil without the use of a basket, the maximum lifting height for the user is only 64-inches (35" height +29" stencil = 64" lifting height). The lifting height of other ultrasonic stencil cleaners range from 78-81 inches (46" height + 29" stencil + 6" basket handles = 81" lifting height). Plus the weight of the basket! This height would require a loading platform for the user. (If a platform is required, many areas will require a handicap ramp.) The floor space required for loading and unloading could exceed the floor space required for the equipment and the weight of the basket will add to the required lifting load for the user which could require an automated hoist.

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