

# WAVE SOLDER MACHINES SPARTAN 12 SINGLE AND DUAL



## Quick Overview:

Automatic wave solder system with proven performance, self-contained fluxing, preheating and laminar (smooth) solder wave modules. Decrease labor costs by significantly reducing hand soldering.

The Spartan 12S (Single wave) and 12D (dual wave) solder machines can process printed circuit board assemblies up to 12" x 15.8" wide and require very little solder for their size. The single or dual wave soldering systems come complete with Conveyor, Foam Fluxer with Integral Air Compressor, Preheaters, and Stainless Steel Solder Pot with drain valve, and compact micro-processor Controller.

The Spartan models are compact microprocessor controlled automatic Wave Soldering Systems with proven performance. Machines can process assemblies up to 12" wide and require very little solder for their size. The single or dual wave systems come complete with Conveyor.

## Standard Features:

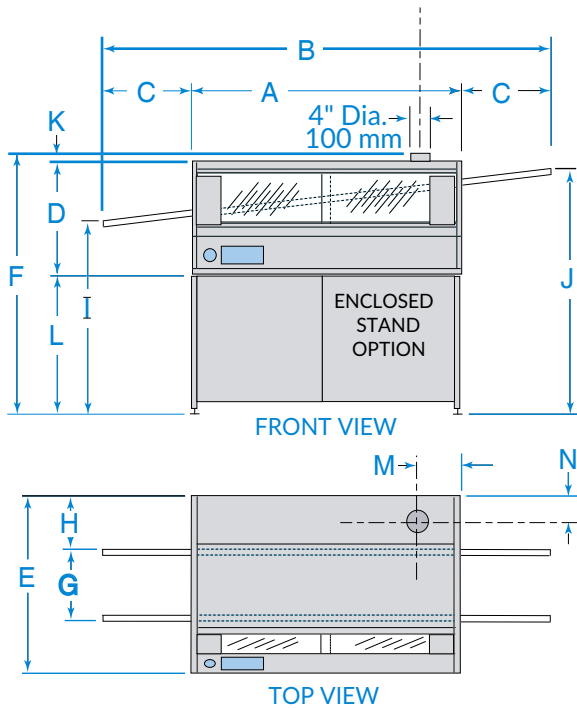
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- Single or dual wave
- Stainless steel solder pot
- Stainless steel foam fluxer
- Computer control includes:
  - 10 menu storage
  - RS 232 serial interface
  - SPC online or online data logging
  - Fault monitoring & reporting
  - Low solder indicator
- On board air compressor
- Dual preheaters with heat tunnel and forced air convection
- Wave and flux Interval sensors
- Status light tower
- Slide-out fluxer with drip tray
- Solder drain
- Compatible with VOC free fluxes
- Full one year warrantee

## Options:

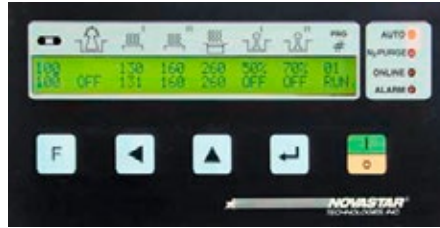
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- Lead free option
- Enclosed stand
- Flux air-knife
- Additional pallets
- Extra-long pallets
- Nitrogen inerting



## Efficient yet Economical!

The Spartan series of Wave Soldering Systems are the economic solution for easy start-up of PCB production... solid, dependable, yet cost effective.



COMPUTER CONTROL

This wave solder machine has a slide-out microprocessor with membrane keypad features onboard computer with closed-loop DC circuitry and PID control.

## Specifications

SPECIFICATIONS	(SINGLE WAVE)	8D (DUAL WAVE)	12S (SINGLE WAVE)	12D (DUAL WAVE)
Power	220 VAC, 60 Hz 1Ø, 30A	220 VAC, 60 Hz 1Ø, 40A	220 VAC, 60 Hz 1Ø, 50A	220 VAC, 60 Hz 3Ø, 20A
Foam Fluxer Tank	0.5 gal/2 ltrs	0.5 gal/2 ltrs	0.8 gal/3 ltrs	0.8 gal/3 ltrs
Solder Pot Capacit	125 lbs/57 kgs	300 lbs/136 kgs	200 lbs/90 kgs	375 lbs/170 kgs
Max Wave Height	0-3/8"/0-10 mm	0-3/8"/0-10 mm	0-3/8"/0-10 mm	0-3/8"/0-10 mm
Wave Width	8"/203 mm	8"/203 mm	11.8"/300 mm	11.8"/300 mm
Max Preheat 1 Temp	338° F/170 °C	338° F/170 °C	338° F/170 °C	338° F/170 °C
Max Preheat 2 Temp	428° F/220 °C	428° F/220 °C	428° F/220 °C	428° F/220 °C
Preheat 1 Power	2.25 kw	2.25 kw	4.0 kw	4.0 kw
Preheat 2 Power	1.5 kw	1.5 kw	2.0 kw	2.0 kw
Max Solder Pot Temp	575 °F/300 °C	575 °F/300 °C	575 °F/300 °C	575 °F/300 °C
Lead Free Pot Temp	662 °F/350 °C	662 °F/350 °C	662 °F/350 °C	662 °F/350 °C
Solder Pot Power	2.5 kw	3.2 kw	3.6 kw	5.2 kw
Approx Warm-up Time	40 min.	40 min.	50 min.	50 min.
Max Conveyor Speed	6 ft/min (2m/min)	6 ft/min (2m/min)	6 ft/min (2m/min)	6 ft/min (2m/min)
Pallets	STD: 8" x 11.4" 200 x 290 mm	STD: 8" x 11.4" 200 x 290 mm	STD: 12" x 15.8" 300 x 400 mm	STD: 12" x 15.8" 300 x 400 mm
Dim. (in/mm) A	66.5/1690	66.5/1690	79/2007	79/2007
B	96.5/2451	96.5/2451	118/2997	118/2997
C	14/355.6	14/355.6	19.5/495.3	19.5/495.3

SPECIFICATIONS	(SINGLE WAVE)	8D (DUAL WAVE)	12S (SINGLE WAVE)	12D (DUAL WAVE)
D	20/508.0	20/508.0	24/609.6	24/609.6
E	31/787.4	31/787.4	39/990.6	39/990.6
F	50/1270.0	50/1270.0	54/1371.6	54/1371.6
G	11.5/292.1	11.5/292.1	16.5/419.1	16.5/419.1
H	8.8/223.5	8.8/223.5	10.8/274.3	10.8/274.3
I	33/838	33/838	33/838	33/838
J	45/1143	45/1143	46/1169	46/1169
K	2/50.8	2/50.8	2/50.8	2/50.8
L	28/711.2	28/711.2	28/711.2	28/711.2
M	14/356	14/356	15/381	15/381
N	4.5/114	4.5/114	5/127	5/127
Venting Requirement	300 CFM /500 m3/h max., 4"/100 mm Dia. Flange			