DDM Novastar
Automated Production Systems

BENCHTOP WAVE SOLDERING

The Spartan Series 8S, 8D, 12S, and 12D

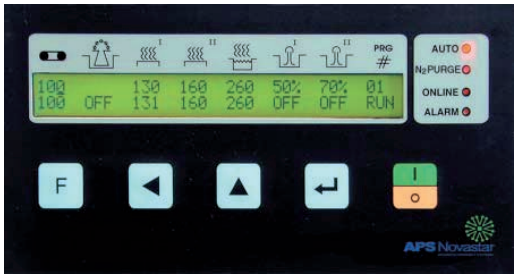
Your Economic Solution for Easy Start-Up of PCB Production

- **Decrease Labor Costs by Signifi cantly Reducing Hand Soldering**
- **Small, Space Saving Footprint**
- **User Friendly Programming and Operation**
- **Durable Construction**

Standard Features:

- Single or dual wave
- Stainless steel foam fl uxer
- Computer control includes:
  - 10 menu storage
  - Fault monitoring & reporting
  - Low solder indicator
- On board air compressor
- Dual preheaters with heat tunnel and forced air convection
- Wave and fl ux interval sensors
- Status light tower
- Slide-out fl uxer with drip tray
- Compatible with VOC free fl uxes
- Full one year warranty

LEAD FREE Soldering Capable



Computer Control

Options:

- Enclosed Stand
- Flux Air-Knife
- Additional Pallets
- Extra-Long Pallets
- Nitrogen Inerting

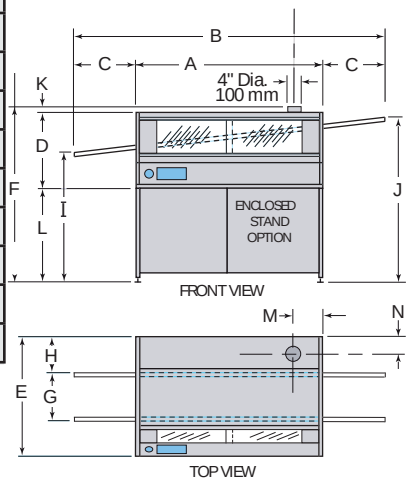
Application Note:

For thermally unbalanced / thermally challenging boards that may require longer preheat dwell time .....

Spartan Machines can be programmed to pause the conveyor in the preheat stage for up to 90 seconds, providing extended preheat time. The conveyor then continues along at standard speed.

PRODUCT SPECIFICATIONS:

SPECIFICATIONS	8S-HT (single wave)	8D-HT (dual wave)	12S-HT (single wave)	12D-HT (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, 30A
Foam Fluxer Tank	0.5gal/2ltrs	0.5gal/2ltrs	0.8gal/3ltrs	0.8gal/3ltrs
Solder Pot Capacity	125 lbs/57 kgs	200 lbs/90 kgs	250 lbs/114 kgs	375 lbs/170 kgs
Max. Wave Height	0-3/8”/0-10mm	0-3/8”/0-10mm	0-3/8”/0-10mm	0-3/8”/0-10mm
Wave Width	8”/203mm	8”/203mm	11.8”/300mm	11.8”/300mm
Max. Preheat Temp.	300°F/150°C	300°F/150°C	300°F/150°C	300°F/150°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.	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	60 minutes (Lead Solder) / 120 minutes (Lead-free Solder)			
Max. Conveyor Speed	6 ft/min (2m/min)	6 ft/min (2m/min)	6 ft/min (2m/min)	6 ft/min (2m/min)
Pallet	STD: 8” x 11.4” 200 x 290mm	STD: 8” x 11.4” 200 x 290mm	STD: 12” x 15.8” 300 x 400mm	STD: 12” x 15.8” 300 x 400mm
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
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			



Leasing Options Available...
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