Integrated SMD/PTH Soldering System Model ST-100

SONA Technologies
reliable performance, dependable service

PACE® worldwide

LEAD FREE Pb SOLDER COMPATIBLE

Scope of Supply:

- ST-100 Main Power & Control Unit
- MT-100 MiniTweez Thermal Tweezer Set
- TD-100 ThermoDrive Soldering Pencil Set

While transitioning from lead containing solders to Lead Free solders a very real problem is that most soldering operations will need to utilize Lead Free AND lead containing solders at the same time. Having only one soldering iron, or other handpiece, on the bench will ultimately lead to cross-contamination issues and result in lower productivity and potentially, higher costs. The ST 100 is a fully programmable system featuring two, individually controlled, IntelliHeat® compatible handpiece channels. The system allows for 2 soldering irons, 2 MiniTweezers or one of each to co-exist on a workbench. Color coding accessories that clearly identify which handpiece is designated for use with Lead Free and lead containing solders are available.

The ST 100 is loaded with features to improve quality, control your process, increase through-put, and extend tip life. The system is fully programmable and can be password protected to prevent unauthorized changes. When high-mass tips are used, an offset can be programmed into the system.

Technicians can become frustrated with being locked into a single temperature. Additionally, a higher set temperature is often desired when working with Lead Free solders. The ST 100 has the solution! An approved, unique, operating range or process window, can be programmed FOR EACH HANDPIECE, allowing operators the flexibility to do their work, while eliminating the risks associated with giving techs access to the entire temperature range of the system. Also, a process window can be defined for the handpiece using leaded solder, and a separate process window can be defined for the handpiece using lead containing solder. Operators can be given a range of 5 to 450°F to operate within!

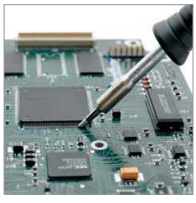
To maximize tip life and reduce operating costs, PACE's well recognized "SetBack" and "Auto-Off" features are included. The system will automatically reduce the set temperature to below solder melt temperatures, then turn off after a user defined period of inactivity, from 10 to 90 minutes each. To really protect the more expensive tip-heater cartridge and fine point soldering tips from oxidation, the TD-100 iron can be used with the PACE's "Instant-Set Back Cubby". The cubby puts the iron's channel into Set Back if it has been in the cubby for more than 45 seconds! Up to two Instant-Set Back cubbies can be connected to the ST 100.

The backlit, digital, LCD screen displays the temperature of both hand piece channels or with scan mode activated will cycle through the handpiece channels one at a time displaying set and actual temperatures. The backlight and character contrast on the display can be adjusted to meet individual preferences. Finally, the system can be programmed with the name of the operator or company which is displayed when the system is turned on.

TD-100 Thermo-Drive® Soldering Iron

The TD-100 Thermo-Drive® Soldering Iron is the only iron crafted by a team of surgical instrument engineers and is uniquely designed to eliminate operator fatigue, improve control and enhance productivity in demanding soldering applications.

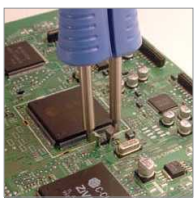
Refer to detailed Pace datasheet for various soldering tips



MT-100 MiniTweez®

The only high capacity, micro tweezer on the market today features soft comfort grips, the smallest stroke available, and its tweezing action mimics the natural motion of the human hand to eliminate hand fatigue.

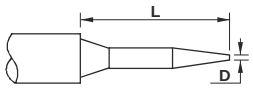
Refer to detailed Pace datasheet for various sizes inserts



Specifications

Specifications	Model ST-100
Power Source Only 230V	8007-0526
Power Requirements	197-253 VAC, 50/60 Hz, 90 Watts max.
Dimensions	135mm (5.3") **H** x 165mm (6.5") **W** x 260mm (9.25") **D**
Weight	5 Kg (11 lbs.)
Control	LCD Display & Keypad
Control Technology	IntelliHeat
Tip to Ground Resistance	2 ohms or less
Temperature Accuracy	Meets or exceeds ANSI-J-STD 001
Absolute Temperature Stability	Tip Heater Cartridge Handpiece = 205°C to 454°C (400°F to 850°F); SensaTemp® Digital Control 37°C to 482°C (100°F to 900°F)
Temperature Range	± 1.1°C (± 2 °F) at idle tip temp.
System Can Be Calibrated	Yes

Standard Tips for TD-100



Description	Tip Size - L	Size - D	Part Number
1/32" Conical Sharp Extended	13.4mm (0.530")	0.80mm (0.031")	1124-0001-P1
1/64" Conical Sharp	7.8mm (0.310")	0.40mm (0.016")	1124-0002-P1
1/64" Conical Sharp Bent 30 Degree	7.8mm (0.310")	0.40mm (0.016")	1124-0003-P1
3/64" 30 Degree Chisel	9.7mm (0.380")	1.20mm (0.047")	1124-0008-P1
13/64" Extra Large Chisel	7.62mm (0.300")	5.15mm (0.203")	1124-0010-P1
1/32" 30 Degree Chisel	9.1mm (0.360")	0.80mm (0.031")	1124-0012-P1
3/32" 30 Degree Chisel	9.9mm (0.390")	2.40mm (0.094")	1124-0013-P1
1/16" 30 Degree Chisel	9.9mm (0.390")	1.60mm (0.063")	1124-0019-P1
MiniWave®	NA	2.79mm (0.110")	1124-0049-P1

Standard Tips for MT-100

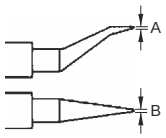


Fig. A

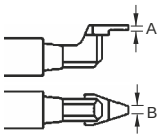


Fig. B

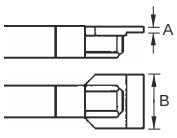


Fig. C

Component Type	Figure	Size - A	Size - B	Part Number
Chip	A	0.2mm (.008")	0.2mm (.008")	1124-1001-P1
Chip, SOT	B	0.7mm (.03")	0.5mm (.03")	1124-1002-P1
Chip, SOT	B	0.7mm (.03")	2mm (.08")	1124-1004-P1
Chip, SOT, TSOPS	C	0.7mm (.03")	6mm (.24")	1124-1005-P1
Chip, SOT, TSOPS	C	0.7mm (.03")	10mm (.39")	1124-1007-P1
Chip, SOT, TSOPS	C	0.7mm (.03")	18mm (.74")	1124-1009-P1
Chip, SOT, TSOPS	C	0.7mm (.03")	28mm (1.09")	1124-1010-P1