

## 3-in1 SMD/Thru-Hole Rework Package Model MBT301E+ST325

All requisite tools for SMD/PTH Rework in the standard package

**SONA**  
**Technologies**  
reliable performance, dependable service

**PAGE**<sup>®</sup>  
worldwide



- All inclusive package, no hassles for customer
- Developed from best of breed tools & accessories
- Covers SMD/PTH soldering & desoldering
- Ideal for service centers, Labs

**Ready-to-use package - all you need is mains input power**

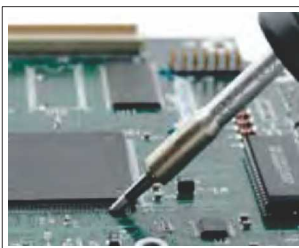
**powerful** & programmable Hot Air Reflow Station  
Temperature Controlled SMD/PTH Soldering Station  
Temperature Controlled PTH Desoldering Station

This package is a multi-function SMD & PTH Workstation that combines powerful Hot Air Pencil, Desoldering Gun and Soldering Pencil for all of your SMD and PTH soldering and desoldering needs. Various parameters like tool temperatures, airflow etc. are controlled digitally by the micro-controller based control units. Digital display shows set and actual temperatures.

### Scope of Supply:

- ST-325 Programmable Hot Air System
- ST-301 Dual Channel Main Power & Control Unit
- TD-100 ThermoDrive Soldering Pencil
- Stand for TD-100 with Cleaning Sponge & Dry Cleaner
- SX-100 Desoldering Tool
- Stand for SX-100 with Cleaning Sponge
- Cleaning Tool for SX-100

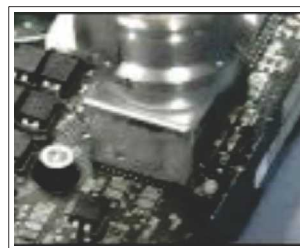
### SMD/Thru-Hole Rework Package Cover:



SMD ICs soldering



Thru-Hole desoldering



Large SMD Desoldering



Leadree & PTH soldering

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### PACE USA make SMD Hot Air System Model ST-325

#### Patented, Adjustable, Spring Loaded Vacuum Pik

The handpiece is fitted with an adjustable, spring loaded vacuum pik to lift components from the PCB and to hold the component in the nozzle during alignment.

The “give” in the spring loading is set, but the absolute position of the vacuum pik is adjustable over a 1.5" length.

The ST 325 is a digital, self-contained system that is fully programmable and can be used to remove or install surface mount components when individual or multiple operations are to be run. From the front panel, the system can be used in either manual or “timed” modes. Manual mode means that the system generates heated airflow when the cycle button is pressed; when it is pressed a second time the system shuts off. “Timed” modes allow the operator to create up to 20 “Profiles” that consist of time and temperatures parameters to ensure process control and repeatability. Both cycle start and vacuum functions are activated with conveniently located switches on the handpiece.

The ST 325 comes standard with one K-type thermocouple input that can be used to monitor the thermal environment at the work site with optional software. The system also comes with the Lo-Flo pump and the vacuum wand (PV-65) for manipulating components manually. The heavy-duty, durable metal housing ensures years of service & the sloped face of the front panel is a standard feature for ease of use. Other ST systems can be stacked on to the ST 325 to preserve bench space. The capabilities of the ST 325 can be used to rework just about any type of standard pitch SMD component when coupled with ST 500, ST 525, or ST 550.

When additional programming capability is required, such as 4 zone profile creation, an optional software package is available that can be used with a PC or laptop (1199-0019-P1). The optional software package further allows the ST 325 to control the ST 450 Preheater when bottom side heating of the PCB is required. Once the 4 zone profiles have been created with the software, they can be downloaded to the ST 325 and can be run WITHOUT the PC or laptop being connected!

The system can install standard BGA packages when fitted with the ST 500, ST 525 or ST 550, ST 450 or ST 400, and the optional PC or laptop software. Course pitch area array components are aligned using a proven, reliable template method that is easy to use



#### Features

- Multi-level password lock-out prevents unauthorized changes.
- User definable temperature zone.
- Audible countdown timer for end of cycle indication in the Timed and Program modes.
- On-screen display of parameters (temperature, time) during operation.
- Store and recall up to 20 profiles (40 with optional software).
- Quiet-Flo turbine blower offers nearly silent operation.
- Hi-Flo Vacuum Pump for holding component securely.
- Lo-Flo Vacuum Pump for component wand.

#### Technical Specifications

Specifications	ST 325
Part Number	8007-0432 ST 325E
Dimensions	134mm x 245mm x 254mm
Weight	4.5kgs (9.9lbs)
Input Supply	197-253 VAC, 50/60 Hz,
Power Consumption	575 Watts max.
Temperature Control	Closed loop,
Temperature Stability	± 9°C (±15°F) at idle tip temp.
Temperature Range	149° to 482°C nominal
Airflow Range	5-22 slpm

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## Dual Channel Soldering & Desoldering System Model MBT-301E



The MBT 301 is a multi-technology system with two, individually controlled, universal handpiece channels. The system features a two-line back lit LCD display. The programmable features include: password protection from unauthorized changes, a user definable temperature operating range, and "SetBack" & "Auto-Off" functions to preserve tip life. To protect your more expensive tip-heater cartridge and fine point soldering tips from oxidation, the TD-100 can be used with the optional "Instant-SetBack Cubby". The cubby puts the iron's channel into setback if it is idle in the cubby for more than 45 seconds! One Instant SetBack Cubby can be connected to the MBT 301.

The new dual purpose vacuum/pressure pump and delivery system featuring PACE's patented SNAP-VAC Technology, provides the most vacuum available for desoldering applications. When used with an air pencil, the high resolution, pressure control valve allows for precise adjustment when working on the smallest components such as 0201's.

### Technical Specifications

Specifications	Model MBT 301E
Kit with Handpieces Part Numbers:	8007-0479 (TD-100 & SX-100)
Power Source Only Part Numbers:	8007-0481
Power Requirements	230 VAC, 50 Hz (240 watts maximum)
IntelliHeat® Compatibility	IntelliHeat® with Tip Heater Cartridge or SensaTemp®
Dimensions	135mm (5.3") H x 165mm (6.5") W x 260mm (9.25") D
Weight	5 Kgs (11 lbs.)
Tip to Ground Resistance	< 2 Ohms
Temperature Stability	± 1.1°C (2°F)
Temperature Accuracy	Meets or exceeds ANSI J Std 001
Set Temp Range	37-482°C (100-900°F) SensaTemp®
Vacuum Rise Time	150 ms Average as measured with PACE Process Monitor
Vacuum	20 in Hg max
Pressure	18 p.s.i. max
Air Flow	8 SLPM max

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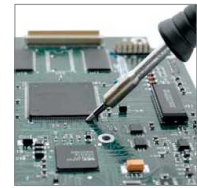
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### TD-100 Thermo-Drive® Soldering Iron

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



### SX-100 Sodr-X-Tractor®

The best performing, in-line, vacuum desoldering tool is ideal for Thru-Hole desoldering when fitted with SX-100 Desoldering Tips & for SMT pad clean-up when fitted with SX-100 Flo-D-Sodr® Tips.

Refer to detailed Pace datasheet for various sizes inserts



### 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
MiniWave®	NA	2.79mm (0.110")	1124-0049-P1

### Standard Desoldering Nozzles for SX-100









Description	Internal Dia (ID)	Outer Dia (OD)	Part Number
Thermo-Drive	0.76mm (0.030")	2.03mm (0.080")	1121-0930-P5
Thermo-Drive	1.02mm (0.040")	2.29mm (0.090")	1121-0931-P5
Thermo-Drive	1.52mm (0.060")	3.05mm (0.120")	1121-0932-P5
Thermo-Drive	2.29mm (0.090")	5.1mm (0.200")	1121-0933-P5
Thermo-Drive	4mm (0.16")	5.1mm (0.200")	1121-0951-P5

### 6 Pcs Hot Air Nozzle Set Model SON-PNS0309 for different applications

Hot Air Nozzles	Component type	Dimensions	Part Number
	SO8	5.0mm Diameter	4028-1012-P1
	PLCC28	12.5mm x 12.5mm	4028-2003
	QFP80, 100	17.5mm x 23.0mm	4028-2501-NB
	PLCC52	20.0mm x 20.0mm	4028-2006- NB
	QFP132	25.5mm x 25.5mm	4028-2503-NB
	QFP160	31.5mm x 31.5mm	4028-2504-NB

### 6 Pcs Hot Air Nozzle Set Model SON-PNS6 for different applications

Hot Air Nozzles	Component type	Dimensions	Part Number
	PLCC28	12.5mm x 12.5mm	4028-2003
	TQFP120	15.5mm x 15.5mm	4028-3004
	PLCC52	20.0mm x 20.0mm	4028-2006-NB
	PLCC68	24.0mm x 24.0mm	4028-2007-NB
	QFP132	27.0mm x 27.0mm	4028-2503-NB
	QFP240	33.0mm x 33.0mm	4028-2506-NB

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