

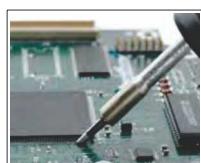
### SN-RWP-M350-PK... Integrated Packages Include:



- All inclusive package, no hassles for customer
- Developed from best of breed tools & accessories

- Covers SMD/PTH soldering & desoldering
- Ideal for service centers, Labs

### SN-RWP-M350-PK... Integrated Packages Cover:



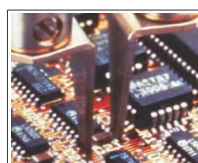
SMD ICs soldering



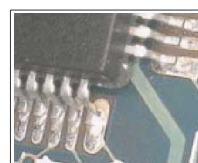
Thru-Hole desoldering



Large SMD Desoldering



SMD Chip Desoldering



Visual Inspection



Fume Extraction

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## Advanced Technology & Programmability MBT350



The MBT 350 is loaded with features to improve quality, increase through-put, extend tip life, and protect your process. The system is fully programmable and can be password protected from unauthorized changes. In some cases technicians become frustrated with being locked into a single temperature. The MBT 350 provides the solution! An approved operating range can be programmed 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. Operators can be given a range of 5 to 450°F (3-250°C) to operate within! When high-mass tips are required, an offset can be programmed for each of the three channels, individually.

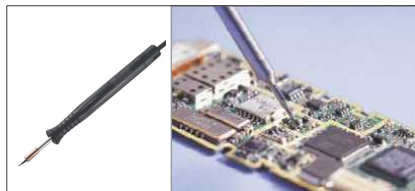
To maximize tip life and reduce operating costs, PACE's well recognized "SetBack" and "Auto-Off" features are included. The system will automatically reduce the set temperature by 50% then turn off after a user defined period of inactivity, from 1 to 90 minutes. To really protect your more expensive tip-heater cartridge and fine point soldering tips from oxidation, the TD-100 can be used with the new "Instant-SetBack Cubby." The cubby puts the iron's channel into setback if it's in the cubby for more than 45 seconds! Up to two Instant Set Back cubbies can be connected to the MBT 350.

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

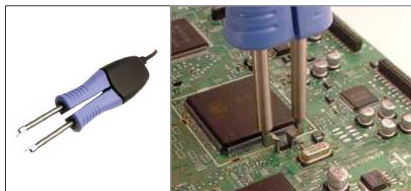


pencil, the high resolution, pressure control valve allows for precise adjustment when working on the smallest components such as 0201's.

The new backlit, digital, LCD screen displays the temperature of all three handpiece 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. And 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



MT-100 MiniTweez Thermal Tweezer



SX-100 Sodr-X-Tractor Desoldering Gun

Specifications	MBT 350
<b>IntelliHeat® Compatibility</b>	IntelliHeat® Handpieces with Tip Heater Cartridge or SensaTemp® Technology
<b>Dimensions</b>	135mm (5.3") H x 165mm (6.5") W x 260mm (9.25") D
<b>Weight</b>	5 Kgs (11 lbs.)
<b>Tip to Ground Resistance</b>	< 2 Ohms
<b>Temperature Stability</b>	± 1.1°C (2°F)
<b>Temperature Accuracy</b>	Meets or exceeds ANSI J Std 001
<b>Set Temp Range</b>	37-482°C (100-900°F) SensaTemp® 205-454°C (400-850°F) tip Heater Cartridge
<b>Vacuum Rise Time</b>	150 ms Average as measured with PACE Process Monitor
<b>Vacuum</b>	20 in Hg max
<b>Pressure</b>	18 p.s.i. max
<b>Air Flow</b>	8 SLPM max

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### 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.

**PAGE**  
worldwide

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 thermo-couple 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 and 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 remove or install just about any type of standard pitch surface mount component when coupled with the 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.

Specifications	ST 325
Part Number	8007-0429 ST 325 8007-0432 ST 325E
Dimensions	134mm (5.25") H x 245mm (10") W x 254mm (10.4") D
Weight	4.5kgs (9.9lbs)
Power Requirements	97-127 VAC, 50/60 Hz, 575 Watts max. 197-253 VAC, 50/60 Hz, 575 Watts max.
Temperature Control	Closed loop, digital temperature control
Temperature Stability	± 9°C (±15°F) at idle tip temp.
Temperature Range	149° to 482°C (300° to 900°F) nominal
Airflow Range	5-22 slpm

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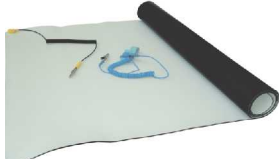






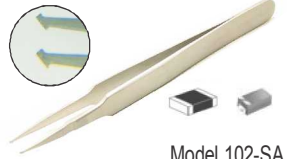
## ALL-in1 SMD/Thru-Hole Rework Packages, SN-RWP-M350-PK...

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

### Soldering & Rework Accessories and Tools in Package

<b>Tip Activator</b>  <b>Model 51303199</b> De-oxidation of black tips	<b>Solder Wire Stand</b>  for easy dispensing of solder wire	<b>Flux/Alcohol Dispensing Bottles</b>  <b>Model MS-035 &amp; ESD-DB-180</b>	<b>Soldering Aid Kit</b>  <b>Model GSR-107</b>
<b>PLCC Extractor</b> 	<b>Flux Pen</b> 	<b>Solder Wire Roll</b> 	<b>Desoldering Wick</b> PCB Pad Preparation 

### Electronics Workbench Accessories and Tools in Package

<b>ESD Mat Kit</b>  <b>Model 8BM-612A</b>	<b>Vacu-Vise Multi-angle Swivelling</b>  <b>PD-376 Vacu-Vise</b>	<b>Precision Cutter</b> Heavy duty type  <b>HT-222 Heavy Duty precision Cutter</b>	<b>ESD Safe Cleaning Brushes</b>  <b>ESD-A2 &amp; ESD-E2</b>
<b>Vacuum Pickup Pen for SMDs</b>  <b>Model ES37102</b>	<b>ESD Safe Soft Tip Tweezer</b>  <b>Model ESD-259AX</b>	<b>Superfine curved Tweezer</b>  <b>Model 7-SA</b> <i>used with hot air gun for SMD removal</i>	<b>SMD Tweezer for Chip Components</b>  <b>Model 102-SA</b>

#### PCB Holder

- Maximum PCB size: 380x380mm
- Aluminium construction



#### Vacuum Pick-up Pen Electrically-operated Model IVS-381

- ESD safe design
- Light-weight
- Adjustable vacuum upto 225mmHg
- Picks & places SMD chips, SOICs, QFPs



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### Visual Inspection Magnifiers and Systems in Package



Laptop shown is not a part of supply

No need to change  
lenses for different  
magnifications

**Single  
Zoom Lens**

Magnification	10 ~ 50x, 200x
Pixels	1.3 Megapixels
Resolution	1280 x 1024 pixels
Illumination	Built-in 8 white LED's

#### MagnaPRO35B Digital Video Microscope



#### IM-2012LED, Illuminated Magnifier with LEDs

### IRPH-4 Bottom Infrared Pre-Heating Plate

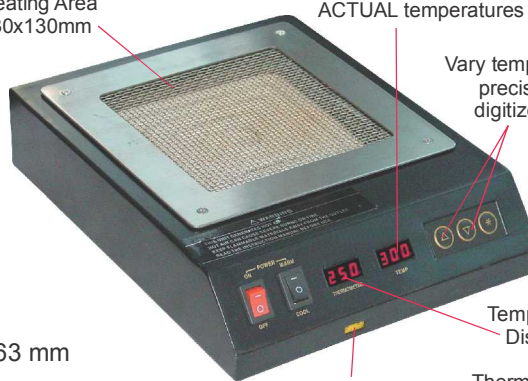
#### Specifications:

- Heating Power : 600 Watt
- Temperature Range : 50°C ~ 350°C
- Plate Area : 130 x 130mm
- Type : Infrared
- Measurement Range of Thermometer : 0 ~ 600°C
- Dimensions (approx.) : 255 x 200 x 63 mm
- Temperature Sensor : K-type Thermocouple

Heating Area  
130x130mm

Display for SET and  
ACTUAL temperatures

Vary temperature  
precisely with  
digitized Push  
Buttons



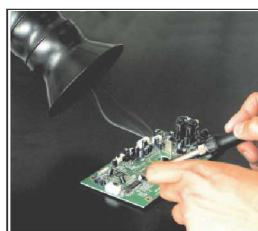
Port for external  
Thermocouple

Temperature  
Display for  
external  
Thermocouple

### Fume Extraction Systems in the Package



**Model I493**  
Benchtop  
Fume  
Absorber



Fume  
Extraction  
System  
**FumePRO201-50**

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## ALL-in1 SMD/Thru-Hole Rework Packages, SN-RWP-M350-PK...

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### Scope of Supply of Packages SN-RWP-M350-PK...

Description	SN-RWP-M350-PK1 (Qty Included)	SN-RWP-M350-PK55-DeI (Qty Included)
Pace USA Control Unit for Soldering, Desoldering Pace USA Programmable Hot Air Control Unit Hot Air Pencil with stand Soldering Pencil with 1 Soldering Tip and Stand Desoldering Pencil with 1 Desoldering Nozzle and Stand	1	1
SMD Hot Air Nozzles Set, Includes 8.5 x 21mm 15.5 x 15.5mm 20.4 x 20.4mm 23.5 x 23.5 mm 30.6 x 30.6mm 38.9 x 38.9mm	1 set	1 set
<b>Placement &amp; Circuit Board</b>		
PCB Holder	1	1
IR Preheater, IRPH-4	-	1
Vacuum Pickup, Electric, IVS-381	1	1
<b>Fume Extraction</b>		
Fume Absorber, I493	1	-
Fume Absorber, FumePro201-50	-	1
<b>Visual Inspection</b>		
Table Top LED magnifier (IM-2012LED)	1	1
Visual Inspection (videoscope dinolite)	-	1
<b>Soldering Accessories</b>		
Solder Wire Stand	1	1
Solder Wire Roll, 250g	2	2
Desoldering Wick	3	3
Tip Activator	1	1
Flux Pen	2	2
Flux Bottle	2	2
Dispenser Bottle	2	2
Soldering Aid Kit	1	1
PLCC Extractor	1	1
<b>WorkBench Accessories</b>		
Vacu Vice	1	1
ESD Mat Kit	1	1
SMD Vacuum Pick-up Pen	1	1
Fine Tip Curved Tweezer	2	2
ESD Safe Soft Tip Tweezer	1	1
SMD Tweezer	1	1
Cutting Pliers	2	2
ESD Safe Cleaning Brush, A2	2	2
ESD Safe Cleaning Brush, E2	2	2

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## PACE Handpieces



### 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.

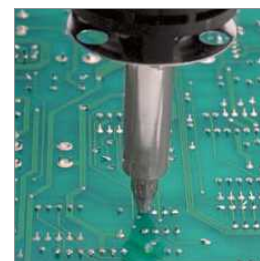
*Refer to detailed Pace datasheet for various soldering tips*



### 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 and for SMT land clean-up when fitted with SX-100 Flo-D-Sodr® Tips.

*Refer to detailed Pace datasheet for various desoldering nozzles*



### 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*



## Recommended Hot Air Nozzles for different applications

	Order Code	Dimensions	Suitable for
	4028-2506	34.6mm x 34.6mm	QFP 240
	4028-2503	26.9mm x 26.9mm	QFP132
	4028-2507	23.5mm x 23.5mm	BQFP100
	4028-2508	20.9mm x 20.9mm	BQFP84, PLCC52
	4028-3004	15.5mm x 15.5mm	TQFP120
	4028-3002	11.5mm x 11.5mm	PLCC32
	4028-2002	10.2mm x 10.2mm	PLCC20, QFP84, C-QFP24


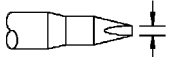


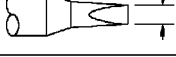
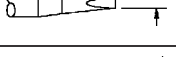

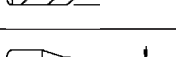
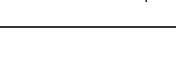
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### Recommended Soldering Tips for different soldering applications

	Order Code	Type	Size	Suitable for
	1128-0001-P1	Conical Long	0.8mm	This is the best recommended tip for SMD soldering
	1128-0002-P1	Conical	0.4mm	This tip is used for touch-up reworking
	1128-0003-P1	Conical Bent	0.4mm	This tip is used for difficult-to-access areas soldering on PCB
	1128-0008-P1	Chisel	1.19mm	This tip is used for soldering of small thru-hole components
	1128-0010-P1	Chisel	5.15mm	This tip is used for high mass soldering on PCB
	1128-0012-P1	Chisel	0.8mm	This tip is used for fine soldering applications
	1128-0013-P1	Chisel	2.38mm	This tip is used for normal soldering applications
	1128-0019-P1	Chisel	1.57mm	This tip is used for general soldering applications
	1128-0032-P1	MiniWave	2.79mm	This tip is used for soldering of SMD Components
	1128-0037-P1	Knife	6.35mm	This tip is used for touch-up soldering
	1128-0051-P1	Chisel	3.2mm	This tip is used for soldering of PTH on multilayer PCBs

### Recommended Desoldering Nozzles for different applications

	Order Code	Dimensions	Suitable for
	1121-0931-P5	1.02mm ID x 2.29mm OD	for leaded components of 0.8 mm dia
	1121-0932-P5	1.52mm ID x 3.05mm OD	for components from multilayer PCBs
	1121-0933-P5	2.29mm ID x 5.1mm OD	for high mass solders and connector pins etc.
	1121-0936-P5	1.02mm ID x 2.54mm OD	for removing components from difficult-to-access areas
	1121-0930-P5	0.76mm ID x 2.03mm OD	for leaded very thin components of 0.6mm dia

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