





SOLDERING DESOLDERING & REWORK

LEAD FREE COMPLIANT AND COMPATIBLE









SOLUTIONS FOR THE ELECTRONICS INTERCONNECTION PROCESS





HEAT TECHNOLOGY

TIP HEATER CARTRIDGE & SENSATEMP TECHNOLOGY

IN TODAY'S ENVIRONMENT FLEXIBILITY ISN'T JUST IMPORTANT, IT'S THE KEY TO SUCCESS...

Component foot-prints are shrinking, through-put requirements are increasing, and thermally massive power management components (connectors, heat sinks, RF shields, and SMDs) on heavy ground planes **are not** going away anytime soon. Oh yes, let's not forget about the challenges of incorporating Lead Free solders into your process! Being locked into one heat control technology on your Soldering/Desoldering system isn't going to open the door to your success...

The ability to have multiple heating technologies available within a single system directly affects your bottom line. Until now, most systems only offer one type of heating technology which will never fit every application efficiently. The time has come for soldering and desoldering systems to evolve.



....FLEXIBILITY DRIVES THROUGH-PUT!

PACE is proud to introduce your key to future success...The INTELLIHEATTM Control System. IntelliHeat is the only thermal control system capable of managing multiple types of heating technologies within a single Power Source. There is no longer a need to have multiple Power Sources on your work bench or to force operators to use only one heating technology. Simply plug in any compatible handpiece and IntelliHeat does the rest.

The IntelliHeat Control System allows either SENSATEMP® or Tip-Heater Cartridge based technology handpieces to be plugged into a single Power Source. Finally, the benefits of SENSATEMP® and Tip-Heater Cartridge based technology can be found in a single system, without restriction.

PACE's legendary SENSATEMP® technology is renowned for its temperature stability and ability to handle high mass applications. For smaller components and when through-put is important, there is Tip-Heater Cartridge based technology. Tip-Heater Cartridge based technology is a patented technology that boasts the best response time for high volume applications and easily keeps up in a fast paced environment.

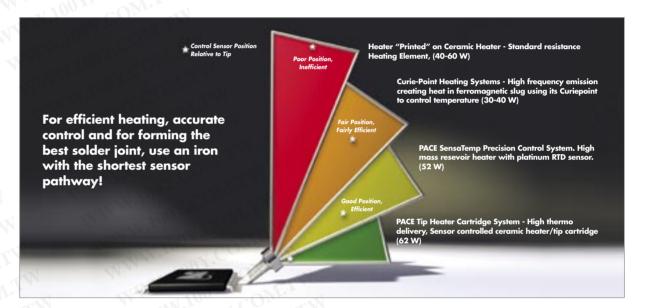
Upgrade your equipment, clear off your work bench and unlock your success with INTELLIHEAT^{IM}!

With over 50 years of experience and industry leadership in rework and repair technology and techniques, PACE provides much more than simply equipment. When you purchase PACE products, you receive access to one of the most valuable resources in the industry; PACE's applications and technical support services. Over the years, our applications support services have been the cornerstone of quality assurance and repair reliability for countless customers. Whenever you encounter a new component, a new PCB, lead Free Solder, or if you just want reassurance that your process is safe and effective, simply contact PACE and we will create a procedure for you that not only identifies the equipment required to do the job correctly, but also every step in the process!

TABLE OF CONTENTS

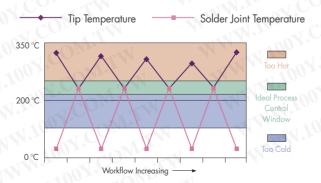
PAG	
2	INTRODUCTION & TABLE OF CONTENTS
3	PACE HEATING TECHNOLOGY
4	INTELLIHEAT COMPATIBLE HANDPIECES
6	HANDPIECE AND POWER SOURCE CHARTS
7	ST 30, ST 50 AND ST 70 SYSTEMS
8	ST 100 SYSTEM
9	INSTANT SETBACK CUBBY & LEAD FREE ACCESSORIES
10	ST 65, ST 75 AND ST 115 POWER SUPPLIES
11	ST SYSTEMS SPECIFICATIONS
12	MBT 301
13	MBT 350
14	ST 25, MBT 250 AND PRC 2000
15	LEAD FREE SOLDERING
16	SOLDERING WITH NITROGEN
17	NITROGEN ASSISTED SOLDERING ACCESSORIES
18	TD-100 STANDARD TIPS
20	TD-100 DIAMOND SERIES TIPS
21	TD-100 SMT REMOVAL TIPS
22	MT-100 & TP-100 SMT REMOVAL TIPS
23	PS-90 SOLDERING TIPS
24	PS-90 SMT REMOVAL TIPS
25	SX-90 DESOLDERING/SOLDER REMOVAL TIPS
26	TT-65 SMT TIPS AND TJ-85 NOZZLES
27	PRODUCT PAGE

TIP-HEATER CARTRIDGE TECHNOLOGY The key advantage of Tip-Heater Cartridge based technology is that its advanced electronics provide instantaneous load sensing and on-demand power to quickly reflow solder joints, regardless of the mass of the application. Further, the position of the control sensor is as far forward as possible to immediately respond to the thermal demand of the work. The tip and heater are permanently coupled, ensuring all the heat generated by the heater is available for use by the tip. For applications where the work cycle is high and for micro-miniature applications the direct power approach is ideal as the thermal demand is continuously monitored and the heater responds immediately by providing adequate power to meet the demand from the work, without overshoot.



MAINTAINING PERFORMANCE IN THE "GREEN" ZONE IS MORE LIKELY AS SENSOR PATHWAY BECOMES SMALLER

IDEAL IRON PERFOMANCE



SENSATEMP[®] **TECHNOLOGY** At the heart of SensaTemp is a laser trimmed, platinum RTD sensor that is more than 5 times more accurate than conventional thermo-couples. This level of accuracy allows for safe, productive soldering at the lowest possible temperatures. As a result, the amount of time spent reflowing each joint is reduced, minimizing the possibility of damage. Additionally, SensaTemp allows you to change tips, heaters and handpieces at will, without ever having to re-calibrate! SensaTemp's unique heater design acts as a thermal dampener that minimizes tip temperature overshoot, ensures temperature stability and creates a "thermal reservoir" that can be accessed instantaneously when high mass applications are being performed.

SensaTemp delivers consistent, repeatable results regardless of the thermal demand of the work. Its ability to respond quickly is ideal for light work, while its amazing thermal capacity can meet the challenges of the heaviest thermal loads, providing the operator with the flexibility that is essential in today's ever changing environment. Regardless of your application, SensaTemp delivers unsurpassed thermal performance, productivity and "bottom line" savings.







INTELLIHEAT COMPATIBLE HANDPIECES

TIP-HEATER CARTRIDGE HANDPIECES PERFECT FOR LEAD FREE



INTELLIHEAT COMPATIBLE HANDPIECES

VERSATILITY, PERFORMANCE AND VALUE SENSATEMP 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. The TD-100 uses a patented Tip-Heater Cartridge that is the best performing and lowest priced Tip-Heater Cartridge on the market today! Almost 100 soldering tip geometries are available as well as over 30 surface mount removal tips. See Pages 18-21 for tip selection.

Shown with optional comfort grip 6993-0241-P1



MT-100 MINITWEEZT

The only high capacity, micro tweezer (MT-100 $MiniTweez^{TM}$) 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. With 10 styles of component removal tips available, the MT-100 is one of the most versatile component removal tweezers and our tips cost less than half of our competitors!

See Page 22 for tip selection.



THERMOPIK® 100

The newest tool for SMT component removal the ThermoPik® 100. The TP-100 is designed to reflow and remove QFPs in seconds. The integrated vacuum pik lifts the component from the PCB upon reflow. Based on our unique MT-100 handpiece, there isn't another SMT removal tool that is more comfortable in your hand. Over 10 styles of tips are available.

See Page 22 for tip selection.



PS-90 UNIVERSAL SOLDERING IRON

The Universal Soldering Iron (PS-90) is ideal for most soldering applications and SMT rework operations where high thermal capacity and flexibility are required. The PS-90 features a rugged plug in heater with gold contacts. There are 15 single point soldering tips and over 10 surface mount removal tips available for the PS-90.

See Pages 23-24 for tip selection



SX-90 SODR-X-TRACTOR®

The best performing, in-line, vacuum desoldering tool (SX-90 Sodr-X-Tractor®) is ideal for Thru-Hole desoldering when fitted with SX-90 Desoldering tips and for SMT land clean-up when fitted with SX-90 Flo-D-Sodr® tips. SX-90 Desoldering tips are the longest lasting, best performing desoldering tips on the market! The SX-90 features a unique solder collection system that can utilize disposable Flux/Solder traps or a reusable glass collection chamber. An operator replaceable plug-in heater cartridge that can be changed in seconds is standard. There is a wide range of standard and precision SX-90 Desoldering tips for when access is tight! See Page 25 for tip selection.



TT-65 THERMOTWEEZ®



The most versatile and only patented SMT removal tool (TT-65 ThermoTweez®) provides safe, one-handed, rapid reflow and component removal of PLCCs and other 4 or 2 sided SMT components. Unlike other methods, its high thermal capacity and targeted heat delivery remove even the largest SMDs in just seconds without damaging the PCB or risking of adjacent component reflow; even on heavy assemblies. The patented vertically oriented handpiece and a wide variety of guick-change, slim-line tips easily reach into the tightest spaces for fast, safe component removal. The TT-65 also features a patented "stroke" adjustment to reduce hand fatigue for repetitive operations. See Page 26 for tip selection.



TJ-85 THERMOJET®



When the precise application of hot air is required, our slim line air pencil (TJ-85 ThermoJet®) is ideal for delivering heat for the installation and removal of chip components, SOTs, and SOICs. Multiple quick-change nozzle sizes are available. The handpiece's slim line, pencil grip design maximizes operator comfort and control. The TJ-85's airflow is actuated with a foot pedal. Ideal for the precise application of hot air for large SMDs down to 0201s.

SOLUTIONS FOR THE ELECTRONICS INTERCONNECTION PROCESS

See Page 26 for nozzle selection.









HANDPIECE & POWER SOURCE CHARTS

CHOOSE THE RIGHT INTELLIHEAT HANDPIECE FOR YOUR APPLICATION

ST SYSTEMS

PRODUCTION SOLDERING STATIONS ST30, ST 50 & ST 70 POWER SUPPLIES

HANDPIECES

Part Number includes handpiece and standard cubby *Does not include Handpi					
DESCRIPTION	PART NUMBERS				
The most responsive soldering iron available. Uses tip-heater cartridges.	6993-0263-P1				
A nitrogen compatible version of the TD-100. Requires 6993-0271-P1.	6993-0272-P1				
A kit containing the TD-100 and Instant SetBack Cubby	6993-0281-P1				
Tip-heater cartridge based tweezer for 2 sided SMD removal.	6993-0264-P1				
QFP removal tool with integrated component vacuum pick to lift reflowed component.	6993-0280-P1				
Our famous High Capacity Soldering Iron for the most demanding applications.	6993-0267-P1				
A nitrogen compatible version of the PS-90.	6993-0274-P1				
The latest innovation in desoldering. Features disposable or reuseable solder traps.	6993-0266-P1				
High capacity tweezer for large or small SMDs.	6993-0268-P1				
A foot-pedal activated precision air pencil for the installation or removal of SMDs.	6993-0270-P1				
Maintains comfortable temperature in heavy use applications.	6993-0229-P1				
Reduces tip temperature when iron is not in use.	6019-0077-P1				
Controls the flow of nitrogen to tip.	6993-0271-P1				
Connect up to 10 N_2 irons to a single N_2 source.	6993-0277-P1				
	The most responsive soldering iron available. Uses tip-heater cartridges. A nitrogen compatible version of the TD-100. Requires 6993-0271-P1. A kit containing the TD-100 and Instant SetBack Cubby Tip-heater cartridge based tweezer for 2 sided SMD removal. QFP removal tool with integrated component vacuum pick to lift reflowed component. Our famous High Capacity Soldering Iron for the most demanding applications. A nitrogen compatible version of the PS-90. The latest innovation in desoldering. Features disposable or reuseable solder traps. High capacity tweezer for large or small SMDs. A foot-pedal activated precision air pencil for the installation or removal of SMDs. Maintains comfortable temperature in heavy use applications. Reduces tip temperature when iron is not in use. Controls the flow of nitrogen to tip.				

KITS & APPLICATIONS	Tip Heater C	artridge Technolog	y Handpieces		SensaTemp Techn	ology Handpieces	
KITS & APPLICATIONS	TD-100	MT-100	TP-100	PS-90	SX-90	TT-65	TJ-85
Handpiece Kits (includes handpiece and tool stand)	6993-0263-P1 6993-0281-P1	6993-0264-P1	6993-0280-P1	6993-0267-P1	6993-0266-P1	6993-0268-P1	6993-0270-P1
Handpiece Only Part Number	6010-0147-P1	6010-0148-P1	6010-0158-P1	6010-0150-P1	6010-0149-P1	6010-0151-P1	6010-0153-P1
High Cycle Soldering	1			N. A.	100	COL	-XN
Standard Soldering	1			1	11/10.	N.O.	13.4
High Mass Soldering				M	10		
Micro Soldering	1					101.	
Chip Installation	1	1		1		40	100
Solder Wicking	1			/	MAIN .	100 1.	O. No.
Thru-Hole Desoldering					MIN	N.	
SMT Land Preparation	1			1	4/1	1 100	COX.
Solder Removal from Lands					4	003	- 1
Large SMD Removal			1			W. No	COL
Standard SMD Removal	1	1	1	1		1,00	1.00
Micro SMD Removal	1	1		1			~100
Large Component Installations*	1			1		110	1021 40
Standard Component Installations*	1			1			1

INTELLIHEAT POWER SOURCE & HANDPIECE COMPATIBILITY

*with Solder Past

	Power S	Source Options	s - ST and MBT	Γ Systems ✓=	Optional Hand	dpiece ★ = Sta	ndard handpie	ce packaged wi	th System
TIP-HEATER CARTRIDGE HANDPIECES	ST 30	ST 50	ST 65	ST 70	ST 75	ST 100	ST 115	MBT 301	MBT 350
• TD-100	*	*	1	*	1	*	1	*	*
• MT-100	1	1	1	✓	1	/	1	1	* *
• TP-100			/		/		/	1	1
SENSATEMP HANDPIECES	ST 30	ST 50	ST 65	ST 70	ST 75	ST 100	ST 115	MBT 301	MBT 350
• PS-90	1	*	1	√	1	/	1	1	1
• SX-90			*		*		*	*	*
• TT-65	1	1	1	1	1	/	1	1	
• TJ-85					1		1	1	1

FEATURES:



- IntelliHeat Control Technology
- °C/°F Temperature Scales Temperature Adjustment Lockout
- ESD grounding jack ESD Safe metal housing
- Stackable
- Can be mounted under workbench or shelf with optional bracket

FEATURES:



- IntelliHeat Control
 - Technology

1321-0609-P1

- Digital Display & Keypad C/∘F display options
- Password lockout
- Temperature SetBack
- Auto-Off
- Definable operating temperature range
- ESD grounding jack
- ESD Safe metal housing
- Stackable
- Can be mounted under workbench or shelf with optional bracket 1321-0609-P1

FEATURES:



- IntelliHeat Control Technology
- Performance level lockout (if Power Module is removed the system is shut down.) ESD grounding jack
- ESD Safe metal housing
- Stackable
- Can be mounted under workbench or shelf with optional bracket 1321-0609-P1
- Supplied with 6.5, 7 and 7.5 Power Modules

The ST 30 is a single channel system with dial control featuring IntelliHeat. The system is packaged with the TD-100 ThermoDrive Soldering Iron or can be purchased as a Power Source only and combined with any of 4 optional handpieces. The ST 30 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. The heavy-duty metal housing makes this system the ideal choice for the harshest environments and the sloped face of the front panel is a standard feature for ease of use. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space. The optional Instant-SetBack Cubby is available for the TD-100 ThermoDrive Soldering Iron to extend tip life, especially beneficial when Lead Free solders are used.

The ST 50 is a single channel, digital power supply that is available with the TD-100 ThermoDrive Soldering Iron or PS-90 SensaTemp Soldering Iron. The ST 50 can also be purchased as a Power Source only and combined with any of 4 optional handpieces. The programmable features of the ST 50 cannot be found anywhere on similarly priced systems! The ST 50 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. The ST 50 features IntelliHeat Control Technology. 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. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space. The optional Instant-SetBack Cubby is available for the TD-100 ThermoDrive Soldering Iron to extend tip life, especially beneficial when Lead Free solders are used.

The ST 70 is a single channel system that is controlled by POWER MODULES™ and comes with the ThermoDrive Soldering Iron (TD-100). The system can also be purchased as a Power Source only and combined with any of 4 optional IntelliHeat handpieces. The ST 70 is the easiest to operate. Simply select the performance level you desire, plug in the appropriate Power Module and the system takes care of the rest! The ST 70 improves quality, reduces costs while protecting your process. The heavy-duty metal housing makes this system the ideal choice for the harshest environments and the sloped face of the front panel is a standard feature for ease of use. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space. The optional Instant-SetBack Cubby is available for the TD-100 ThermoDrive Soldering Iron to extend tip life, especially beneficial when Lead Free solders

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POWER MODULE	PART NUMBER	COLOR
Heat Level 5	1207-0446-01-P1	Green
Heat Level 5.5	1207-0446-02-P1	Blue
Heat Level 6	1207-0446-03-P1	Orange
Heat Level 6.5	1207-0446-04-P1	Gold
Heat Level 7	1207-0446-05-P1	Red
Heat Level 7.5	1207-0446-06-P1	Purple
Heat Level 8	1207-0446-07-P1	Black
Heat Level 8.5	1207-0446-08-P1	Silver





Micro Component Installations*





SOLDERING & REWORK SYSTEMS



LEAD FREE ACCESSORIES

CUSTOMIZE YOUR SYSTEM FOR EVEN GREATER FLEXIBILITY

ST 100 THE ANSWER FOR THE LEAD FREE **SOLDER TRANSITION...**

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 crosscontamination 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-SetBack Cubby". The cubby puts the iron's channel into SetBack if it has been in the cubby for more than 45 seconds! Up to two Instant-SetBack cubbies can be connected to the ST 100.

The backlit, digital, LCD screen displays the temperature of both 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. Finally, the system can be programmed with the name of the operator or company which is displayed when the system is





The optional INSTANT-SETBACK CUBBY is available for use with the ST 30, ST 50, ST 65, ST 70, ST 75, ST 100 and ST 115. When connected, it automatically puts the system into SetBack mode when the TD-100 Iron has been in the cubby for 45 seconds. SetBack mode means that the temperature is set to just below solder melt temperature so the corrosive action of the leaded or Lead Free solder is stopped, maximizing the life of your tips! The system returns to normal operation when the iron is removed from the cubby. The part number for the Instant-SetBack Cubby is 6019-0077-P1. The Instant-SetBack Cubby is also available for use with the TD-100 fitted with the Green Lead-Free moulded Comfort Grip as part number 6019-

LEAD FREE IDENTIFIABLE During the transition from leaded to Lead Free solders, it will not be uncommon to be using both types of solders at the same time. To assist in reducing cross contamination of soldering tools and to keep additional tips separated on a workbench, PACE is pleased to offer a variety of options to clearly identify handpieces and tool stands being used with Lead Free solders. The handpieces are identified by green comfort grips and the tool stands are identified with green cubbies. These options are available for the TD-100, MT-100 and PS-90 handpieces in the following configurations.











SOLDERING & REWORK SYSTEMS

ST 65, ST 75 & ST 115 POWER SUPPLIES

PO TO THE PORTE

PACE REWORK AND REPAIR

8007-0504

N/A

ST SYSTEM SPECIFICATIONS

ST 100

8007-0525

N/A

The **ST 65** is a single channel, dial control power supply that is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 Sodr-X-Tractor or as a Power Source only. Featuring a powerful multistage venturi that is powered by your compressed air source, the ST 65 is ideal for application where continuous vacuum or pressure is required. An $\rm N_2$ source can be connected to create an inert gas reflow environment when using an $\rm N_2$ capable soldering iron. 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. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space. $\rm N_2$ capable soldering iron.

FEATURES:

- IntelliHeat Control Technology
- Dial control
- °C/°F Temperature Scales
- Temperature lockout
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD Safe metal housing
- Stackable
- Can be mounted under workbench or shelf with optional bracket 1321-0609-P1



The **ST 75** and **ST 115** are ideal for users having to deal with wide ranges of applications. With these systems, you can solder, desolder, remove components with a variety of tweezers and thermo-piks, as well as make use of the high performance, foot pedal activated, air pencil. The systems come standard with PACE's patented SNAPVAC desoldering technology to ensure quick, clean removal of solder from any throughhole joint. The Hi-Flo pump is so powerful that you won't lose vacuum in continuous use applications when removing residual/excess solder from surface mount leads. The new, high resolution pressure control valve delivers the widest range of adjustable airflow available on the market today. So if you're using the new TJ-85 to reflow a PLCC or an 0201 resistor, you always have the precise level of control that you need to get the job done right!

ST 75 A single channel, dial control power supply, the ST 75 is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 or as a Power Source only. The ST 75 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. 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.

ST 115 A single channel, digital display, fully programmable power supply, the ST 115 is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 or as a Power Source only. The programmable features of the ST 115 cannot be found anywhere on similarly priced systems! The ST 115 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. 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.

FEATURES:

- IntelliHeat Control Technology
- Dial control
- °C/°F Temperature Scales
- Temperature lockoutHi-Flo Pump
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD grounding lack
 ESD Safe metal housing
- Stackable



FEATURES:

- IntelliHeat Control Technology
- Digital Display & Keypad°C/°F display options
- Password lockout
- Temperature SetBack
- Auto-Off
- User defined operating temperature range
- Hi-Flo Pump
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD Safe metal housing
- Stackable

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Power Source Only 115v	8007-0497	8007-0501	8007-0505	8007-0524			
System with TD-100 230v	8007-0512	8007-0514	8007-0518	8007-0527			
System with PS-90 230v	N/A	8007-0533	N/A	N/A			
Power Source Only 230v	8007-0513	8007-0515	8007-0519	8007-0526			
Power Requirements	97-12	7 VAC, 50/60 Hz, 90 V	Vatts max. 197-253 VAC	, 50/60 Hz, 90 Watts max.			
Dimensions	104mm H x 130mm W x 152mm D 135mm H x 165mm W x 2 (4.1" H x 5.1" W x 6.0" D) (5.3" H x 6.5" W x 9.2						
Weight	13			5 Kg (11 lbs.)			
Control	Dial	LED Display	Power Module	LCD Display & Keypad			
Control Technology	an.		IntelliHeat				
Tip to Ground Resistance	O. UN		2 ohms or less				
Temperature Accuracy	Meets or exceeds	s ANSI-J-STD 001	N/A	Meets or exceeds ANSI-J-STD 001			
Absolute Temperature Stability	Co	± 1.1	°C (± 2 °F) at idle tip tem	p.			
Temperature Range	Tip Heater Cartridge Technology Handpieces = 205° to 454°C (400° to 850°F) SensaTemp Dial Control 176°C to 482°C (350°F to 900°F) SensaTemp Digital Control 37°C to 482°C (100°F to 900°F)						
System Can be Calibrated	1.00		Yes				
WW TALL	On COM.						
SPECIFICATIONS	ST 6		ST 75	ST 115			

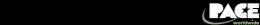
ST 50

8007-0500

8007-0532

SPECIFICATIONS	ST 65	ST 75	ST 115		
System 115v	8007-0502	8007-0506	8007-0508		
Power Source Only 115v	8007-0503	8007-0507	8007-0509		
System 230v	8007-0516	8007-0520	8007-0522		
Power Source Only 230v	8007-0517	8007-0521	8007-0523		
Power Requirements	97-127 VAC, 50/60 Hz, 90 Watts max. 197-253 VAC, 50/60 Hz, 90 Watts max.	97-127 VAC, 50/60 197-253 VAC, 50/60	Hz, 120 Watts max.) Hz, 120 Watts max.		
Dimensions	104mm H x 130mm W x 152mm D (4.1" H x 5.1" W x 6.0" D)		nm W x 254mm D 5" W x 10" D)		
Weight	2.3 Kg (5 lbs.)	4 Kg	g (9 lbs.)		
Control	Dial	Dial	LED Display & Keypad		
Control Technology	Mina COL	IntelliHeat			
Tip to Ground Resistance	1007.	2 ohms or less			
Temperature Accuracy	AN. PO.CO.	Meets or exceeds ANSI-J-STD			
Absolute Temperature Stability	1100 -	± 1.1°C (± 2°F) at idle tip temp.			
Temperature Range	SensaTemp D	chnology Handpieces = 205° to 454°C ial Control 176°C to 482°C (350°F to igital Control 37°C to 482°C (100°F to	900°F)		
System Can be Calibrated	1/1/1/100	Yes			
Vacuum/Pressure Source Type	Compressed Air Powered Venturi	Self Conto	ined Pump		
Vacuum Rise Time	1111110	150 ms Average			
Vacuum (Nominal)	1 100	20 in Hg max			
Flow Control Valve	Coarse Adjustment	High Precision	n Needle Valve		
Pressure (Nominal)		18 p.s.i. max			
Air Flow (Nominal)	1.11	8 slpm max			





SPECIFICATIONS

System with TD-100 115v

System with PS-90 115v

ST 30

8007-0499

N/A



MBT 301

SIMPLE AND EASY TO USE FOR REWORK TECHNICIANS OR OPERATORS ON THE LINE



MBT 350
ADVANCED TECHNOLOGY AND PROGRAMMABILITY

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.

MBT 300 SERIES SPECIFICATIONS

SPECIFICATIONS	MBT 301	MBT 350	MBT 301 E	MBT 350 E			
Kit with Handpieces Part Numbers:	8007-0478 (TD-100 & SX-90)	8007-0454 (TD-100, MT-100 &	8007-0479 (TD-100 & SX-90)	8007-0455 (TD-100, MT-100 &			
Power Source Only Part Numbers:	8007-0480	SX-90) 8007-0452	8007-0481	SX-90) 8007-0453			
Power Requirements	120 VAC, 60 Hz (2	240 watts maximum)	230 VAC, 50 Hz (2	240 watts maximum)			
Handpiece Technology Compatibilty	IntelliHeat I	IntelliHeat Handpieces with Tip Heater Cartridge or SensaTemp Technology					
Dimensions	13	5mm H x 165mm W x 26	Omm D (5.3" × 6.5" × 9.2	(5")			
Weight		5 Kgs (11 lbs.)				
Tip to ground resistance		< 2 0	Ohms	N.100 CO			
Temperature Stability		± 1.1 °	C (2 °F)	N.100 F			
Temperature Accuracy		Meets or exceed	s ANSI J Std 001	1007			
Set Temp Range		,	000 °F) SensaTemp °F) tip Heater Cartridge	M. 1007			
Vacuum Rise Time	15	0 ms Average as measure	d with PACE Process Moni	itor			
Vacuum		20 in l	Hg max	WW 10			
Pressure		18 p.s	.i. max	WW TALL			
Air Flow		8 SLP/	M max	WW			



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 SetBack 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.

- 1. TD-100 THERMO-DRIVE IRON
- 2. MT-100 MINITWEEZ
- 3. PS-90 UNIVERSAL IRON
- 4. TT-65 THERMOTWEEZ
- 5. TJ-85 THERMOJET6. SX-90 SODR-X-TRACTOR
- 7. TP-100 THERMOPIK

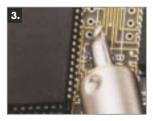






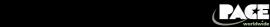














LAND FREE SERVICE SERV

LEAD FREE SOLDERING WORKING WITH LEAD FREE SOLDERS

SENSATEMP REWORK SYSTEMS ST 25, MBT 250 & PRC 2000

The PRC 2000 Benchtop Factory is the ultimate rework center. The PRC 2000 can tackle just about any Thru-Hole, SMT application and is well suited for multilayer repairs on damaged or prototype PCBs. Featuring 3 simultaneously active

SensaTemp handpiece channels, a built-in paste dispenser, MicroChine for removing conformal coatings or grinding away PCB laminate, and pulse heat technology. The PRC 2000 comes with 9 handpieces and continuously calibrates automatically.

The **ST 25** soldering system uses SensaTemp to maximize heat delivery and improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other soldering systems. The heavy-duty metal housing makes this system the ideal choice for the harshest environments and the sloped face of the front panel is a standard feature for ease of use. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space.

FEATURES:

- SensaTemp Control Technology
- Analog (dial) control
- °C/°F Temperature Scales
- Temperature Adjustment Lockout
- ESD grounding jack
- ESD Safe metal housing
 Stackable
- Can be mounted under work
- bench or shelf with optional bracket 1321-0609-P1





SENSATEMP POWER SOURCE SPECIFICATIONS

SPECIFICATIONS	ST 25	MBT 250 SD/MBT 250 SDTP	PRC 2000 SMT	PRC 2000 TH		
System 115 V	8007-0528	8007-0203 (SD) 8007-0206 (SDTP)	8007-0132	8007-0138		
Power Source Only 115 V	8007-0529	8007-0349	N/A	N/A		
System 230 V	8007-0510	8007-0204 (SD) 8007-0207 (SDTP)	8007-0133	O N/A		
Power Source Only 230 V	8007-0511	8007-0353	N/A	N/A		
Input Power Requirements		97-127 VAC, 50/60 Hz or 197-25	3 VAC, 50/60 Hz			
Max Power Consumption	120 W	240 W	400)W		
Dimensions	104mm H x 130mm W x 152mm D (4.1" H x 5.1" W x 6.0" D)	135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D)	175mm H x 350mm W x 230mm D (6.9" H x 13.75" W x 9.25" D)			
Weight	2.3 Kgs (5 lbs.)	5 Kgs (11 lbs.)	13 Kgs (28.6 lbs.)			
Control		LED Display	LED D	isplay		
Control Technology		SensaTemp (Black Connector	HandPieces)	111.		
Tip to Ground Resistance		2 ohms or less	M.	100		
Temperature Accuracy		Meets or exceeds ANSI-J-	STD 001	MAN OUT		
Absolute Temperature Stability		± 1.1°C (± 2°F) at idle t	ip temp.	-1XN .100		
Temperature Range		176° to 482°C (350° to 900	O°F) nominal	V/W 100		
System Can be Calibrated		Calibration not requ	ired	1111		
Pump Type	N/A	Se	lf Contained Pump	111		
Vacuum Rise Time	N/A		150 ms Average			
Vacuum (Nominal)	N/A		20 in Hg max	N TAIL		
Flow Control Valve	N/A	High Resolution Needle Valve	Coarse a	djustment		
Pressure (Nominal)	N/A	18 p.s.i. max	7 p.s.i	i. max		
Air Flow (Nominal)	N/A	8 slpm max	13 slpi	m max		

Lead Free solders do not behave or look like their lead containing counterparts. As our industry changes over to Lead Free solders, individual PCB assemblers will need to address several issues relating to hand soldering and rework. These issues include:

- **Higher melting temperatures** which mistakenly lead to operators increasing equipment operating temperatures. Higher operating temperatures do not make the process quicker, they can actually slow it down.
- Poor wetting and spreading properties Additional time is required when working with lead free solders, they do not spread or wet like lead containing solders do. Operators must slow down.
- **Difficult to work with** Bridging and insufficient solder defects are common, even for experienced operators, leading to operator frustration and poor quality.
- Dull grainy finish makes inspection difficult.

Because Lead Free solders oxidize quickly, more aggressive and longer lasting fluxes are required to keep surfaces clean and free from oxidation. Working with no-clean fluxes is challenging as their process window is often small. Once they are burned off, oxidation immediately begins to form which can result in a marginal or defective solder joint. Additionally, increasing operating temperatures creates an ideal environment for oxidation to form and will also lead to flux and solder ball splatter on the PCB. If the flux is splattered all over the PCB, it's not able to do its job on the surfaces to be joined during the soldering process.

Lead Free solders also affect soldering and rework tools and their effect is detrimental. Lead Free solders contain high percentages of tin, almost always over 94%. Tin is a corrosive and active metal. When it mixes with iron (the protective layer on soldering tips), an inter-metallic compound is formed that wears away more quickly than the iron would either by itself or when used with lead containing solder. This causes two problems, one is shorter tip life as the protective iron coating is dissolved in the tin, and the second is that oxidation forms more quickly which is further exacerbated by the high temperature environment the tips work in. As a result, tin oxides form and create an inter-metallic compound with the iron plating on the tip. Once the oxidation begins to form, the tip will lose its ability to wet with solder and if not cleaned off quickly, it becomes almost impossible to remove and the tip must be replaced.

When using Lead Free solders, regardless of alloy, it is absolutely imperative that tips are properly maintained, otherwise tip life will be reduced significantly. Tips should be cleaned frequently to remove oxidation before it becomes impossible to remove. Tips should always be tinned when not being used, otherwise oxidation will quickly form on the tip. If the iron will not be used for extended periods of time, they should be turned off. Should oxidation form that cannot be easily cleaned by tinning or by using a cleaning tool, PACE's Tip-Brite is recommended.

Tip-Brite is a high quality tip tinner that will remove stubborn

The use of equipment with SetBack and Auto-Off functions (standard on all PACE equipment), is very desirable. Additionally, optional accessories such as PACE's Instant SetBack Cubby ensure that tip life is maximized. The Instant SetBack Cubby puts the system into "SetBack" after 45 seconds of inactivity. When the iron is removed from the cubby, it restores itself to the set temperature almost immediately.

The use of nitrogen assisted soldering equipment helps to mitigate the problems associated with using Lead Free solders. Nitrogen helps on two fronts. First, it creates an inert environment around the soldering tip, reducing the potential for tip to oxidize. Second, it assists in the soldering process at the PCB level by purging oxygen from the immediate area which reduces or eliminates the formation of oxidation on the work site. This not only reduces the amount of flux that is required, but it also helps to improve wetting, spreading and leaves a finish that is shinier and less grainy.

PACE's nitrogen assisted soldering systems pass the nitrogen through or around the heater before it is directed to the work site. This "pre-heats" the immediate area which can also help to reduce thermal shock to component leads and to components themselves. Pre-heating also allows for the use of lower, safer and more effective soldering temperatures.

PACE's soldering systems offer legendary thermal control as well as advanced features to maintain your process. Unique PACE features such as IntelliHeat, Power Modules and password protection ensure consistency and quality in your process. Economical tips and standard features such as "SetBack" and "Auto-Off" maximize tip life to reduce operating costs and increase your bottom line.

SOLUTIONS FOR THE ELECTRONICS INTERCONNECTION PROCESS









LEAD FREE SOLDERING COMPATIBLE AND ROHS COMPLIANT



LEAD FREE SOLDERING

NITROGEN ASSISTED SOLDERING ACCESSORIES

PACE's soldering systems offer legendary thermal control as well as advanced features to maintain your process. Unique PACE features such as IntelliHeat, Power Modules and password protection ensure consistency and quality in your process. Economical tips and standard features such as "SetBack" and "Auto-Off" maximize tip life to reduce operating costs and increase your bottom line.

All ST & MBT systems, handpieces and tips are Lead Free soldering compatible and RoHS compliant.

They can be used with any Lead Free alloys without modification. PACE's soldering systems, handpieces and tips are fully compatible with your Lead Free process. PACE's TD-100 soldering iron boasts one of the most efficient heat transfer capabilities and is clearly one of the most responsive irons on the market today. This means that the TD-100's ability to recover from thermal loading and maintain its heat output is far superior to other conventional irons, eliminating the need for higher, unsafe temperatures when using Lead Free solders. Quick and consistent heat transfer also ensures that flux is fully activated and burned off, leaving the work site properly prepared for the formation of highly reliable solder joints. Our PS-90 soldering iron has been the staple of the industry for years and is known for its amazing thermal capacity and ability to deliver the heat at safe, low temperatures. Both the TD-100 and PS-90 are available for use with nitrogen.



	HANDPIECE KIT	HANDPIECE ONLY
TD-100 N	6993-0272-P1	6010-0156-P1
PS-90 N	6993-0274-P1	6010-0157-P1
	12 000	TW
		TAN
4		ONLY

All ST products are compatible with either the PS-90 N and/or the TD-100 N handpieces. The benefits of nitrogen assisted soldering are available for all of PACE's soldering stations with the $\rm N_2$ Regulator Accessory which can be easily mounted to any ST system.

All of PACE's soldering, desoldering and component removal tips are tinned with Lead Free solder

Due to the corrosive nature of the high tin content in Lead Free alloys and because more aggressive fluxes are commonly required when using Lead Free solders, we have also optimized the iron plating on our tips to maximize thermal transfer while providing for the longest life possible.

PACE is leading the way in soldering technology with our patented "Diamond Series" tips. "Diamond Series" tips are manufactured with an iron matrix that is impregnated with sub micron sized diamond particles. The diamond-impregnated surface is harder and more corrosion resistant than iron alone.

When reworking area array components with Lead Free solder, the greatest enhancement to existing equipment is the use of nitrogen for reflow. All of PACE's Area Array equipment comes fitted for nitrogen use as standard.

Additionally, PACE manufactures Fume Extraction Systems to reduce exposure to harmful particulates and gases created from hand soldering operations. PACE Fume Extraction Systems effectively remove these contaminants from the workers breathing zone thereby reducing or eliminating health risks and improving productivity.

NF 50 & NF 100

The compact highperformance single station N_2 generator (NF 100) will generate Nitrogen Gas at a maximum concentration level of 99.9%. This system should be used in conjunction with NF $50\ N_2$ Flow Control Unit.



NF 500 & NF 1000

PACE is also pleased to offer the NF Series Nitrogen farms. Nitrogen farms harvest N_a from a compressed air supply that is passed through a specialized filter. The other atoms that make up "air" are forced through the filter, leaving a pure stream of N_2 as the product of filtering. Nitrogen farms are passive collection devices which means that there are no electrical or movina parts, little or no maintenance, low running costs, and they maintain the balance of air/N₂ in a confined space (as long as the compressed air is pulled from the same space).



NF 100 PERFORMANCE TABLE

	N.	4 100	Chr		N ₂ Conce	ntration % ——			-
<		99.9	99.5	99.0	98.0	97.0	96.0	95.0	90.0
0.3	t <	0.15	0.37	0.48	0.66	0.88	1.1	1.3	2.6
0.4	non (r	0.24	0.57	0.77	1.1	1.4	1.7	2.0	4.4
0.5	£ 5 N	0.35	0.75	1.1	1.5	1.9	2.2	2.9	5.9
0.6	로 =	0.48	0.97	1.3	1.8	2.4	3.1	3.5	7.5
0.7	ő	0.55	1.2	1.6	2.2	3.1	3.7	4.2	9.2
	0.4 0.5 0.6	0.4 0.5 0.6 (L/min)	0.3 0.4 0.5 0.6 0.15 0.24 0.35 0.35 0.4 0.35 0.4 0.35 0.4 0.4 0.5 0.4 0.4 0.4 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.3 0.4 0.5 0.6 0.15 0.24 0.57 0.35 0.37 0.24 0.57 0.35 0.75 0.48 0.97	0.3 0.4 0.5 0.6 0.15 0.24 0.24 0.57 0.77 0.35 0.75 0.48 0.77 0.35 0.48 0.97 1.3	99.9 99.5 99.0 98.0 0.3 0.15 0.37 0.48 0.66 0.4 0.5 0.57 0.77 1.1 0.5 0.6 0.35 0.75 1.1 1.5 0.6 0.48 0.97 1.3 1.8	0.3 0.15 0.37 0.48 0.66 0.88 0.4 0.5 0.24 0.57 0.77 1.1 1.4 0.5 0.35 0.75 1.1 1.5 1.9 0.6 0.48 0.97 1.3 1.8 2.4	99.9 99.5 99.0 98.0 97.0 96.0 0.3 0.15 0.37 0.48 0.66 0.88 1.1 0.4 0.24 0.57 0.77 1.1 1.4 1.7 0.5 0.35 0.75 1.1 1.5 1.9 2.2 0.6 0.48 0.97 1.3 1.8 2.4 3.1	99.9 99.5 99.0 98.0 97.0 96.0 95.0 0.3 0.15 0.37 0.48 0.66 0.88 1.1 1.3 0.4 0.5 0.24 0.57 0.77 1.1 1.4 1.7 2.0 0.5 0.35 0.75 1.1 1.5 1.9 2.2 2.9 0.6 0.48 0.97 1.3 1.8 2.4 3.1 3.5

NF SYSTEMS	DESCRIPTION	PART NUMBERS
NF 50	Single station N ₂ regulator with shut off	8110-0500
NF 100	For a single station	8110-0100
NF 500	For up to 2 stations	8110-0001
NF 1000	For up to 10 stations	8110-0002
NF N,	N ₂ OUT AIR IN Regulator N ₂ OUT AIR IN F 50 N ₂ Flow Control Unit	NF 100/50 CONNECTION METHOD N ₂ Soldering Iron • PS-90N • TD-100N









TIP SPECIFICATIONS



TD-100 STANDARD SOLDERING TIPS

TIP SPECIFICATIONS

TID CDECIFICATION	MM, 100 r.	COM	M	1,100,1
TIP SPECIFICATION	A) 100 x		L -	W . 100
TIPS	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
8	1/64" Conical Sharp Bent 30 Degrees	7.8mm (0.310")	0.40mm (0.016")	1124-0003-P1
+	1/64" Conical Sharp Extended	13.5mm (0.535")	0.40mm (0.016")	1124-0004-P1
€D+	13/64" Conical Sharp Extended	4.7mm (0.188")	0.80mm (0.031")	1124-0005-P1
€>+	3/128" Conical	4.6mm (0.184")	0.58mm (0.023")	1124-0006-P1
± †	1/16" 90 Degree Chisel	10.9mm (0.430")	2.03mm (0.080")	1124-0007-P1
□L≥‡	3/64" 30 Degree Chisel	9.7mm (0.380")	1.20mm (0.047")	1124-0008-P1
€D‡	3/64" 30 Degree Bevel	3.6mm (0.140")	1.20mm (0.047")	1124-0009-P1
€ <u>- </u>	13/64" Extra Large Chisel	7.62mm (0.300")	5.15mm (0.203")	1124-0010-P1
1	1/64" 60 Degree Bevel	14.7mm (0.580")	0.40mm (0.016")	1124-0011-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
€ +	5/64" 60 Degree Chisel	4.7mm (0.185")	2.00mm (0.078")	1124-0014-P1
6> /*	1/64" Conical, Sharp, Bent 30 Degrees, Extended	15.1mm (0.595")	0.40mm (0.016")	1124-0015-P1
======================================	3/64" Chisel Bent 30 Degrees	11.7mm (0.460")	1.20mm (0.047")	1124-0016-P1
+	1/16" 60 Degree Chisel	15.8mm (0.620")	1.60mm (0.063")	1124-0017-P1
+	1/32" Conical Sharp Extended	16.7mm (0.660")	0.80mm (0.031")	1124-0018-P1
	1/16" 30 Degree Chisel	9.9mm (0.390")	1.60mm (0.063")	1124-0019-P1
δ : c'	1/8" 90 Degree Chisel	4.8mm (0.190")	3.20mm (0.125")	1124-0020-P1

MAXIMIZING TIP LIFE PACE recommends the following practices to maximize tip life.

- Always use the lowest possible temperatures while soldering. High temperatures cause tips to oxidize faster, which
 reduces heat transfer and damages the protective iron plating.
- 2. Avoid aggressive fluxes whenever possible. Aggressive fluxes erode tips faster; shortening their useful life.
- 3. Always use a properly sized tip for the work. Tips, that are too small, will wear out faster and tips that are too large will wear unevenly which, in turn, will change the tip geometry rendering it useless, possibly damaging pads.
- 4. Always tin tips when not in use and after cleaning on a damp sponge. A coating of solder will prevent oxidation from forming which causes tips to lose their tinning or wetting capability.
- Always feed solder wire into the heated work, not the tip. Feeding solder directly into the tip will cause pin-holes in the tip and will cause the flux in the solder wire to be burned off before it can activate and prepare the surfaces being soldered.

Should tips lose their tinning or wetting capability, a tip cleaner such as PACE's Tip-Brite may be used to restore them.



W.COM. TW			D	
PS	DESCRIPTION	TIP SIZE - L	SIZE - D	PART NUMBER
	3/128" Conical Sharp Bent 30 Degrees	14.4mm (0.570")	0.58mm (0.023")	1124-0021-P1
□□	1/16" Conical Sharp	9.9mm (0.390")	1.60mm (0.063")	1124-0022-P1
	1/8" 90 Degree Chisel Extended	8.6mm (0.340")	3.20mm (0.125")	1124-0023-P1
€ ±	1/16" 30 Degree Bevel	9.9mm (0.390")	1.60mm (0.063")	1124-0024-P1
	1/16" Conical Sharp Extended	12.1mm (0.478")	1.60mm (0.063")	1124-0025-P1
	1/16" Chisel Bent 30 Degrees	9.7mm (0.385")	1.60mm (0.063")	1124-0026-P1
□ →	3/128" Conical Sharp	15.2mm (0.600")	0.58mm (0.023")	1124-0027-P1
8	3/64" Chisel, Bent 30 Degrees, Extended	15.2mm (0.600")	0.91mm (0.36")	1124-0028-P1
€ €	1/32" 30 Degree Bevel	9.1mm (0.360")	1.91mm (0.75")	1124-0029-P1
□	1/32" Conical Sharp	9.9mm (0.390")	0.80mm (0.031")	1124-0030-P1
:==;	Heat Staking	N/A	4.04mm (0.159")	1124-0031-P1
<u></u> ;	MiniWave	N/A	3.05mm (.120")	1124-0032-P1
	Angled MiniWave	N/A	3.05mm (.120")	1124-0033-P1
	Single Sided Chisel	N/A	3.05mm (.120")	1124-0034-P1
	Angled MiniWave	N/A	2.11mm (.083")	1124-0035-P1
	1/128" Conical	N/A	0.20mm (0.008")	1124-0036-P1
VII	1/4 Flat Blade	N/A	4.57mm (0.180")	1124-0037-P1
11.	Single Sided Chisel, Fine Pitch	N/A	1.5mm (.06")	1124-0038-P1
2-11	Angled MiniWave, Fine Pitch	N/A	1.6mm (.064")	1124-0039-P1
	MicroFine Single Sided Chisel	N/A	0.9mm (.035")	1124-0040-P1
	MicroFine Single Sided Chisel	N/A	1.1mm (.045")	1124-0041-P1
∃	MicroFine Conical	N/A	0.25mm (.01")	1124-0042-P1
	MicroFine Bent Conical	N/A	0.76mm (.03")	1124-0043-P1
	MicroFine Bent Conical	N/A	0.5mm (.02")	1124-0044-P1
001	Angled Micro-Wave	N/A	1.1mm (.045")	1124-0045-P1
~001.Co	Micro-Wave	N/A	1.1mm (.045")	1124-0046-P1
	Angled Chisel	8.4mm (0.33")	1.33mm (0.051")	1124-0047-P1
M:Ju	Single Sided Chisel	17.00mm (0.693")	4.55mm (0.178")	1124-0048-P1





TIP SPECIFICATIONS

UNIQUE TO PACE... PATENTED DIAMOND/IRON PLATING PROCESS USING REAL DIAMONDS THAT PROVIDES IMPROVED THERMAL PERFORMANCE AND LONG LIFE WHEN WORKING WITH LEAD FREE SOLDER

END FREE

DIAMOND SERIES EXTENDED LIFE SOLDERING TIPS

FOR USE WITH THE TD-100

PROFILE	DESCRIPTION	PART NUMBER	PROFILE	DESCRIPTION	PART NUMBER
[§ >	.016 Conical	1126-0601-P1		.06 Wide, Bevel 60 Degrees, .12x.06 Oval Face	1126-0625-P1
1	.039 Conical	1126-0602-P1		.07 Bevel, 60 Degree	1126-0626-P1
12 >	.055 Conical, Blunt	1126-0603-P1		.078 Bevel, 45 Degree	1126-0627-P1
	.031 Conical, Blunt	1126-0604-P1		.13 Bevel, 60 Degree	1126-0628-P1
5	.016 Conical, Long	1126-0605-P1	3	.118 Bevel, 45 Degree	1126-0629-P1
	.016 Conical	1126-0606-P1	8 110	.023 Bevel, Special	1126-0630-P1
	.016 Conical, Extended	1126-0607-P1	5 100	.031 Chisel Standard	1126-0631-P1
1	.024 Conical	1126-0608-P1		.047 Chisel Standard	1126-0632-P1
	.039 Conical	1126-0609-P1	1 1 DE	.062 Chisel Standard	1126-0633-P1
	.031 Conical	1126-0610-P1	1 10	.094 Chisel Standard	1126-0634-P1
	.047 Conical	1126-0611-P1	110	.157 Chisel Standard	1126-0635-P1
	.016 Conical Bent	1126-0612-P1	18 0	.205 Chisel Standard	1126-0636-P1
18 100	.016 Conical, Blunt, Bent	1126-0613-P1		.157 Chisel Long Reach	1126-0637-P1
1 100	.016 Conical, Blunt	1126-0614-P1		.205 Chisel Long Reach	1126-0638-P1
	.016 Conical Extended, Bent	1126-0615-P1	1 3	.078 Chisel Blunt	1126-0639-P1
3	.157 Bevel, 45 Degree	1126-0616-P1	8 (.125 Chisel Blunt	1126-0640-P1
	.078 Bevel, 60 Degree	1126-0617-P1	15	.055 Chisel, Bent 30 Degrees	1126-0641-P1
	.118 Bevel, 60 Degree	1126-0618-P1	13 15	.062 Chisel, Bent 30 Degrees	1126-0642-P1
13 7	.157 Bevel, 45 Degree Tinned on edge/face	1126-0619-P1	ì	.055 Chisel, Bent, Extended	1126-0643-P1
	.039 Bevel, 60 Degree, Extended	1126-0620-P1		.185 Knife, 45 Degree	1126-0644-P1
	.039 Bevel, 45 Degree Tinned on edge / face	1126-0621-P1	1	.181 Knife, 45 Degree	1126-0645-P1
3	.078 Bevel, 45 Degree Tinned on edge / face	1126-0622-P1	! //	.185 Knife, 45 Degree, Blunt	1126-0646-P1
	.118 Bevel, 45 Degree Tinned on edge / face	1126-0623-P1		.118 Knife, 45 Degree	1126-0647-P1
	.039 Bevel, 45 Degree	1126-0624-P1	1	Single Sided Chisel .08 Wide	1126-0648-P1

^{*} Drawings are representative of tips actual shape. Actual tips may differ somewhat, other than front end geometry.

TD-100 SMT REMOVAL TIPS

TIP SPECIFICATIONS

TIP - CHIP/SOT REMOVAL	COMPONENT TYPE	SIZE - A	SIZE - B	PART NUMBER
and XIII	Chip 0402 Angle (fig. A)	2.2mm (.085")	-	1124-0581-P1
(fig. A) (fig. E)	Chip 0201 Angle (fig. A)	0.5mm (.02")	-	1124-0533-P1
100	Chip 1808 (fig. B)	5.0mm (.195")	-	1124-0520-P1
(fig. B) (fig. F)	Chip 0402 (fig. C)	1.0mm (.40")	-	1124-0521-P1
119. 5/ 1 12-	Chip 0201 (fig. C)	0.5mm (0.2")	-	1124-0534-P1
(fig. C)	SOT 23 (fig. D)	1.8mm (.070")	-	1124-0522-P1
[iig. 9] Lis	SOT 89 (fig. E)	2.8mm (.110")	-	1124-0523-P1
(fig. D)	Chip 1206 (fig. F)	3.6mm (.142")	-	1124-0524-P1
MAN TOOK	Chip 0805 (fig. G)	2.4mm (.095")	-	1124-0525-P1
TIP - SOIC/SOP/TSOP REMOVAL	COMPONENT TYPE	SIZE - A	SIZE - B	PART NUMBER
M. Tay In COR	SOIC 14/16	5.2mm (.205")	10.5mm (.415")	1124-0504-P1
B-P	SOIC 20	9.6mm (.377")	13.6mm (.535")	1124-0505-P1
CO	SOP 28	10.8mm (.426")	18.6mm (.734")	1124-0506-P1
A 1 (100 CO)	SOP 40	11.9mm (.467")	25.7mm (1.011")	1124-0507-P1
1007	SOP 44	13.1mm (.516")	28.4mm (1.120")	1124-0508-P1
TNW. TOW. CC	TSOP 56	18.8mm (.739")	14.1mm (.557")	1124-0509-P1
	TSOP 28	12.0mm (.471")	8.5mm (.333")	1124-0510-P1
	SOIC 8	5.1mm (.202")	4.65mm (.183")	1124-0519-P1
	TSOP 40	18.8mm (.740")	10.4mm (.410")	1124-0526-P1
TIP - SOIC/SOP/TSOP REMOVAL	COMPONENT TYPE	SIZE - A	SIZE - B	PART NUMBER
100	PLCC 28 Socket	9.3mm (.365")	9.3mm (.365")	1124-0511-P1
A -	PLCC 32	14.2mm (.561")	11.7mm (.459")	1124-0512-P1
	PLCC 44	16.8mm (.622")	16.8mm (.622")	1124-0513-P1
	1100 44	10.0 (1022 /	, ,	
	QFP 144	20.6mm (.810")	20.6mm (.810")	1124-0514-P1
		, ,		1124-0514-P1 1124-0515-P1
B	QFP 144	20.6mm (.810")	20.6mm (.810")	
	QFP 144 PLCC 28	20.6mm (.810") 11.8mm (.465")	20.6mm (.810") 11.8mm (.465")	1124-0515-P1
B	QFP 144 PLCC 28 QFP 100/128	20.6mm (.810") 11.8mm (.465") 22.0mm (.865")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628")	1124-0515-P1 1124-0516-P1
	QFP 144 PLCC 28 QFP 100/128 PLCC 18	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505")	1124-0515-P1 1124-0516-P1 1124-0528-P1
	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1
	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1
B	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1
TIP - SOIC/SOP/TSOP REMOVAL	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100 VQFP 100	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1 1124-0535-P1
CONTA MAN	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100 VQFP 100 TQFP 64	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1 1124-0535-P1 1124-0537-P1
CONTA MAN	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100 VQFP 100 TQFP 64 COMPONENT TYPE	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602")	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1 1124-0535-P1 1124-0537-P1 PART NUMBER
CONTA MAN	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100 VQFP 100 TQFP 64 COMPONENT TYPE Blade	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602") SIZE - A 6mm (.236")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602") SIZE - B	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1 1124-0535-P1 1124-0537-P1 PART NUMBER 1124-0536-P1
CONTA MAN	QFP 144 PLCC 28 QFP 100/128 PLCC 18 TQFP 80 PLCC 52 QFP 100 VQFP 100 TQFP 64 COMPONENT TYPE Blade Blade	20.6mm (.810") 11.8mm (.465") 22.0mm (.865") 7.6mm (.300") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602") SIZE - A 6mm (.236") 10.8mm (.425")	20.6mm (.810") 11.8mm (.465") 16.0mm (.628") 12.8mm (.505") 12.5mm (.491") 19.4mm (.762") 26.6mm (1.048") 15.5mm (.610") 15.3mm (.602") SIZE - B -	1124-0515-P1 1124-0516-P1 1124-0528-P1 1124-0529-P1 1124-0530-P1 1124-0531-P1 1124-0537-P1 PART NUMBER 1124-0536-P1 1124-0501-P1





MT-100 AND TP-100 SMT REMOVAL TIPS

TIP SPECIFICATIONS

PS-90 SOLDERING TIPS TIP SPECIFICATIONS

MT-100 TIPS

TIP - CHIP/SOT REMOVAL	COMPONENT TYPE	SIZE - A	SIZE - B	PART NUMBER
LAB AR	Chip (fig. A)	0.2mm (.008")	0.2mm (.008")	1124-1001-P1
T (fig. A) A B (fig. B)	Chip, SOT (fig. B)	0.7mm (.03")	0.5mm (.03")	1124-1002-P1
A A P F	Chip, SOT (fig. B)	0.7mm (.03")	1mm (.04")	1124-1003-P1
A B (fig. C)	Chip, SOT (fig. B)	0.7mm (.03")	2mm (.08")	1124-1004-P1
h A	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	6mm (.24")	1124-1005-P1
	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	8mm (.31")	1124-1006-P1
	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	10mm (.39")	1124-1007-P1
	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	13mm (.51")	1124-1008-P1
	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	18mm (.74")	1124-1009-P1
	Chip, SOT, TSOPS (fig. C)	0.7mm (.03")	28mm (1.09")	1124-1010-P1

TP-100 TIPS

TIP	ТҮРЕ	LEAD COUNT	SIZE - A	SIZE - B	COMPONENT HEIGHT	COMPONENT FOOTPRINT	PART NUMBER
	LQFP/TQFP	80	12mm (.472")	12mm (.472")	1.4mm	2.0mm	1124-2001-P1
A	LQFP/TQFP	64, 80,100, 120, 128, 168	14mm (.551")	14mm (.551")	1.4mm	2.0mm	1124-2002-P1
	LQFP/TQFP	128, 144, 160, 176	20mm (.788")	20mm (.788")	1.4mm	2.0mm	1124-2003-P1
В	LQFP/TQFP	176, 216	24mm (.945")	24mm (.945")	1.4mm	2.0mm	1224-2004-P1
	LQFP/TQFP	208, 256	28mm (1.10")	28mm (1.10")	1.4mm	2.0mm	1224-2005-P1
	QFP	52, 64, 80, 100	14mm (.551")	14mm (.551")	2.7mm	3.2mm	1124-2006-P1
	QFP	52, 64, 80, 100	14mm (.551")	14mm (.551")	2.7mm	3.9mm	1124-2007-P1
	QFP	64, 80, 100, 128	14mm (.551")	20mm (.788")	2.7mm	3.2mm	1124-2008-P1
	QFP	64, 80, 100, 128	14mm (.551")	20mm (.788")	2.7mm	3.9mm	1124-2009-P1
	QFP	120, 128, 144, 160, 208	28mm (1.10")	28mm (1.10")	3.4mm	3.9mm	1124-2010-P1
	QFP	160	28mm (1.10")	28mm (1.10")	3.4mm	3.9mm	1124-2011-P1

TIPS	DESCRIPTION	TIP SIZE	PART NUMBER
1	1/16" Chisel	1.60mm (0.063")	1121-0335-P5
W. COM.	1/32" Conical	0.80mm (0.031")	1121-0336-P5
CON	1/8" Chisel	3.20mm (0.125")	1121-0337-P5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/16" Chisel (MicroFine)	1.60mm (0.063")	1121-0349-P5
MANN TOOK	1/32" Chisel	0.80mm (0.031")	1121-0359-P5
	3/32" Chisel	2.40mm (0.094")	1121-0360-P5
	1/32" Bent Chisel	0.80mm (0.031")	1121-0361-P5
	Single-Sided Chisel	3.30mm (0.13")	1121-0406-P5
7 = † W	1/16" Chisel (High Capacity)	1.60mm (0.063")	1121-0414-P5
	Mini-Wave	3.30mm (0.13")	1121-0490-P5
<u> </u>	1/16" Chisel, Long Reach	1.60mm (0.063")	1121-0499-P5
	1/16" Bent Chisel, Long Reach	1.60mm (0.063")	1121-0500-P5
	1/16" Chisel, Extended Reach	1.60mm (0.063")	1121-0533-P5
4	Angled Mini-Wave	2.40mm (0.09")	1121-0610-P5
	1/64" Sharp Bent Conical	0.40mm (0.016")	1121-0830-P5









TIP SPECIFICATIONS



SX-90 DESOLDERING TIPS & SOLDER REMOVAL TIPS

TIP SPECIFICATIONS

TIPS	DESCRIPTION	TIP SIZE	PART NUMBER
(fig. A)	SOIC - 8 (JEDEC) (fig.A)	5.05mm × 5.08mm (0.199" × 0.200")	1121-0390-P1
A S I B	SOIC - 14 (JEDEC) (fig.A)	5.05mm x 8.99mm (0.199" x 0.354")	1121-0391-P1
	SOIC - 16 (JEDEC) (fig.A)	5.05mm x 10.2mm (0.199" x 0.404")	1121-0392-P1
(fig. B) B	Chip Component (fig.B)	3.56mm × 2.03mm (0.14" × 0.08")	1121-0303-P1
(fig. C)	TSOP (fig.C)	19.333mm x 8.1mm (0.76" x 0.32")	1121-0403-P1
A Y J B	Flat Blade Tip	A = 7.6mm (0.3")	1121-0512-P1
8	Flat Blade Tip	A = 10.2mm (0.4")	1121-0514-P1
A	Flat Blade Tip	A = 12.7mm (0.5")	1121-0473-P1
д "	Flat Blade Tip	A = 17.8mm (0.7")	1121-0416-P1
	Flat Blade Tip	A = 20.3mm (0.8")	1121-0497-P1
A	Flat Blade Tip	A = 25.4mm (1.0")	1121-0448-P1

TIPS SELECTION One of the most important aspects for successful solder removal is the selection of the proper size tip. There are several points to keep in mind.

- 1. The Inside Diameter (I.D.) of the tip must be large enough to fit over the lead, while providing sufficient room so that air and solder can be drawn through the tip.
- **2.** The Outside Diameter (O.D.) of the tip must be slightly smaller than the diameter of the pad to prevent tip contact to the board laminate and minimize the possibility of damage.

TIPS	DESCRIPTION	DIAMETER	PART NUMBER
1002	Thermo-Drive	0.76mm (0.030") I.D. x 2.03mm (0.080") O.D.	1121-0930-P5
W. 1003.	Thermo-Drive	1.02mm (0.040") I.D. x 2.29mm (0.090") O.D.	1121-0931-P5
MM 100X	Thermo-Drive	1.52mm (0.060") I.D. x 3.05mm (0.120") O.D.	1121-0932-P5
MAN, 100X	Thermo-Drive	2.29mm (0.090") I.D. x 5.1mm (0.200") O.D.	1121-0933-P5
WWW. 100	Thermo-Drive	4mm (0.16") I.D. x 5.1mm (0.200") O.D.	1121-0951-P5
	Thermo-Drive, Flathead	(0.050") × (0.090") I.D. × (0.110") × (0.190") O.D.	1121-0934-P5
	Extended Reach Thermo-Drive	0.78mm (0.030") I.D. x 2.29mm (0.090") O.D.	1121-0935-P5
WWW.	Extended Reach Thermo-Drive	1.02mm (0.040") I.D. x 2.54mm (0.10") O.D.	1121-0936-P5
N NAMA	Extended Reach Thermo-Drive	1.52mm (0.060") I.D. x 3.05mm (0.120") O.D.	1121-0937-P5
	ThermoMax	0.76mm (0.030") I.D. x 1.91mm (0.075") O.D.	1121-0938-P5
TW W	ThermoMax	1.02mm (0.040") I.D. x 2.20mm (0.085") O.D.	1121-0939-P5
TW W	ThermoMax	1.52mm (0.060") I.D. x 2.69mm (0.106") O.D.	1121-0940-P5
ZaW Jaz	Precision	0.50mm (0.020") I.D. x 1.79mm (0.070") O.D.	1121-0941-P5
DIVIN THE	Precision	0.76mm (0.030") I.D. x 2.03mm (0.080") O.D.	1121-0942-P5
ON	Precision	1.02mm (0.040") I.D. x 2.29mm (0.090") O.D.	1121-0943-P5
COM	Precision	1.52mm (0.060") I.D. x 2.79mm (0.110") O.D.	1121-0944-P5
COM	Precision	0.635mm (0.025") I.D. x 1.39mm (0.055") O.D.	1121-0949-P5
D. COM.	Precision	0.635mm (0.025") I.D. x 1.14mm (0.045") O.D.	1121-0950-P5
	Flo-D-Sodr	1.52mm (0.060") I.D. X 4.78mm (0.188") O.D.	1121-0945-P5
	Flo-D-Sodr, Precision	0.50mm (0.020") I.D. X 1.78mm (0.070") O.D.	1121-0946-P5
100X. COM.T.	Flo-D-Sodr, Precision	0.50mm (0.020") I.D. X 1.78mm (0.070") O.D.	1121-0947-P5
100X: CONT.	Flo-D-Sodr, Precision	1.02mm (0.040") I.D. X 2.29mm (0.090") O.D.	1121-0948-P5

Not suitable for use with SX-70 or SX-80



TT-65 SMT REMOVAL TIPS & HOT JET NOZZLES

TIP SPECIFICATIONS

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



PRODUCT PAGE

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TT-65 SMT REMOVAL TIPS

CHIP REMOVAL TIPS	DESCRIPTION	TIP SIZE	PART NUMBER
В	SOIC, SOJ, SIMMs	A=10.2mm (0.4")	1121-0514-P1
J. A	SOIC, SOJ, SIMMs	A=12.7mm (0.5")	1121-0473-P1
EL b	SOIC, SOJ, SIMMs	A=17.8mm (0.7")	1121-0416-P1
JAB	SOIC, SOJ, SIMMs	A=20.3mm (0.8")	1121-0497-P1
	SOIC, SOJ, SIMMs	A=25.4mm (1.0")	1121-0448-P1
1 1 1 1	Chip Component	A=0.76mm (0.03")	1121-0398-P1
To The Author	Chip Component	A=2.0mm (0.08")	1121-0313-P1
Streterist Decree - Line (1907)	Chip Component	A=4.1mm (0.16")	1121-0399-P1
	Chip Component, Small SOIC	A=6.4mm (0.25")	1121-0401-P1
No-test Notice -040mm(SEC7)	Thin-Walled Chip Component	A=0.76mm (0.03")	1121-0520-P1
1 n 150	Thin-Walled Chip Component	A=2.0mm (0.08")	1121-0521-P1
11	1/64" Angled Fine Point Conical	A=0.43mm (0.017")	1121-0517-P1
LCC REMOVAL TIPS	DESCRIPTION	TIP SIZE A x B	PART NUMBER
00	PLCC-20	6.86mm x 6.86mm (0.27" x 0.27")	1121-0316-P1
	PLCC-28	9.4mm x 9.4mm (0.37" x 0.37")	1121-0317-P1
Standard Well	PLCC-32	12.2mm x 9.65mm (0.48" x 0.38")	1121-0352-P1
(0.360°)	PLCC-44, PQFP-84	14.5mm x 14.5mm (0.57" x 0.57")	1121-0318-P1
Application PLEC	PLCC-52, PQFP-100	17.0mm x 17.0mm (0.67" x 0.67")	1121-0319-P1
the thermbook consider. 1997	PLCC-68, PQFP-132	21.9mm x 21.9mm (0.86" x 0.86")	1121-0320-P1
£000g f sized correctly	PLCC-84, PQFP-160	26.9mm x 26.9mm (1.06" x 1.06")	1121-0321-P1

TT-85 HOT JET NOZZLES

TIPS	DESCRIPTION	TIP SIZE	PART NUMBER
5>0	Round Nozzle	1.5mm (.06") Inner diameter	1259-0129-P1
2D-7.0	Round Nozzle, Bent 60 degrees	1.5mm (0.6") Inner diameter	1259-0130-P1
200	Flat Jet Nozzle	6.1mm x 1.9mm (.24" x .074") Inner flow dimensions	1259-0131-P1

PACE provides innovative solutions, products and training for the assembly, rework, repair and testing of printed circuit boards. PACE's unique capabilities and evolving vision have provided universal solutions to thru-hole and surface-mount assembly and rework problems for the most advanced electronics. Our strong commitment and history of achievement has resulted in an unparalleled range of Assembly, Repair and Fume Extraction systems to meet your company's needs whether working to ISO-9000, industrial, military or your own internal specifications. Whatever the challenge, PACE stands ready to provide the best, cost-effective solution for you.

ST SYSTEMS	ST 30	ST 50	ST 70	ST 100	ST 115
PACE's new ST systems offer the most innovative control technology ever developed - Intellitheat. ST systems are capable of providing the widest range of applications and flexibility by simply adding additional handpieces. Regardless if you are a small or arge shop, ST systems are the right answer for you!			0		
FUME EXTRACTION	ARM-EVAC 105	ARM-EVAC	250 FUME	FLO WORKTABLE	ARM-EVAC 50
PACE's Fume Extraction Systems feature the latest advancements in filter condition monitoring and process control as well as cost effective solutions. A variety of collection accessories are available.	100 T.C.		7	7	0
MBT/PRC SYSTEMS	MBT 350		PRC 2	PRC 2000	
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THERMOFLO SYSTEMS	TF 1700	F 1700 TF 2700		XR 3000	
PACE's family of ThermoFlo products offer complete solutions from simple surface mount removal and installation to delicate BCA and CSP rework. PACE's new inspection systems feature X-Ray and endoscopic technology to really "SEE" the results of your processes.		100 X CO			
CONVECTIVE & PRE-HEAT	ST 300	ST 350	ST 52	.5	ST 450
PACE's new family of hot air rework systems are ideal for all SMT applications. A wide range of product features are available to meet your specific needs. They can be easily upgraded by adding one of our powerful preheaters and/or PCB holders.		3		The said	

