

# Product Overview



Solder, Desolder & Rework



SMT & Area Array Rework



Fume Extraction

Solutions and systems for soldering, rework and repair of electronics



**PAGE**<sup>®</sup>  
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# Solder & Rework



## IntelliHeat™ Handpieces



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

PN: 6010-0147-P1 (Handpiece), 6993-0263-P1 (Kit)

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.



### PS-90 Universal Soldering Iron

PN: 6010-0150-P1 (Handpiece), 6993-0267-P1 (Kit)

The Universal Soldering Iron is ideal for most soldering applications and SMT rework operations where high thermal capacity and flexibility are required.



### MT-100 MiniTweez™

PN: 6010-0148-P1 (Handpiece), 6993-0264-P1 (Kit)

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.



### SX-100 Sodr-X-Tractor®

PN: 6010-0149-P1 (Handpiece), 6993-0266-P1 (Kit)

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.



### TP-100 ThermoPik®

PN: 6010-0158-P1 (Handpiece), 6993-0280-P1 (Kit)

The newest tool for SMT component removal the TP-100. The TP-100 is designed to reflow and remove QFPs in seconds.



### TT-65 ThermoTweez®

PN: 6010-0151-P1 (Handpiece), 6993-0268-P1 (Kit)

The most versatile and only patented SMT removal tool provides safe, one-handed, rapid reflow and component removal of PLCCs and other 4 or 2 sided SMT components.



### TJ-70 ThermoJet®

PN: 7023-0003-P1 (Handpiece), 6993-0292-P1 (Kit)

The TJ-70 ThermoJet® hot air pencil is ideal for delivering heat for the installation and removal of chip components, SOTs, and SOICs. A variety of quick change nozzles are available, to meet your operational needs. Its pencil grip design and finger-actuated control switch facilitates ease-of-use and manipulation in tight places for the precise application of hot air for large SMDs down to 0201s.



### TJ-85 ThermoJet®

PN: 6010-0153-P1 (Handpiece), 6993-0270-P1 (Kit)

When the precise application of hot air is required, our slim line air pencil is ideal for delivering heat for the installation and removal of chip components, SOTs, and SOICs. The TJ-85 is activated using a foot pedal.



# Production Soldering Stations



## WJS 100

PN: 8007-0558 (120 V), 8007-0559 (230 V)

The WJS™ 100 Soldering System will truly revolutionize your soldering operations. The WJS™ 100 features all the advanced process control technology you have grown to expect from PACE but now with nearly twice the maximum power output to make easy work of your most challenging, high-thermal-mass or high volume soldering applications. Integral to the WJS 100 solution is a special range of gold-end tip-heater cartridges uniquely engineered to deliver maximum heat through-put to the work; increasing productivity while allowing you to solder at safer, lower temperatures, even with lead-free solder. The WJS is compatible with the TD-100 and MT-100 handpieces and fitted with 1128 series tips.

## ST 30

PN: 8007-0499 (120 V), 8007-0512 (230 V)

The ST 30 is a single channel system with dial control featuring IntelliHeat™. The system is packaged with the TD-100 Thermo-Drive Soldering Iron or can be purchased as a Power Source only and combined with any of 4 optional handpieces.



## ST 50

PN: 8007-0500 (120 V), 8007-0514 (230 V)

The ST 50 is a single channel, digital power supply that is available with the TD-100 Thermo-Drive 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.



## ST 70

PN: 8007-0504 (120 V), 8007-0518 (230 V)

The ST 70 is a single channel system that is controlled by POWER MODULES™ and comes with the Thermo-Drive Soldering Iron (TD-100). The system can also be purchased as a Power Source only and combined with any of 4 optional IntelliHeat™ handpieces.



## ST 100 – The answer for the lead free solder transition.

PN: 8007-0525 (120 V), 8007-0527 (230 V)

The ST 100 is a fully programmable system featuring two, individually controlled IntelliHeat™ compatible handpiece channels and is supplied with two TD-100 soldering irons. The system can also be purchased as a Power Source only and combined with any of 4 optional IntelliHeat™ handpieces.



# Desoldering Stations



## ST 65

PN: 8007-0502 (120 V), 8007-0516 (230 V)

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-100 Sodr-X-Tractor or as a Power Source only. Vacuum generated by shop-air powered Venturi System.



## ST 75

PN: 8007-0506 (120 V), 8007-0520 (230 V)

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-100 or as a Power Source only. Vacuum generated by internal, self-contained vacuum pump.



## ST 115

PN: 8007-0508 (120 V), 8007-0522 (230 V)

A single channel, digital power supply, the ST 115 is compatible with all IntelliHeat™ handpieces and comes as a system with the new SX-100 or as a Power Source only. Vacuum generated by internal, self-contained vacuum pump.

# Multi Channel Rework Systems

## MBT 301

PN: 8007-0478 (120 V), 8007-0479 (230 V)

The MBT 301 has 2 individually controlled handpiece channels. The system is fully programmable and features a two line, back lit LCD display. System supplied with TD-100 and SX-100 handpieces.



## MBT 350

PN: 8007-0454 (120 V), 8007-0455 (230 V)

The MBT 350 is loaded with features to improve quality, increase through-put, extend tip life, and protect your process. System supplied with TD-100, MT-100 and SX-100 handpieces.



# SMT Rework



## Convective Systems

Convective systems use **hot air to reflow solder joints** and are often thought of as a "safer" method for removing and installing components from PCBs because of the non-contact process.



### ST 300

PN: 8007-0427 (120 V), 8007-0428 (230 V)

The ST 300 can be used to remove any SMD and for installing components that can be positioned manually. The ST 300 is a self-contained system with analog (dial) controls for temperature and airflow. Vacuum pick-up for holding/lifting components is a standard feature. Handpiece includes spring loaded vacuum pick with 3 sizes of vacuum cups.



### ST 325

PN: 8007-0429 (120 V), 8007-0432 (230 V)

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. Vacuum pick-up for holding/lifting components is a standard feature. Handpiece includes spring loaded vacuum pick with 3 sizes of vacuum cups.



### PM 200

PN: 8007-0464-P1

The PM 200 Process Monitor provides an easy and convenient way to monitor your soldering process. The PM 200 measures tip temperature, tip to ground resistance and AC tip leakage allowing for easy compliance with industry standards.



### Tip Temperature Monitor

PN 8001-0087-P1

The Tip Temperature Monitor is a fast and accurate way to measure the surface temperature of a soldering tip where the tip actually contacts the work. It is battery powered and truly portable.



### ST 350

PN: 8007-0437 (120 V), 8007-0438 (230 V)

The ST 350 is the ultimate in cost effective, programmable, convective rework equipment. No other system on the market at the same price level can compete! The system is completely self-contained and is capable of installing virtually any type of surface mount component. System includes micrometer adjusted PCB holder. Heater assembly includes spring loaded vacuum pick with 3 sizes of vacuum cups.

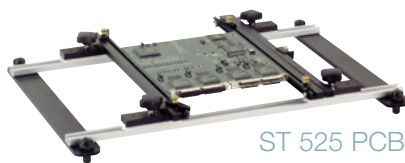
PACE's family of hot air rework systems are ideal for all SMT applications. A wide range of product features are available to meet your specific needs. They can be easily upgraded by adding one of our powerful pre-heaters and/or PCB holders.



### ST 500 Z-Axis Platform

PN: 6993-0258-P1

For the ST 300/325 handpiece.



### ST 525 PCB HOLDER

Shown with Short Legs

PN: 6993-0253-P1

Spring loaded board holder can hold up to a 12" X 12" PCBs.



### ST 550 PCB HOLDER

Shown with Long Legs

PN: 6993-0254-P1

Spring loaded board holder can hold up to a 18" X 18" PCBs.



### ST 400

PN: 8007-0435 (120 V), 8007-0436 (230 V)

The ST 400 is an analog (dial), closed loop temperature controlled pre-heater with a 400 W radiant (medium/long wave IR) heater.



### ST 450

PN: 8007-0433 (120 V), 8007-0434 (230 V)

The ST 450 is an analog (dial), closed loop temperature controlled pre-heater with built in cooling capability. The system features a 1500 W convective heater and can be linked to the ST 325 and ST 350.



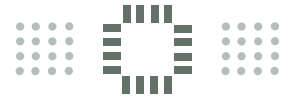
### ST 1600

PN: 8007-0563 (120 V), 8007-0564 (230 V)

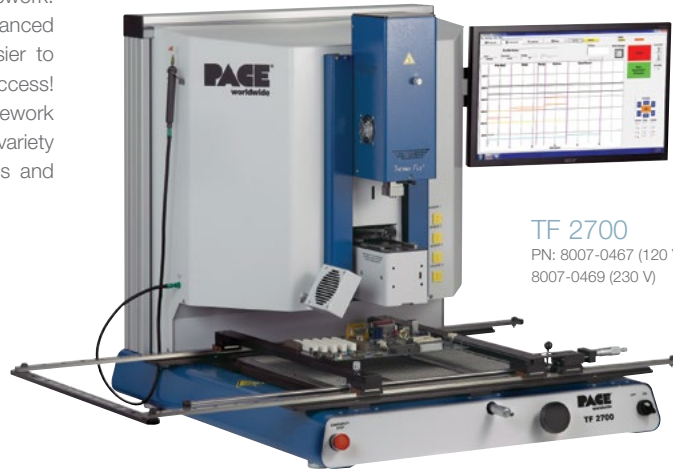
The ST 1600 four zone pre-heater will improve your soldering operations. The ST 1600 is a digital, closed loop temperature controlled pre-heater with four 400 Watt radiant (medium/long wave IR) heaters, totaling 1600 Watts. The ST 1600 is a 4-zone pre-heater that gives the user flexibility with 4 independently controlled heaters. The system allows the user to turn on/off heaters and adjust set temperature targets accordingly! Board holder included!



# Area Array Rework



**PACE's ThermoFlo® Systems** (TF 1700 & TF 2700) are the next generation in semi-automated, cost effective solutions for area array package rework. No other systems on the market have the advanced features found on these systems or are easier to use, ensuring operator acceptance and success! Designed for today's PCBs, ThermoFlo Rework Systems can safely install and remove a wide variety of CSPs, FCs, PBGAs, CBGAs, MLFs, LCCs and other SMDs.



**TF 2700**  
PN: 8007-0467 (120 V),  
8007-0469 (230 V)



Nozzle lowering over PBGA for reflow

## TF 1700

PN: 8007-0465 (120 V),  
8007-0466 (230 V)



## XR 3500/3700 Area Array Inspection Systems

XR 3500 PN: 8007-0540 (120 V), 8007-0544 (230 V)  
XR 3700 PN: 8007-0542 (120 V), 8007-0546 (230 V)



The XR 3500/3700 is ideal for inspecting BGAs, CSPs, and other electronic components. XR Systems provide immediate feedback on your installation process using realtime images. Images can be viewed through PACE's proprietary ThermoFlo Rework Station PC software or through an optional, flat screen, LCD monitor when used as a standalone unit. Both systems feature adjustable voltage and amperage to the xray tube. The XR 3500 is a 50 KV maximum output system, and the XR 3700 is a 70 KV maximum output system.



## IR 3000

PN: 8007-0534 (120 V), 8007-0535 (230 V)

The IR 3000 is ideal for installing and removing BGA and SMT components. The system uses a non-contact IR sensor to control its process, eliminating the challenges and hassles of having to affix a standard thermocouple to the PCB. The system comes with unique, PC based software that automatically develops a profile based on a few simple parameters that are entered in the profile set-up. The system features a high quality optical vision system for aligning and placing parts, as well as powerful top and bottom heaters, that ensure repeatability.



## IR 1000

PN: 8007-0536 (120 V), 8007-0537 (230 V)

The IR 1000 is a remarkably flexible and effective rework system at a price point that can't be beat! The IR 1000 is capable of installing and removing passives, QFPs, SOICs, PLCCs, MLFs, TSOPs, and course pitched BGAs. It incorporates a 500 W top heater and a 400 W pre-heater. The system features a spring loaded, adjustable vacuum pik, a cooling fan, and a built in, spring loaded, board-holder! Optional PC software is available that allows for profile management and graphing of temperature data.



# Fume Extraction



## Why is fume extraction needed?

Where manual soldering is being performed or where solder-pots/fountains are utilized, hazardous fumes are produced and workers need to be protected from them. For more information on other collection accessories and replacement filters, please go to [www.paceworldwide.com](http://www.paceworldwide.com).



## Arm-Evac 50

PN: 8889-0050-P1 (120 V or 230 V)

The Arm-Evac 50 is a unique, portable, cost-effective, bench-top fume extractor that provides wide area fume extraction or highly efficient source capture at up to two points using the optional arm attachment.



## ESD Safe Flex Arm 75mm (3")

PN: 8886-0750-P1

The most versatile and economical collection accessory. Mounts directly onto fume extractor (Arm-Evac 105, 200, or 250) or uses optional bench mounting brackets.



## Arm-Evac 105

PN: 8888-0110-P1 (120 V), 8888-0105-P1 (230 V)

The best protection from harmful fumes in its price range. The Arm-Evac 105 is portable, compact and can be easily placed on or under a work-bench. The unit includes a brushless motor and the housing is made of heavy duty, 20-gauge steel. An inlet plug is provided to seal the unused inlet if only one flex arm is used.



## Arm-Evac 200

PN: 8889-0205-P1 (120 V), 8886-0200-P1 (230 V)

The Arm-Evac 200 is designed to meet the needs of light duty production as well as rework and repair operations. Lightweight and compact, the Arm-Evac 200 installs in minutes. A wide variety of collection accessory options and filter are available. An optional silencer/mobile cart is also available.

## Arm-Evac 250

PN: 8889-0255-P1 (120 V), 8889-0250-P1 (230 V)

The Arm-Evac 250 is ideal for heavy-duty operations that need high capacity and continuous particle filter monitoring. Incorporating microprocessor technology, an easy-to-read graphical LED filter condition monitor changes from green to yellow to red as the filter becomes clogged. Additionally, flow sensors increase power to the motor as filters become blocked to assure peak performance. The filter monitoring system self-calibrates via a membrane switch on the front panel and an audible alarm alerts the operator when a filter change is required. A three-position motor speed switch is also on the front panel.



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