

PS-800 Soldering System



Compact Production Soldering System

Designed to be the perfect, compact system for repetitive manual soldering and touch-up. The PS-800 Soldering System features an innovative, compact power supply with a small footprint which is ideal for production environments. The system combines the power and superior process control advantages of SmartHeat®, with the system quality and innovative design of OK International irons. In addition, the PS-800 Soldering System utilizing SmartHeat® Technology requires no calibration

Minimal Cost of Ownership

The PS-800 Soldering System uses replaceable heater tips rather than cartridges, with the cost being comparable to that of conventional tips, making cost of ownership competitive. The unique two-piece design separates the induction coil from the heater tip. The long-life induction coil remains in the handle, while replaceable heater tips are easily removed and replaced.

OK International has developed a comprehensive line of soldering tip geometries for the PS-800 Soldering System. Plus, enhancements to SmartHeat® Technology have allowed for an increase to the plating thickness of the tips. The result is extended tip life without reducing thermal performance.

Perfect For Lead-Free Hand Soldering

The most important technical challenge of lead-free hand soldering is being able to solder heat sensitive components at 215-220°C, without causing damage. This requires a soldering iron that can respond to the thermal energy demands of the application and deliver the correct amount of energy to the joint without overshoot that can cause damage.

OK International's PS-800 Soldering System is perfect for lead-free hand soldering. SmartHeat® Technology allows the higher thermal performance requirements of lead-free alloys to be met without increasing the tip temperature. Thus, the risk of thermal damage is eliminated.

The PS-800 Soldering System allows operators to produce high quality product quickly, easily and safely. It is a reliable, hassle-free production tool that can be used to solder lead-free PCBs immediately without needing to be continually re-calibrated to meet the higher temperature requirements like traditional technologies.



Shown with optional PS-WSAS Workstand

PS-800 Soldering System

| Part No. | Description |
|-----------------|--|
| PS-800 | PS-800 Soldering System |
| Includes | |
| PS-PW1 | PS-800 Power Supply |
| PS-WSK1 | PS-800 Workstand with Sponge |
| PS-HC1 | PS-800 Soldering Handle with Coil Assembly |

Specifications

| Power Supply | |
|-------------------------------|---|
| Ambient Operating Temperature | 10 - 40°C |
| Maximum Enclosure Temperature | 65°C |
| Input Line Voltage | 90 - 240 VAC |
| Input Line Frequency | 50/60 Hz |
| Power Consumption | 50 Watts max. |
| Output Power | 35 Watts max. at 22°C ambient temperature |
| Output Frequency | 470 KHz |
| Power Cord (3-wire) | 183cm (72") |
| Dimensions (W x D x H) | 70mm x 161mm x 100mm (2.76" x 6.34" x 3.94") |

Lead-Free Process Identification

For factories that are transitioning to lead-free, it is important to identify which processes are using lead-free to avoid accidental cross-contamination of solder materials. To easily identify the lead-free processes, we have designed visual indicators that fit on the system parts where cross-contamination can occur, such as tips & workstand systems.



| Part No. | Description |
|-----------|--|
| PS-WSAS-G | Auto Sleep Workstand with Green Cradle |
| AC-CK1 | Green cartridge identification ring for PHT Consumables (Pack of 50) |

Accessories & Spare Parts

| Part No. | Description |
|----------|--|
| PS-PW1 | PS-800 Power Supply |
| PS-WSK1 | PS-800 Workstand with Sponge |
| PS-WSC1 | PS-800 Cradle |
| PS-WSAS | PS-800 Auto Sleep Workstand with Sponge |
| AC-YS4 | Sponge 3.12" ϕ x 1" (pack of 10) |
| PS-HC1 | PS-800 Soldering Handle with Coil Assembly |
| PS-CA1 | PS-800 Coil Assembly |
| AC-CP2 | Heater Tip Removal Pad |
| AC-PM | Power Meter – AC |



PS-800 Heater Tips

| | | | |
|--|--|--|---|
| | PHT-XY0315 Chisel Fine 30° 1.0mm (.04") | | PHT-XY2017 Conical 60° 0.25mm (.01") |
| | PHT-XY0326 Chisel Fine/Bent 30° 1.5mm (.06") | | PHT-XY2035 Conical Fine 0.5mm (.02") |
| | PHT-XY0335 Chisel Fine 30° 1.78mm (.07") | | PHT-XY2057 Conical Fine 1.0mm (.04") |
| | PHT-XY1355 Chisel 30° 2.5mm (.10") | | PHT-XY2327 Conical Fine/Bent 0.4mm (.016") |
| | PHT-XY0325 Chisel 60° 1.5mm (.06") | | PHT-XY2335 Conical Fine 30° 0.5mm (.02") |
| | PHT-XY1367 Chisel 30° 3.0mm (.12") | | PHT-XY2337 Conical Fine/Bent 30° 0.5mm (.02") |
| | PHT-XY1384 Chisel 30° 5.0mm (.197") | | PHT-XY3035 Conical 30° 0.5mm (.02") |

650 Series XY = 65, 750 Series XY = 75

Dimensions and artwork listed are for indication/guidance only. Numbers have been rounded up.

Please contact your local technical support if you require specific technical information.

PS-800 Heater Tips

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|--|---|--|--|
| | PHT-XY3047 Conical 1.2mm (.05") | | PHT-XY4497 Hoof 45° 4.0mm (.16") |
| | PHT-XY3057 Power Conical 1.0mm (.04") | | PHT-XY4697 Hoof 60° 4.0mm (.16") |
| | PHT-XY3067 Conical Long 1.0mm (.04") | | PHT-XY4627F Mini Hoof 60° Face Only 1.0mm (.04") |
| | PHT-XY3077 Power Conical 1.0mm (.04") | | PHT-XY4637F Mini Hoof 60° Face Only 1.5mm (.06") |
| | PHT-XY4607 Mini Hoof 60° 0.5mm (.02") | | PHT-XY4467F Hoof 45° Face Only 2.0mm (.08") |
| | PHT-XY4617 Mini Hoof 45° 0.5mm (.02") | | PHT-XY4487F Hoof 45° Face Only 3.0mm (.12") |
| | PHT-XY4627 Mini Hoof 60° 1.0mm (.04") | | PHT-XY4497F Hoof 45°, 4.0mm (.16") |
| | PHT-XY4637 Mini Hoof 60° 1.5mm (.06") | | PHT-XY5437 Knife Sharp 45° 3.0mm (.12") |
| | PHT-XY4467 Hoof 45° 2.0mm (.08") | | PHT-XY5457 Knife Sharp 45° 4.5mm (.18") |
| | PHT-XY4667 Hoof 60° 2.0mm (.08") | | PHT-XY5477 Knife Bevel 45° 5.0mm (.20") |
| | PHT-XY4487 Hoof 45° 3.0mm (.12") | | PHT-XY5487 Knife Sharp 45° 5.0mm (.20") |
| | PHT-XY4687 Hoof 60° 3.0mm (.12") | | |

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