



*Precision Systems for the Electronics Bench*

## PS-800 SOLDERING SYSTEM



PS-800

# PS-800 Soldering System



## The Second Technology Shift In Hand Soldering

Driven by today 's technologies and economic demands, Metcal's new PS-800 Soldering System represents the most significant development in hand soldering since Metcal first introduced SmartHeat® technology (fixed temperature/variable power control) in the 1980's. The PS-800 Soldering System revolutionises hand soldering by combining the power and superior process control advantages of SmartHeat®, with the system quality and innovative design of Metcal irons.

Designed to be the perfect, compact soldering system for repetitive manual assembly and touch-up, the PS-800 Soldering System incorporates an innovative, compact power supply that fits on or under the bench. In addition, the PS-800 Soldering System requires no calibration.

## Minimal Cost Of Ownership

The PS-800 Soldering System employs replaceable heater tips rather than cartridges, making cost of ownership extremely 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. Most importantly, the cost of the heater tips is comparable to that of conventional tips.

Metcal has developed 33 soldering tip geometries for the PS-800 Soldering System, each available in a variety of temperature ranges. Plus, enhancements to SmartHeat® technology have allowed us to increase 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 system that can deliver high levels of accuracy to a traceable standard.

Metcal's PS-800 Soldering System is perfect for lead-free hand soldering. As SmartHeat® maintains a constant tip temperature it allows the higher temperature 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.

## PS-800 SOLDERING SYSTEM

System Includes Power Supply With Power Cord, Hand-Piece With Cord, Workstand With Sponge And Cartridge Removal Pad

| Part No. | Description             |
|----------|-------------------------|
| PS-800   | PS-800 Soldering System |

### ACCESSORIES & SPARE PARTS

|         |  |
|---------|--|
| PS-PW1  | PS-800 Power Supply                        |
| PS-WSK1 | PS-800 Workstand with Sponge               |
| PS-WSC1 | PS-800 Cradle                              |
| AC-YS4  | Sponge 3.12" $\phi$ 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                           |

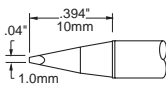
Contents of this brochure are subject to change without notice.



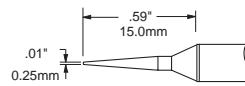
PS-800



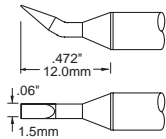
### PS-800 HEATER TIPS



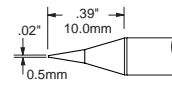
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Chisel Fine 30°  
1.0mm (.04")



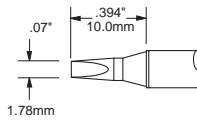
**PHT-XY2017**  
Conical 60°  
0.25mm (.01")



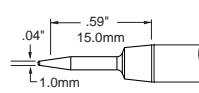
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1.5mm (.06")



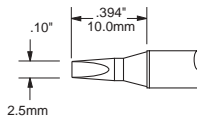
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Conical Fine  
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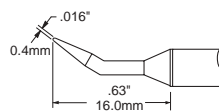
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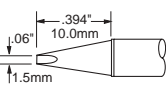
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Conical Fine  
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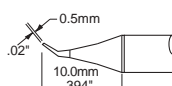
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Chisel 30°  
2.5mm (.10")



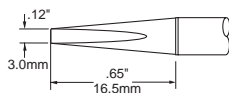
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Conical Fine Bent  
0.4mm (.016")



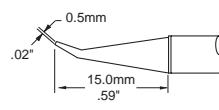
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Chisel 60°  
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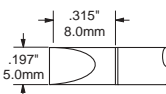
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0.5mm (.02")



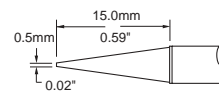
**PHT-XY1367**  
Chisel 30°  
3.0mm (.12")



**PHT-XY2337**  
Conical Fine/Bent 30°  
0.5mm (.02")



**PHT-XY1384**  
Chisel 30°  
5.0mm (.197")

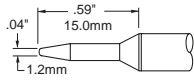


**PHT-XY3035**  
Conical 30°  
0.5mm (.02")

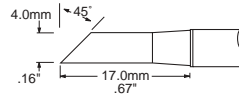
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Dimensions and artwork listed are for indication/guidance only. Numbers have been rounded up. Please contact your local technical support if you require specific technical information.

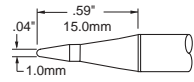
## PS-800 HEATER TIPS



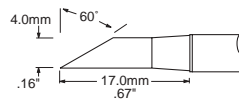
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Conical  
1.2mm (.05")



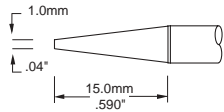
**PHT-XY4497**  
Hoof 45°  
4.0mm (.16")



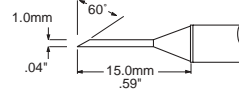
**PHT-XY3057**  
Power Conical  
1.0mm (.04")



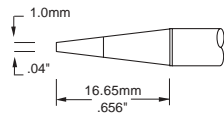
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Hoof 60°  
4.0mm (.16")



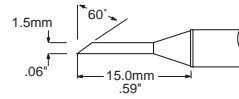
**PHT-XY3067**  
Conical Long  
1.0mm (.04")



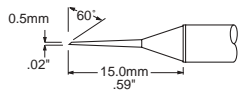
**PHT-XY4627F**  
Minihoof 60°  
Face Only  
1.0mm (.04")



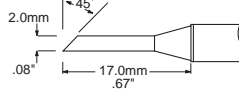
**PHT-XY3077**  
Power Conical  
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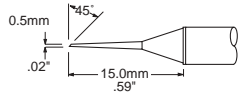
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Minihoof 60°  
Face Only  
1.5mm (.06")



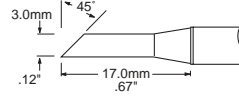
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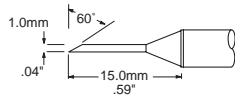
**PHT-XY4467F**  
Hoof 45°  
Face Only  
2.0mm (.08")



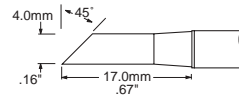
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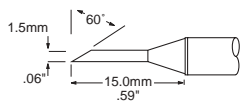
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Face Only  
3.0mm (.12")



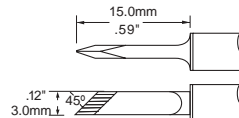
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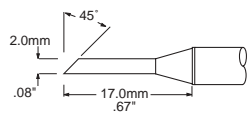
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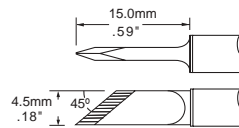
**PHT-XY4637**  
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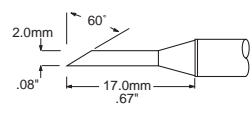
**PHT-XY5437**  
Knife Sharp 45°  
3.0mm (.12")



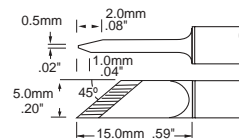
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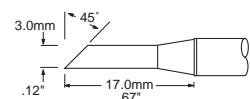
**PHT-XY5457**  
Knife Sharp 45°  
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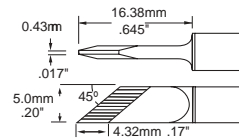
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Hoof 60°  
2.0mm (.08")



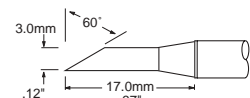
**PHT-XY5477**  
Knife Bevel 45°  
5.0mm (.20")



**PHT-XY4487**  
Hoof 45°  
3.0mm (.12")



**PHT-XY5487**  
Knife Sharp 45°  
5.0mm (.20")



**PHT-XY4687**  
Hoof 60°  
3.0mm (.12")

### 650 SERIES XY=65, 750 SERIES XY=75

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PS-800



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