

## Solsonic Soldering Iron



Ultrasonic soldering systems offer the advantage of the fluxless soldering of many dissimilar metals in common use as well as previously difficult to solder materials such as aluminium, ceramics and glass.

The unit consists of the lightweight soldering iron itself, which is rated at 60W, and is fitted with an interchangeable copper bit. The ultrasonic transducer is built into the soldering iron handle.

The 40 kHz ultrasonic generator is housed in the main unit which also incorporates a digital display showing tip temperature, ultrasonic frequency and power level settings. The generator has 9 levels of power plus a zero power level that allows the iron to be used in the conventional manner.

The ultrasonic power to the iron is controlled via a footswitch, or if continuous use is needed, a push button on the front panel will turn it on. The temperature and ultrasonic power levels are controlled by push buttons on the front panel.

To prevent overheating of the transducer the unit uses a continuous air supply supplied either by a small pump, not supplied, or a suitably rated clean air supply.

**Advantages**

- No surface pre-treatment required.
- No flux, therefore, no post cleaning.
- Stronger non-porous bonds as solder is forced into the surface layer of the material.

**Applications**

- Joining anodised or plain aluminium, stainless steel and other metals such as niobium and also ceramics.
- Suitable for surface lining glass.
- Used for filling blowholes in aluminium and magnesium castings.

**Solsonic Iron Specifications**

<b>Frequency</b>	<b>40kHz (auto tunes to transducer's resonant frequency.)</b>
<b>Output power</b>	1 – 9 levels + off for use as conventional iron
<b>Temperature range</b>	50°C - 450°C
<b>Connectivity</b>	RS232 remote mode, on/off, temperature, ultrasonic power level
<b>Display</b>	Temperature, Frequency, ultrasonic power level
<b>Power supply</b>	110V/230V AC, 50 - 60Hz
<b>Dimensions (approx)</b>	(W)200 x (inc rest)(H)180 (inc carry handle) x (D) 235 mm
<b>Unit weight</b>	4.2 kg
<b>Tip material</b>	High density hard copper
<b>Tip size</b>	3 tips supplied as standard-choice of conical, chisel, point
<b>Heater</b>	80 W

<b>Handle (cable length)</b>	1.5m
<b>Foot switch (cable length)</b>	1.8m
<b>Handle weight</b>	0.3kg

*Solbraze has a policy of continual improvement and as a result equipment supplied may vary from that illustrated*