SOLBRAZE
Ultrasonic Soldering, Resistance Soldering and Brazing

Solsonic Soldering Iron

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

The use of ultrasonic solder pots is well documented but in the light electrical, electronic and coil winding industries not all assemblies are suitable for dipping into molten solder. For these applications and many other the Solsonic Soldering Iron is often the answer.

The unit consists of the soldering iron itself, which is rated at 80W and fitted with an interchangeable copper bit. The ultrasonic transducer is built into the soldering iron handle.

The 40kHz ultrasonic generator is housed in the main unit which also incorporates the temperature and ultrasonic frequency settings. The generator has five 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 then controlled via a footswitch. The temperature is controlled on the front panel and a digital readout indicates the bit temperature.

To prevent overheating the unit uses a continuous air supply supplied either by a small pump / compressor or suitably rated shop 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.