Introduction:

Principle of metal welding: All welding needs to be melted by heat, and the material is melted at a high temperature and welded to each material. This hot melt process is designed with many auxiliary means, such as adding flux, ultrasonic, and laser. Ultrasonic welding is the most economical and environmentally friendly way of welding, which produces instantaneous high-temperature hot-melt material welding through high-frequency physical vibration.

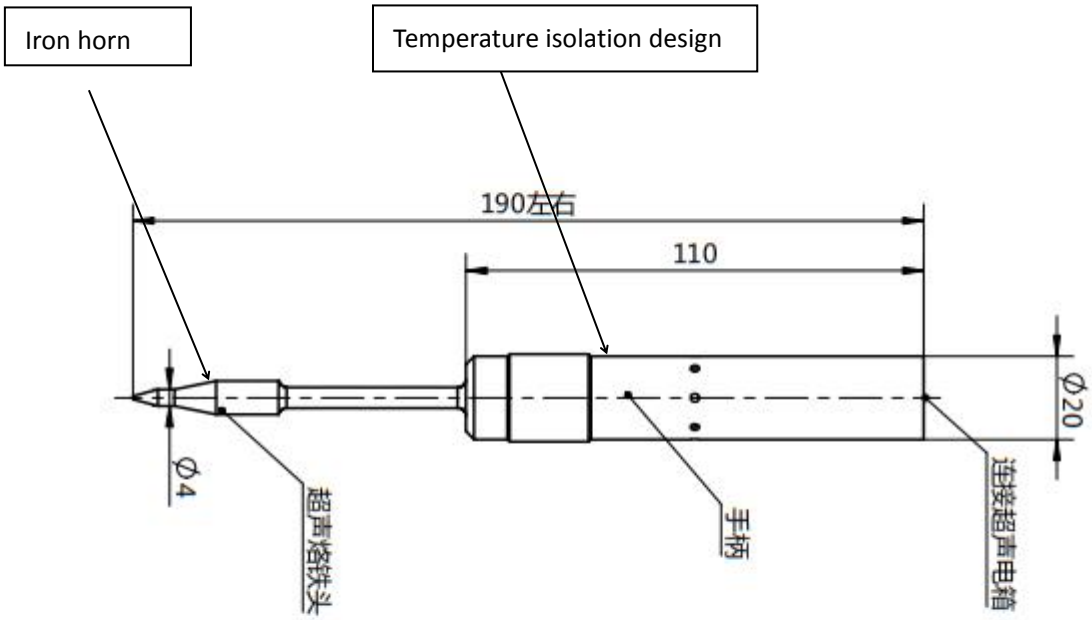
Ultrasonic soldering is a specialized soldering process that eliminates the need for chemical flux. In place of flux, it uses acoustic energy to disrupt oxides that form on molten solder and base metal surfaces during the joining process. Many times ultrasonic soldering is used to join difficult-to-wet materials like aluminum, titanium, glass, ceramics and dissimilar materials. Applications include electronics, medical decives, and structural components, in various base metal combinations, such as copper, aluminum, and titanium, graphite, carbides and more.

There are several advantages to ultrasonic soldering... It is a fluxless process, utiizing acoustically driven mechanical engery to fracture and disrupt oxide films on solder and base materials to promote solder wetting and and adherence. Flux can contaminate and damage/corrode senstive materias, so fluxless soldering is advantageous. Ultrasonic soldering can also be very useful in senstive base materials, since the soldering iron tips only need be immersed in the molten solder pool for the mechanical activation to work.

Parameter:

Model No.		RPS-SI60
Ultrasonic Frequency		60Khz
Maximum Output		100 Watt
Temperature Range		150 ~ 400 °C
Power Supply		220V / 50-60 Hz
Ultrasonic Generator	Size	250(W) x 310(L) x 135(H) mm
	Weight	5 Kg
	Feature	Ultrasonic Amplitude Adjustable
Iron Handle Length & Diameter		190mm / Ø20
Avail Soldering Matrial		ITO Glass, AL, Mo, Cu etc.,

Special design:



Tips:

After stop working , you need keep the horn in safe place, the tip horn with high temperature, can't touch before completely cooling .