

## 40 kHz Portable Ultrasonic Wire Splicer

*AmTech's GUN-40 joins wires quickly and reliably while providing maximum maneuverability. It splices up to 4 #16 AWG wires in-line, or in a pig tail configuration. Splicing ultrasonically results in a superior electrical connection over crimping, soldering, or resistance welding, and offers savings in power consumption, elimination of consumables, and longer tool life.*

### EASY TO USE

The GUN 40's convenient design enables the operator to feed wires easily into the splicing nest. A gathering mechanism positions wires accurately and catches frayed wires to ensure a high quality weld. Typically, a weld is completed in less than one half second. Since ultrasonics does not generate appreciable heat, wires can be handled immediately after splicing.

The GUN 40 can be readily used for wire tipping (the solidification of the ends of strands of wires to keep them from splaying). This process is especially useful to prevent unravelling when wires must be plugged into a connector. The wire is placed into the large nest area and the GUN 40 is activated to collect the strands and weld them into a precise configuration.

The GUN 40 is easily mounted into an automated wire preparation machine for total automation of the tipping process. Production rates in the automated mode can be as high as 60 parts per minute. The rugged construction of this system and long tool life makes the GUN 40 the perfect method for wire tipping.

### ECONOMICAL

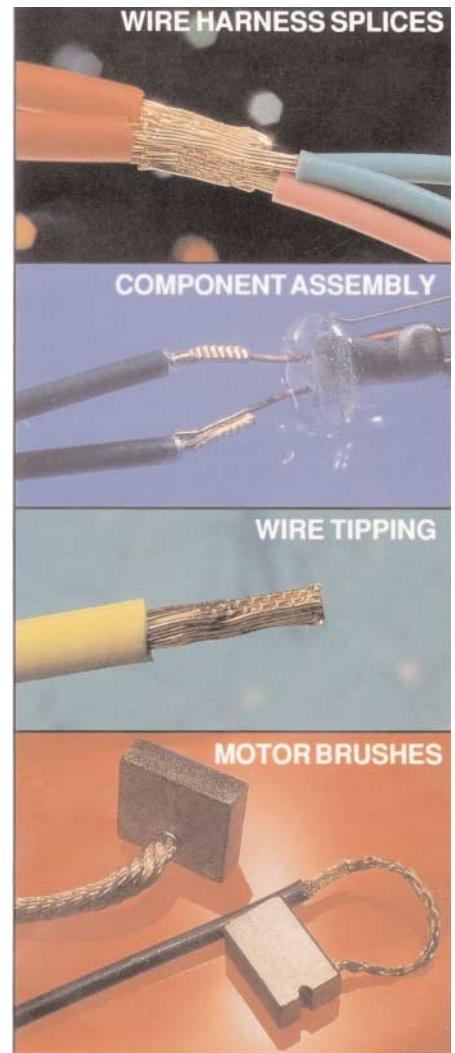
Tool life usually exceeds 100,000 welds, and the horn can be resurfaced for additional savings. Electrical power consumption with ultrasonics averages only 1/30 of the amount used by resistance welding, and ultrasonic welding eliminates the need for costly clips, solder, and flux.

### TECHNICAL SUPPORT

Every AmTech product is backed by our technical staff, who provide our customers with training in operation and maintenance.



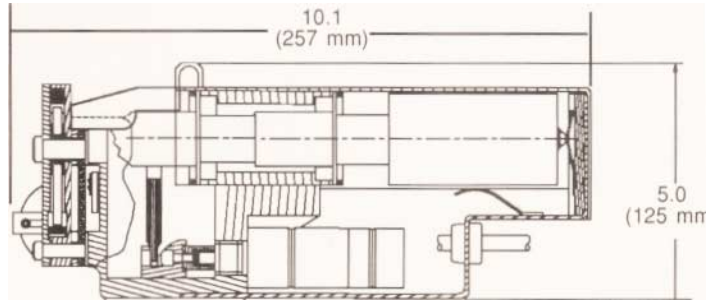
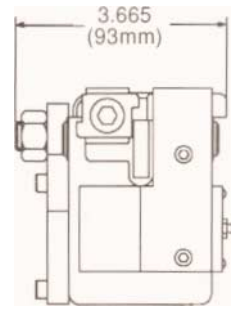
### IDEAL APPLICATIONS:





The GUN 40 can be readily used for wire tipping, which is the solidification of the ends of strands of wires to keep them from splaying. This process is especially useful to prevent unravelling when wires must be plugged into a connector. The wire is placed into the large nest area and the GUN 40 is activated to collect the strands and weld them into a precise configuration.

The GUN 40 is easily mounted into an automated wire preparation machine for total automation of the tipping process. Production rates in the automated mode can be as high as 60 parts per minute. The rugged construction of this system and long tool life makes the GUN 40 the perfect method for wire tipping.



	Weight	Height	Width	Length	Requirements
GUN 40	2.3 kg	125 mm	93 mm	257 mm	Pneumatically actuated- 80 psig clean, dry air.

Electrical requirements are 110 Volts or 200-245 Volts AC, fused at 5 amp 50/60 Hz.

### ADVANCED PROCESS CONTROL WITH THE TOUCH SCREEN CONTROLLER

The AmTech Touch Screen controller monitors and displays all ultrasonic metal weld parameters to maintain the highest standards in weld quality. It features an advanced microprocessor control that monitors the weld cycle through a power feedback signal. The power in watts applied to the weld is integrated over the weld time to determine the total energy applied. This automatically adjusts the weld cycle to produce perfect quality welds, regardless of part variations.

Control limits on the Touch Screen controller can be preset for weld time and power. If any weld falls outside the preset limits, a signal alerts the operator to isolate the suspect assembly. A printer port and RS232 communication port are standard to support SPC and ISO 9000 requirements.



Touch Screen Controller