

The demand for minimum inventory levels requires "just in time" (J.I.T.) manufacturing techniques. Tube filling and sealing lines must be capable of quick changeover from laminates to high and low density plastic tubes and back again with perfect quality and reliability. Ultrasonic tube sealing offers this capability with added benefits not available with other systems.

Benefits of ultrasonic welding

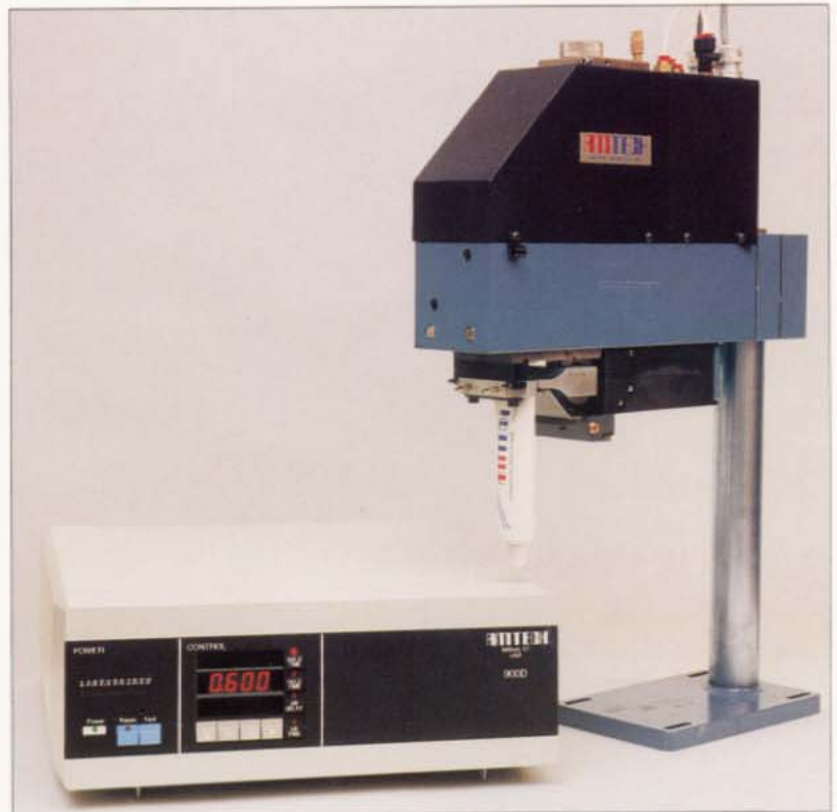
AmTech sealing systems are designed to be mounted as a station on virtually all types of filling machines, whether in-line or rotary. They require no warm-up time, since no heat is actually applied to the tube being sealed. Every tube goes through the prescribed weld cycle, so that stops and starts during the process will not produce overheated or underheated tubes; this significantly reduces scrap.

Since no other heaters or hot air streams are applied, the ultrasonic system is ideally suited for safely sealing tubes filled with low flash point materials such as products with a high alcohol content.

The intense scrubbing action of the ultrasonic process disperses product overflow such as stringers, or splashes, which may occur during filling. No other process has been so successful in eliminating this problem.

The AmTech ST-40 eliminates the need to stop and change tooling when changing from high to low density plastic tubes or laminates. A simple one-minute adjustment to the actuator permits sealing a variety of tube sizes and materials.

Far less operating energy is needed for ultrasonic tube sealing than for other sealing methods. When the unit is operating at full power, 700 watts are generated during the weld cycle, which is typically under one half second in duration. While the machine is "idling" (not actually welding a tube), the power draw is only about 10 watts.



AmTech's Model ST-40, an independent tube sealing station, mounts directly onto any existing filling machine.

