

TUBING WELDING MACHINE



COMPACT, EASY TO USE AND COST-EFFECTIVE FOR WELDING A WIDE RANGE OF TUBING SIZES AND MATERIALS

- Easy programmable touch screen with storable configurations for setting welding parameters
- Custom jaws optimize the weld for a lower profile
- Wide range of custom sizes available
- Automated heat shields protect surrounding catheter components, such as the balloon
- Optional LCD vision system with high-resolution color monitor improving visibility of the weld for operator efficiency

DESCRIPTION

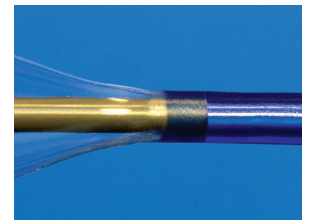
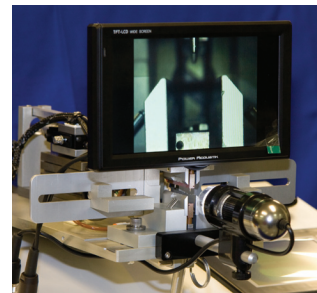
The TBW-500 Tubing Welding Machine is a benchtop system that welds a variety of tubing sizes and materials. It is designed to weld similar polymer components such as inner lumen to distal shaft or balloon distal and proximal necks to the catheter shaft. The TBW-500 provides a strong weld with a low profile and is easy to use while meeting key production requirements, such as speed, accuracy and performance.

The custom weld jaws and heat shields can be supplied with up to six weld grooves of different sizes in order to accommodate various shaft sizes without having to change out the jaws. The welding jaw temperature setting feature will initiate welds only when the jaws are heated within 5° F (3° C) of the set point. This, along with the thermocouple burnout and wire disconnect detection feature, improves production yields.

HOW IT WORKS

The TBW-500 programmable touch screen configures jaw set point temperature, dwell time, air cool time, and single or double weld. It is programmable in either Fahrenheit or Celsius and provides a user configurable lockout password.

Start the weld process by foot pedal or front panel activation which will initiate the automated heat shield. The heat shield provides protection to surrounding catheter components, such as the balloon from exposure to radiant heat of the jaws. Heat shields also provide precise positioning by clamping tubing or shaft so that the welding jaws can then engage the shaft accurately and symmetrically. The hot weld jaws grip the tubing and heat it to its fusing temperature, resulting in a strong homogeneous weld joint.



Optional Vision System

SPECIFICATIONS

Dimensions:	14" H x 22½" W x 15" D
Power Options:	Part #724015-1 (110V) Part #724015-2 (220V)
Heating Power:	25 W (110V) 50 W (220V)
Pressure Gauge Range:	0 – 11 BAR (0-160 PSI)
Pressure Accuracy:	± 0.2 BAR (± 3.0 PSI)
Dwell Time Range:	0 – 99.9 sec.
Heater Jaw Temperature Setting Range:	70 to 500° F, 20 to 260° C
Temperature Controller:	1° F/C increments
Temperature Accuracy:	± 2° F, ± 1° C
Heat Conductor:	Tellurium copper
Vision System Magnification:	200X continuous magnification