

# Thermocouple and Fine Wire Welder

## Make Quality Beaded Thermocouples



- ✓ Wire-Holding Pliers and Lead
- ✓ Safety Glasses
- ✓ Magnifying Eyeglass
- ✓ Carbon Electrodes
- ✓ Spare 2 A Fuse
- ✓ Argon Hose
- ✓ Power Cord
- ✓ Footswitch for Greater Ease of Use



The TL-WELD is designed for sensor manufacturers who produce commercial-grade thermocouple junctions, and for users of large numbers of exposed junction thermocouples, such as test and development laboratories where multipoint temperature sensing of test pieces is required.

No special skills are needed and most people will be capable of producing quality work with minimal practice. The instrument can be operated via the front panel or by using the footswitch.

This model is suitable for welding wires up to 1.1 mm (0.043") in diameter and has an argon gas shield facility.

A satisfactory thermocouple junction is produced without using argon, but where argon is available a momentary purge is automatically triggered immediately prior to the weld to give optimum weld integrity.

### Specifications

#### General

**Energy Output:** 0 to 60 joules

**Welding Capacity:** Wires up to 1.1 mm (0.043") in diameter

**Duty Cycle:** Minimum 5 to 10 welds/minute

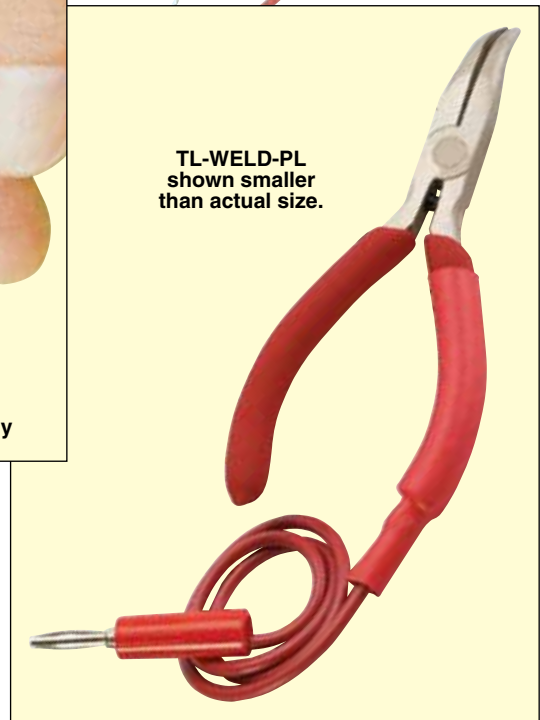
#### Mechanical

**Dimensions:**  
220 W x 120 H x 250 mm D  
(8.7 x 4.7 x 9.9")

**Weight:** 4 kg (8.8 lb)



Beaded Thermocouples Only



#### Electrical

##### Power Supply:

**Standard:** 110 to 120 Vac

**Optional:** 220 to 250 Vac,  
50 to 60 Hz

##### Power Consumption:

Max 170 VA dropping to  
20 VA during charging

**To Order** *Vist [omega.com/tl\\_weld](http://omega.com/tl_weld) for Pricing and Details*

Model No.	Description
TL-WELD	Thermocouple and fine wire welder

#### Accessory

Model No.	Description
TL-WELD-CAR	Replacement carbon electrodes (package of 5)
TL-WELD-PL	Pliers for TL-WELD

*For 220 Vac, add suffix "220V" no extra charge.*

**Ordering Example:** TL-WELD, 120 Vac powered welder and TL-WELD-CAR, spare carbon electrodes.