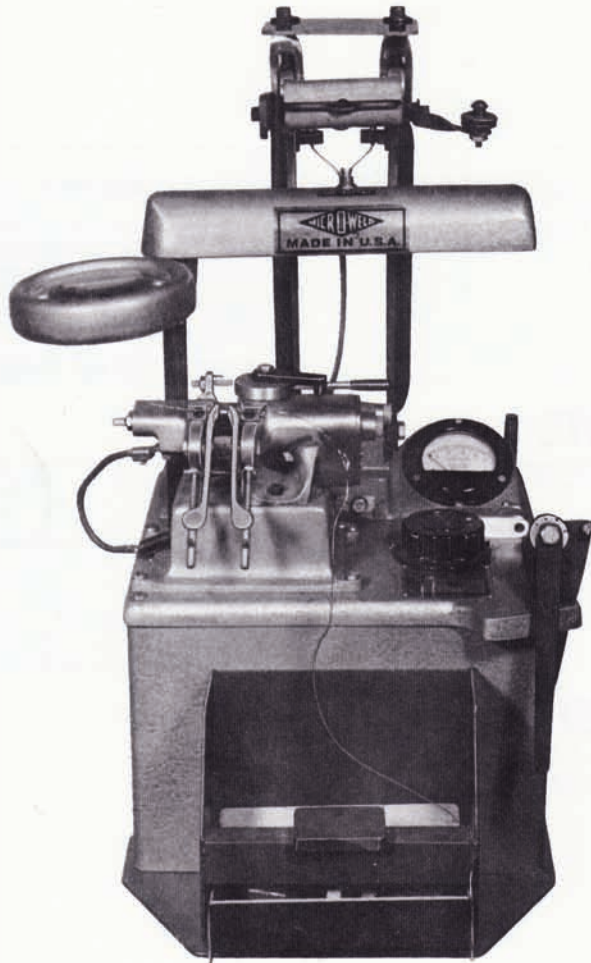


# CERAMIC FUSION WELDER FOR STRANDED STEEL TIRE CORD

## MICRO-WELD BUTT WELDER MODEL MTE-1



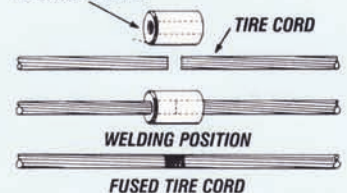
Model MTE-1 is a special, newly developed MICRO-WELD BUTT WELDER for use in processing and manufacturing stranded steel tire cord material. With this welder over 50 years of engineering experience in this highly specialized field are at your command.

The unique feature of this MICRO-WELD WELDER is a ceramic sleeve acting as a crucible, to contain, fuse and join steel tire cord materials. Annealing the weld zone, which is so important when welding high carbon steel cord materials, is easily accomplished on the MTE 1 model welder because of the radiant type anneal device with a large diameter temperature meter.

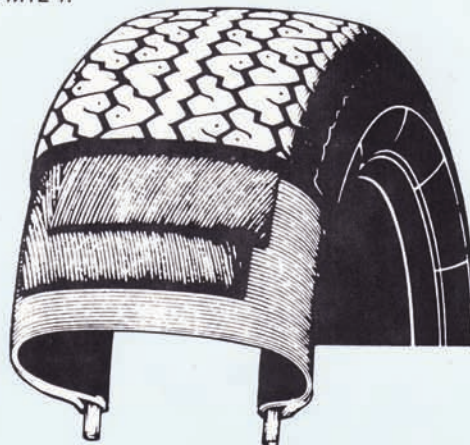
### TYPICAL WELDING CYCLE FOR WELDING STRAND STEEL WIRE TIRE CORD MATERIALS

- A. Square cut steel cord ends.
- B. Place steel cord ends, abutting midway and within special ceramic sleeve.
- C. Clamp into welding jaws.
- D. Push operating switch which automatically sequences pressure and weld heat.
- E. Remove welded steel cord and fracture ceramic sleeve.
- F. Place into special radiant type anneal device and anneal weld zone.
- G. No deburring procedure is required as weld upset is contained by ceramic sleeve and assists in fusing all strands of two cords together.

#### CERAMIC SLEEVE



Wire to make the steel belts used in tires such as this are welded on MICRO-WELD BUTT WELDER MODEL MTE 1.



A full compliment of additional conventional MICRO-WELD BUTT WELDERS, for both welding rod and wire, .005" to .375" diameters, are available to complete processing and manufacturing of steel tire cord materials. Models SEMT, ACMT, J4S and J5S MICRO-WELD BUTT WELDERS—Details upon request.

**MICROWELD**  
**MICRO**  
PRODUCTS COMPANY

**Model MTE-1  
BUTT WELDER  
Steel Tire Cord**

# CERAMIC FUSION MICRO-WELD BUTT WELDER

## SPECIFICATIONS

Type Materials Stock Size Range  Operating Voltages Line Demand	<b>Model MTE-1</b>
	Multiple wire steel strand cord materials Nominal Composite size: .021" to .047" diameter (.54mm to 1.191mm) 120 volts, 60 hertz 5 ampere on 120 volts 0.6 KVA rating

## DIMENSIONS AND WEIGHTS

Model	Weight	Welding Die Height	Overall Height	Base Size
Bench Type	86 lbs 39 kg	12½" 31.8 cm	25½" 65 cm	13" x 12" 33.0 cm x 30.5 cm
Truck Type	130 lbs 59 kg	44" 112 cm	60" 152.4 cm	24" x 24" 61 cm x 61 cm

### FEATURES:

- Welds made with aid of ceramic sleeve to contain all strands
- Special anneal device with holding clips—anneal heat meter and separate transformer
- Weld heat—meter indicated, a/c type transformer
- Sensitive straight slide movable headpiece
- Debris tray with sleeve fracturing anvil
- Magnifying glass
- Squaring Shear
- Power Cord
- Fluorescent light
- Separate anneal switch
- Adjustable spring upset tension
- Adjustable limit switch

### OPTIONAL FEATURES:

- 4-Wheel truck with 2-stationary and 2-swivel wheel
- Voltages for 240, 380, 480 or 600 volts

