

# Meeting the demands for higher productivity and quality



## Micro-Weld Models HP-1 and GP-1 Butt Welders

Butt welding your standard copper and aluminum conductors will allow you to continuously process them without shutting down your line.

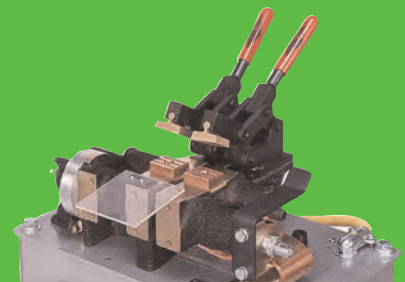
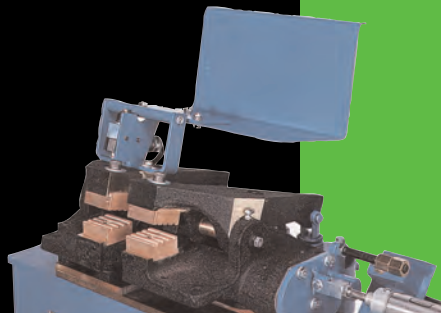
Micro-Weld ceramic fusion welders are the standard of the industry and are used by all the top manufacturers to increase the quality and decrease the cost of their stranded conductor.

The weld is made within the specially designed ceramic sleeve which locks all filaments together producing a weld joint with no burr.

Micro-Weld ceramic fusion welders are used on extrusion lines as well as the re-spooling operation. They also help to drastically reduce scrap.

Quality and productivity backed with over 80 years of experience, service and support. These are some of the reasons why the Micro-Weld name is respected all over the world.

For more information on our HP-1 and GP-1 butt welders or Micro-Weld's complete line of welders, call us at 1-800-872-1068.



**MADE IN THE  
USA**

See Page 2 For Details

# MODEL HP-1 and GP-1

## ELECTRIC RESISTANCE BUTT WELDERS

### Specifications

	Model GP-1	Model HP-1
Type of Weld Process	Ceramic fusion	Ceramic fusion
Welding Range	20 ga to 8 ga AWG-Copper	8 ga to 4/0 AWG-Copper 8 ga to 250 MCM-Aluminum
Material Suitability	Strand or bunched conductor	Strand or bunched conductor
Standard Operating Voltages	120 volts	240, 480 or 600 volts
Input Power Cycle	60 hertz	60 hertz
Line Demand	20 amps on 120 volts	160 amps on 240 volts 80 amps on 480 volts 65 amps on 600 volts
Single Phase A/C Transformer	2.4 KVA maximum rating	38.4 KVA maximum rating
Weld heat selection switch	6 point	12 point
Clamp method	Compound hand lever	Pneumatic, foot controlled
Upset method	Adjustable spring	Pneumatic, adjustable
Mounting	4-caster wheels or bench	4-caster wheels

### Dimensions and Weights

Height overall	20" -bench, 51"-truck	46"
Floor or bench space	9" x 15"-bench type 24" x 24"-truck type	39" x 29"
Welding die height	11"-bench type 42"-truck type	41"
Weight	170 lbs.-bench type 215 lbs.-truck type	640 lbs.

### Standard Features

- Micro-Weld Quality and Workmanship
- Heavy Duty Construction & Components
- Easy to Operate Controls
- Low Maintenance Cost
- Easy to Set Welding Parameters
- Safety Electrical Switch Circuits
- Heavy-Duty Weld Heat Selection Switch
- Ceramic Sleeve Acts as Welding Crucible
- No-Upset Burr Formation During Weld Process, All Strands Locked Into Weld Coalescence
- Sensitive Straight Slide Moveable Headpiece Assembly Equipped with Ball Bearings

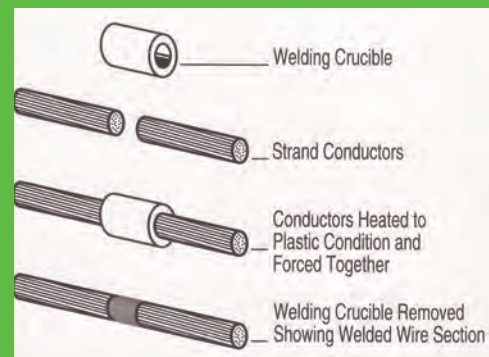
### Optional Features

- | Model GP-1                | Model HP-1   |
|---------------------------|--|
| • 4-Wheel Enclosed Truck  | • Machinist Vise With Mounting Brackets                    |
| • 4-Wheel Post Type Truck | • Pneumatic Square Cut Shear for Conductor End Preparation |
| • Special Voltages        | • Canadian Electrical Specifications                       |
| • 50 Hertz Service        | • Special Voltages   |
| • Export Packing          | • 50 Hertz Service   |
| • Hand Swage Tool         | • Export Packing   |

### Comparative Information

AWG or MCM	Nominal Diameter	Cross-Sectional Area
• 8 ga	• .146"	• 11mm <sup>2</sup>
• 4 ga	• .232"	• 27mm <sup>2</sup>
• 4/0 ga	• .528"	• 122mm <sup>2</sup>
• 250 MCM	• .547"	• 126mm <sup>2</sup>

## Micro-Weld Butt Welders from Micro Products



Unsurpassed quality  
construction

Excellent welds with  
consistency

Easy to operate

Customer service  
and support



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