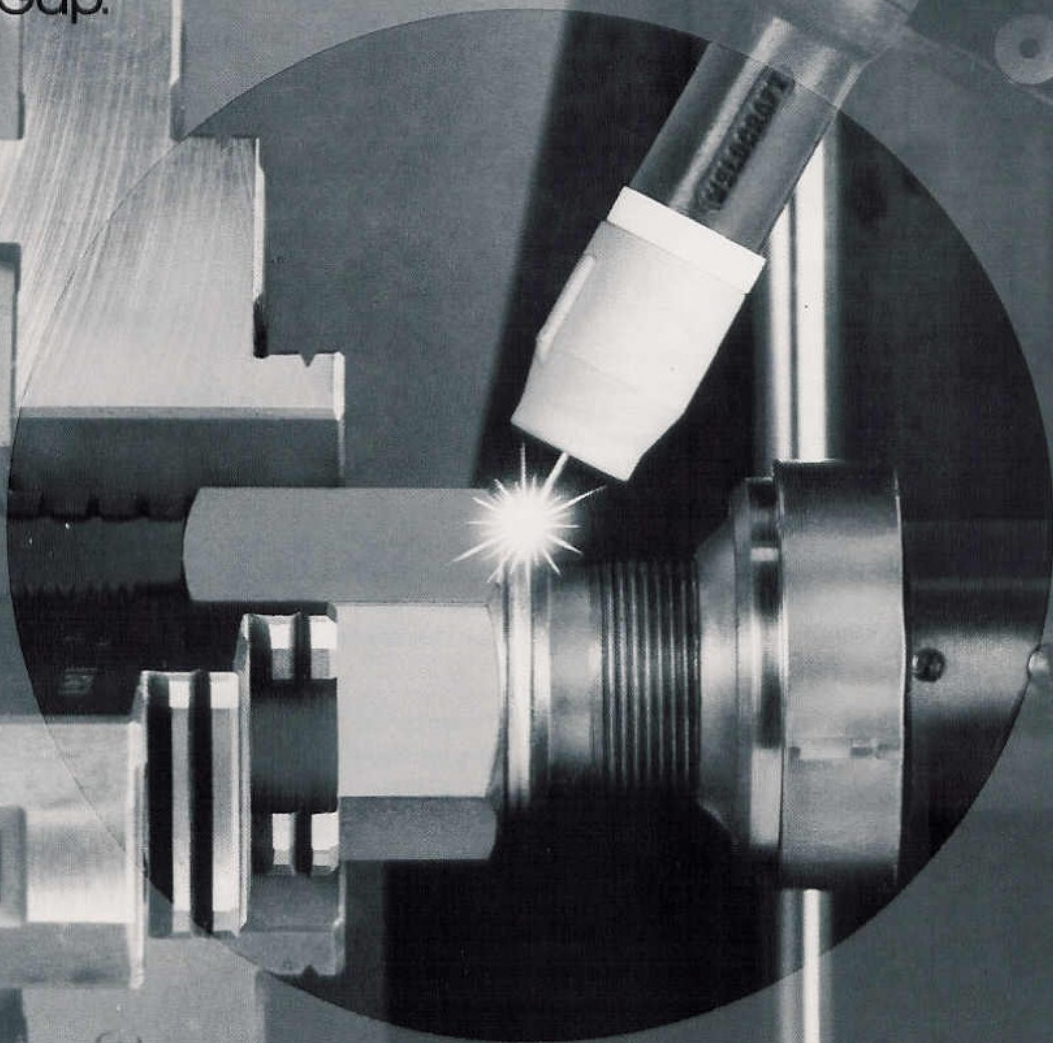


# EG-4

## ELECTRO-GAUGE

An Electromechanical Device  
for Setting a Precise Tungsten to  
Work Gap.



WELDLOGIC Automated Welding Systems



# EG-4

## ELECTRO-GAUGE



One area which is commonly overlooked in microarc welding is arc length. Weldlogic's "Electro-Gauge" System, consisting of a precision Z axis stepper motor driven slide and microprocessor electronic control, meets this need.

The Electro-Gauge automatically lowers the welding torch to the work surface and stops when the electrode is in contact with the weldment. After stopping above the work surface, the stepper drive increments the torch up the distance dialed into the control in thousandths of an inch accurate to .0005" and then holds the torch at this position during the weld sequence. At the end of the weld sequence the torch automatically moves up to clear the weld nest area. Maximum up stroke is 3" standard, 6" on special order.

The accurate and repeatable arc length the Electro-Gauge provides eliminates weld penetration and heat input variations caused by inaccurate manual tungsten adjustment.

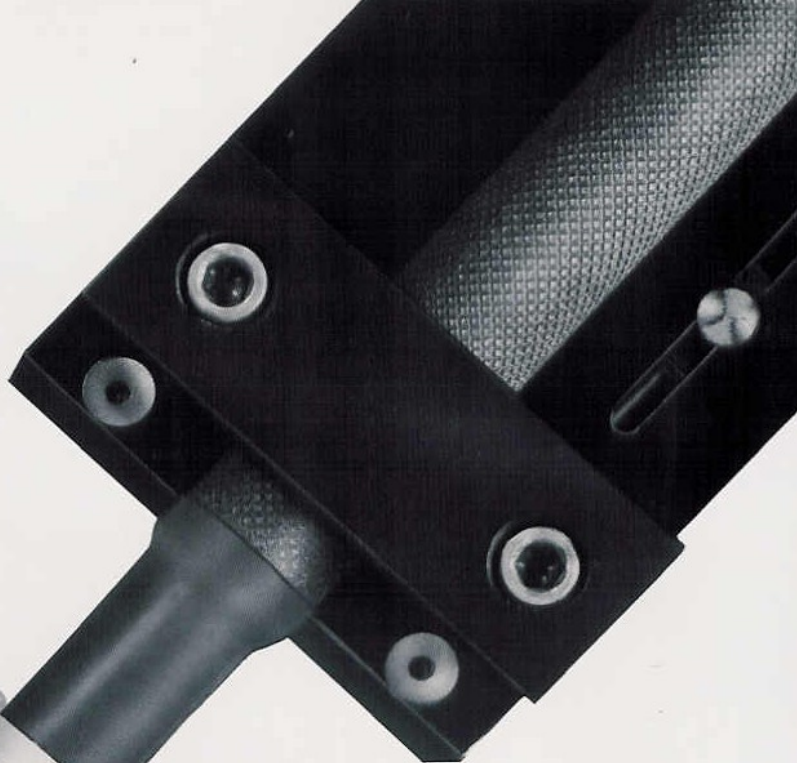
### ADVANTAGES

- Automatic compensation for electrode erosion from part to part.
- Higher welding speeds from your existing equipment.
- Consistent quality, weld after weld.
- Minimized setup time.
- Lower operator skill requirements.
- Facilitates part load and unload operations by automatically moving the welding torch away from the weld nest area.
- Eliminates electrode grinding in many cases.

### SPECIFICATIONS

#### INPUT POWER

Voltage:	117 VAC + 10%
Current:	Less than 1/2 ampere
Frequency:	56/60 Hz., 1 phase
Circuit Breaker:	2 1/2 ampere



Height:	7 inches
Width:	11 inches
Depth:	13 1/2 inches

#### PHYSICAL DATA-CONTROL ENCLOSURE

Height:	12 inches
Width:	2 3/4 inches
Depth:	3 1/2 inches
Slide Travel:	3 inches
Speed:	15 IPM
Weight:	7 pounds
Torch Diameter Mounting:	3/4" to 1 1/8"
Load Capacity:	15 pounds
Motor:	D.C. Stepper Motor
Step Increment:	0.0005 inch/step

#### PHYSICAL DATA-MECHANICAL SLIDE

Power On/Off:	Rocker Circuit Breaker
Jog Up/Down:	Pushbuttons
Torch Gap:	Thumbwheel switch settable 01 to 99 thousandths
Start:	Pushbutton
Stop:	Pushbutton
Up Limit:	Adjustable Limit Switch
Test:	Pushbutton

#### CONTROLS

#### INDICATORS

Power On/Off:	Red L.E.D.
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WELDLOGIC Automated Welding Systems

