

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.

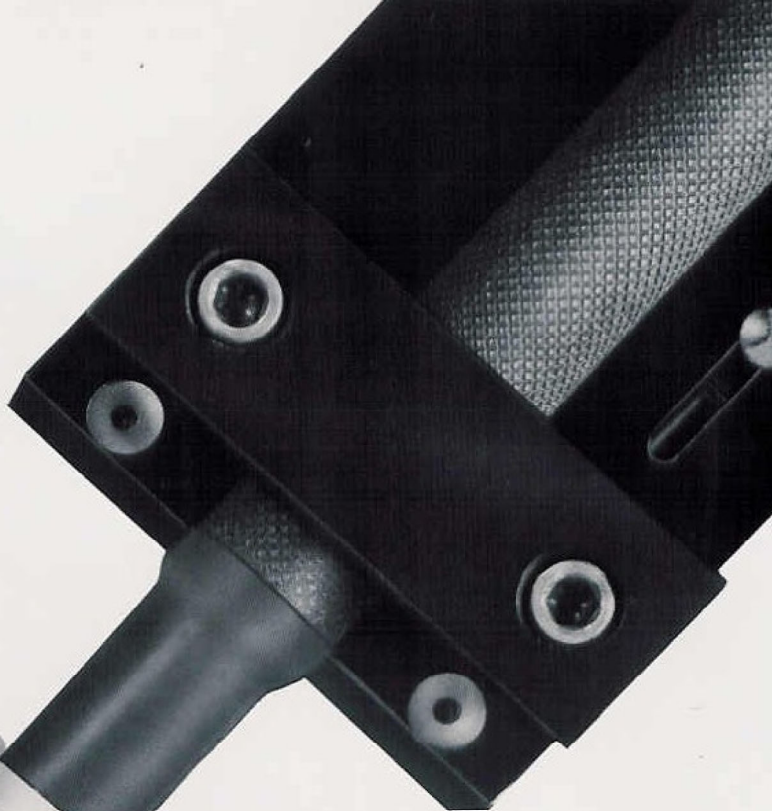
ADVANTAGES

- 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:
Width:
Depth:

PHYSICAL DATA-CONTROL ENCLOSURE

7 inches
11 inches
13 1/2 inches

Height:
Width:
Depth:
Slide Travel:
Speed:
Weight:
Torch Diameter Mounting:
Load Capacity:
Motor:
Step Increment:

PHYSICAL DATA-MECHANICAL SLIDE

12 inches
2 3/4 inches
3 1/2 inches
3 inches
15 IPM
7 pounds
3/4" to 1 1/8"
15 pounds
D.C. Stepper Motor
0.0005 inch/step

Power On/Off:
Jog Up/Down:
Torch Gap:
Start:
Stop:
Up Limit:
Test:

Thumbwheel switch settable 01 to 99 thousandths.

CONTROLS

Rocker Circuit Breaker
Pushbuttons
Pushbutton
Pushbutton
Adjustable Limit Switch
Pushbutton

Power On/Off:

INDICATORS

Red L.E.D.

WELDLOGIC Automated Welding Systems

