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MAGA 1 UNIVERSAL WELD CONTROL

The MAGA 1 offers multiple options to meet the needs of fixed automation arc welding applications. Designed for control of GTAW, SAW, GMAW, and PAW processes.

When applied to GTAW you get one, single control panel for the power source, the wire feeder, the travel carriage, and the arc height or voltage. Multiple control boxes for the operator to engage and dial in are eliminated.

The MAGA 1 has a 256 x 64 pixel LCD graphics display/ keypad arrangement on the front panel for easy access by the operator. The internal memory capacity offers 32 user selectable weld schedules. Access by the operator to specific parameters can be isolated during initial set up via a laptop computer interface.



The MAGA 1 embedded micro controller has 3 each 0-10 VDC programable outputs, 7 each solid state isolated relay outputs, and 6 each 24VDC optically isolated inputs. The unit also contains a MAGA 1 PLC with 250 lines of programable logic control. This allows sequencing of the fingers via air logic as well as a mandrel safety circuit.

Controller modules located on the peripheral to handle various motor control functions. Two choices of motor drivers for either a 24VDC or 90VDC motors available. The Micro step controller is dedicated to arc height control.



A typical longitudinal seam welder application using GTAW would use two of the 24 VDC motor controllers- one for the carriage and the other for the captison drive wire feeder.

These devices deliver accurate encoder feedback for speed control.

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