



AWS-210/400/800

Programmable DC and AC/DC TIG and PLASMA Welding Systems

The **AWS-210-400-800 Advanced Welding Systems** are microprocessor-based programmable power supplies designed and built to provide a highest quality, accurate and repeatable welds. These systems are available in **210, 400 or 800** ampere configurations in either DC or AC/DC configurations for welding aluminum alloys. The system also controls positioner **Travel Motion, Torch Arc Distance Control** and **Wire Feed** servos providing a totally integrated system.

The **AWS-system** is a highly refined, field-proven product used throughout the world for critical welding applications. The controls and hardware are the end result of 40+ years of designing and manufacturing precision automated computer controlled welding systems.



AWS 210



AWS 400



AWS 800



Remote Operator Pendant

Full function HMI touchscreen pendant puts all system controls at the operator's fingertips.

- Close Loop Servo Control of Weld Current, Travel Speed, Arc Distance Control & Wire Feed.
- External memory, via flash drive, stores unlimited multi-level weld schedules.
- Synchronized Current, Voltage, Travel and Wire Feed.
- Torch and back up gas flow meters with gas fault sensors.
- Password protected Operator/Engineering modes.
- Programmable operators overrides 0-100%. Minimal operator skill required.
- Detects and indicated faults, i.e., Gas Flow, Voltage, Current and Travel Limits.
- Operator friendly remote control & weld program selector. Isolated I/O inputs & outputs, Standard I/O outputs to PLC and additional devices, ie.
- Data Acquisition, Safety Switches, Auto Feeder, etc. up to 4 channels.



THE ULTIMATE PRODUCTION SYSTEM

Select Your Options

R.P.W. REMOTE PENDANT

This remote operators pendant provides Overrides, jogs, start, stop, purge, and weld/set-up. The pendant allows the operator to access any of the weld schedules resident in the welder. Additionally displays real time feed back of weld time, voltage, current and wire.



A.D.C. - ARC DISTANCE CONTROL WITH 3" OR 6" RAMS

Weldlogic A.D.C. option is a dual function automatic torch positioner. The A.D.C. can be programmed to provide a fixed tungsten to work distance in .001 increments and also provides continuous arc distance control during the duration of the weld. The A.D.C. ram is available in a 3" & 6" stroke.



TRAVEL RATE POSITION-BASED SERVO

Weldlogic's position-based drive feature is a closed loop A.C. precision servo for highly accurate positional control. A wide range of A.C. motors are available to accommodate your specific rotary or linear requirements. Our T.R.S. has I/O for limit switches and a return to home sensor. Custom motors available upon request.



C.W.F. COLD WIRE FEED

Weldlogic C.W.F. option is a closed loop A.C. precision servo drive for high accuracy feed rates of 0.1 to 100.0 inches per minute. A 4-drive roll mechanism provides positive production-worthy feeder for wire diameter .020 to .093. The torch mounted 3-axis manipulator places the wire in the optimum position in the weld puddle. Programable wire feed advance/retract allows for dabber type wire feeding.

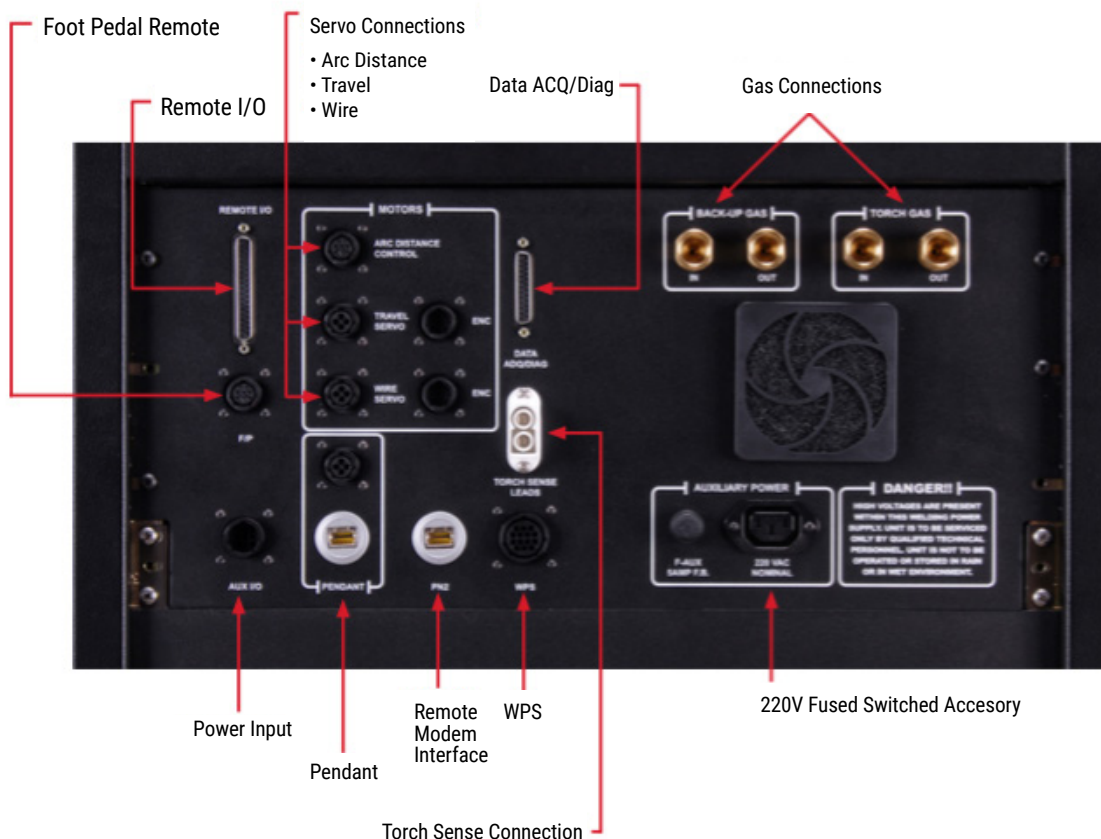




AWS REAR PANEL

The rear panel provides easy access to all interconnects.

Clean cable runs and none of the external servo boxes we're so used to seeing in this industry.





A POWERFUL DEVELOPMENT TOOL

EASY TRANSFER OF WELD DATA

Program CSV file transfer via thumbdrive for offline storage and editing to PC computer.

- Easy menu driven software prompts you in plain English, SAE and Metric
- See the entire program on one screen. No single line displays to scroll through
- Print, review & edit your weld schedules at your desk
- Password protection of your weld schedules



SETUP SCREENS





AWS-210-400-800 TYPICAL APPLICATIONS

SEAM WELDING



CIRCUMFERENTIAL WELDING



CUSTOM WELD SYSTEMS

