

AWS-200, 350, 700

Computer Controlled TIG/PLASMA Welding System

"Fully Integrated" for Automated Welding

The **AWS-200-350-700 Advanced Welding System** is a microprocessor-based system designed and built to provide a high quality, economically priced, very accurate and repeatable total welding system. This totally integrated system combines either a 200-350-700 Ampere precision D.C. power supply, Travel Rate Servo, Arc Distance Control and Wire Feed servo all in one rugged modular enclosure.

The AWS-200-350-700 is a highly refined field proven product. Its software base and hardware are the end result of 30+ years of designing and manufacturing precision automated computer controlled welding systems.



AWS 200



AWS 350

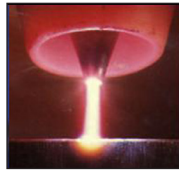


AWS 700

Dual Process



Tig



Plasma



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.



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.

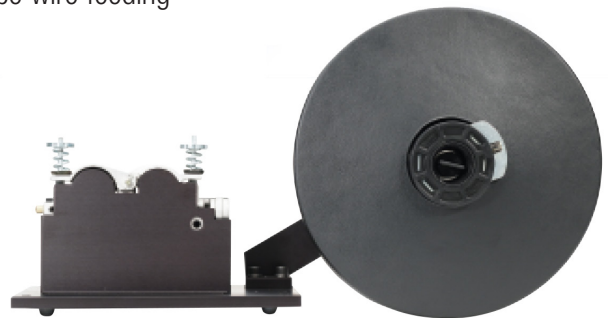
A.D.C. - ARC DISTANCE CONTROL WITH 3" OR 6" RAMS

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.



C.W.F. COLD WIRE FEED

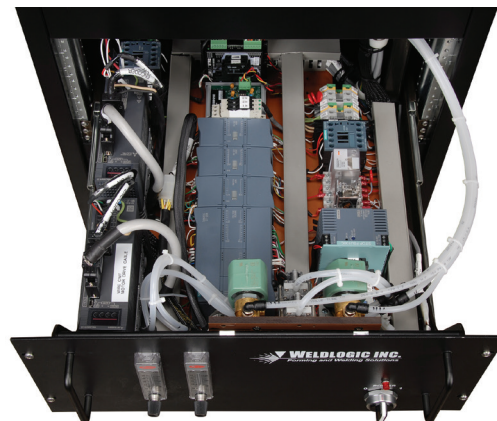
Weldlogic C.W.F. option is a closed loop A.C. precision servo drive for high accuracy feed rates of 0.1 to 100.0 inches per minute. A 4-drive roll mechanism provides positive production-worthy feeder for wire diameter .020 to .093. The torch mounted 3-axis manipulator places the wire in the optimum position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



EASY ACCESS SERVICE DRAWER

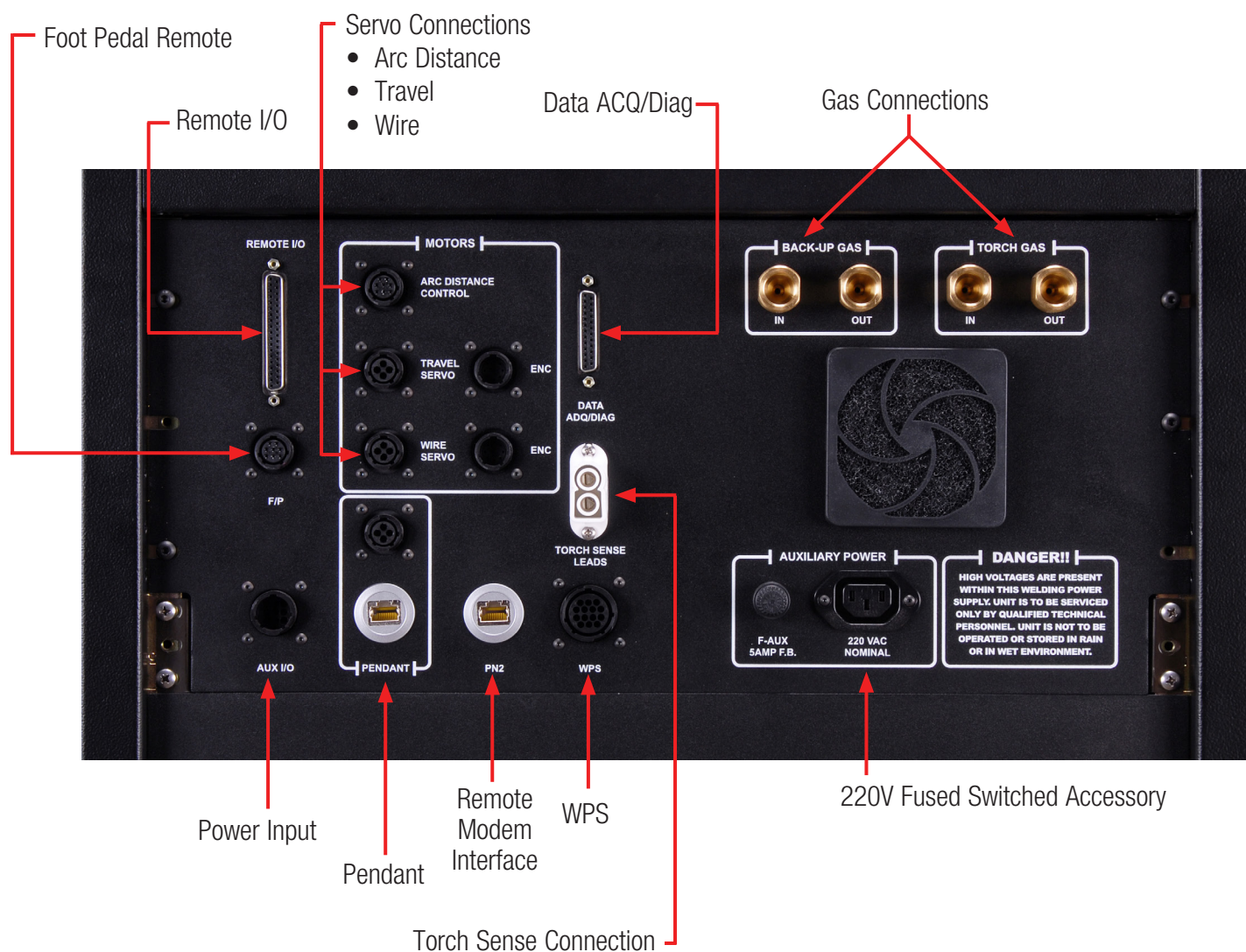
Front access drawer enables user to serviceability and component replacement.

- Modular design
- Remote modem access for upgrades, modifications and support
- State-of-the-art technology



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.

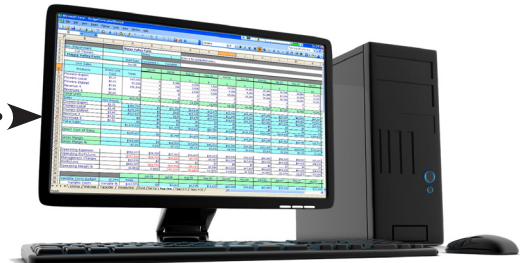


A POWERFUL DEVELOPMENT TOOL

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

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Axis Pos	32.65	Level One	Level Two	Level Three	Level Four	Level Five
Pk Current (Amps)	200.00	189.00	156.95	147.20	135.00	
Bg Current (Amps)	75.00	65.00	59.00	52.00	40.00	
ADC Mode (On/Off)	ON	OFF	OFF	OFF	OFF	
ADC Peak Yrds	12.0	11.6	11.2	10.7	10.1	
Pulse Freq (PPS)	12.5	12.5	12.5	12.5	12.5	
Pk Pulse Width (%)	35.00	35.00	35.00	35.00	35.00	
Weld Spd (M/Min)	+0.500	+0.473	+0.452	+0.441	+0.438	
Wire Mode (On/Off)	OFF	OFF	OFF	OFF	OFF	
Pk Wire Spd (M/Min)	+0.960	+0.986	+0.921	+0.853	+0.789	
Bg Wire Spd (M/Min)	+0.590	+0.550	+0.521	+0.452	+0.419	
Level End Pos (mm)	+552.00	+526.00	+523.50	+463.90	+442.80	

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Wire Start Delay	+0.2	seconds	Pulse Freq (PPS)	12.5		
Wire Retract Distance	25.00	mm	Pk Pulse Width (%)	35.00		
Wire Jog Speed	2.540	M/Min	Pk Wire Spd (M/Min)	+0.960		
			Bg Wire Spd (M/Min)	+0.590		
Jog Off Reverse			Jog Off Forward			

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
PLS - Stop Mode (On/Off)	OFF	PLS Axis Position (mm)	+32.65			
PLS - Start Delay Time	+0.1	Start Point Distance (mm)	+45.0			
PLS - Jog Speed (M/Min)	+2.500	Start Point Speed (M/Min)	+1.000			
Limit Status		Jog Reverse	Jog Forward			

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Torch Pre-Purge Time	+2.0	Secs	GAS Sensor Status			
Torch Post-Purge Time	+3.0	Secs				
Backup Pre-Purge Time	+2.0	Secs	EGAS Enable	ON		
Backup Post-Purge Time	+3.0	Secs	Backup			
Manual Purge Status	GAS OFF					

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Uplope Time	+0.0	Secs				
Downslope Time	+0.0	Secs				
Start Current	+50	Amps				
Finish Current	+5	Amps				

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Travel Position (mm)	32.65	Level				
Current	-26.5					
Voltage	-2.7					
Travel Spd (M/Min)	0.05					
Wire Spd (M/Min)	2.54					
Limit Status						

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Start Gap	+0.526	mm				
ADC Unlock Delay Time	+0.1	seconds				
ADC Retract Distance	+1.270	mm				
ADC Speed	3.000	mm/sec				
ADC Override Limit	+5	percent				
ADC Gap Test						
ADC Axis Position	1.364	mm				

Files	Gas	Current	ADC/EG4	Travel	Wire	Levels
Current Feed back Scale %	51.9	WPS (Welding Power Supply)				
Voltage Feed back Scale %	+103	WPS Monitor (PS)				
Peak Current Scale %	+54.90	Current	-26.4	Voltage	-2.7	
Backgr Current Scale %	+54.90	Travel Position (mm)	34.00	Travel Spd (M/Min)	0.050	
PID In-accuracy %	+3					
PWL / UPS Select	UPS Selected					
Home Sensor Enable						
UPS EOTs N.O. / N.C.	EOTs N.O.					
Wire Feeder Installed						
Diagnostic Mode						

AWS-200-350-700 TYPICAL APPLICATIONS



Seam Welding



Circumferential Welding



Custom Weld Systems