

## PIPEMASTER POWER SOURCE Model 515

Power Source/Controller for "Full Function" weld heads



### *Revolutionary, Not Evolutionary*

The latest generation of Pipemaster power sources is the result of a new direction in power source design. The Model 515 brings the benefits of digital technology to the orbital welding customer: unparalleled accuracy, repeatability, and reliability. The new model is half the size and weight of previous models. Digital technology forever eliminates the need for periodic weld Head calibration - motor speeds and response characteristics remain accurate and stable regardless of wear, and weld Heads can be interchanged without time-consuming calibration.

Software upgrades can be sent as e-mail attachments and loaded using a standard USB portable flash drive "memory key" (provided). The Model 515 is "internet ready" for future enhancements such as a web-based diagnostic service.

Two autoranging versions are available: a lighter weight 115/230 VAC input model, or with a wider 115/480 VAC input range, to operate on any input voltage worldwide. Both operate on 1 or 3 phase, 50/60 Hz.

### **Features:**

- Multi-pass welding of pipes/tubes
- Full function capability (torch rotation, filler wire feed, electronic arc gap control, electronic oscillation)
- 200 Amp Output
- Autoranging input eliminates all internal modifications
- Up to 100 levels per program (time-based programs)
- Stores 100 weld programs internally
- AutoProgram automatically generates procedures
- Programming and operation guided by simple prompts
- Teach mode allows rapid program development
- Programmable "override limits" provide supervisory control
- Weld parameter monitoring/out-of-limits reporting for QA/QC purpose
- Transfer programs and QC data to PC using USB flash drive "Memory Key"
- AutoTack automatically generates tack weld programs
- Large color LCD display
- Stainless steel case
- Help Files provide immediate information/assistance
- Password protection of key functions
- Waterproof Remote Pendant (25"/8m cable)
- Auto rewind feature unwraps cable at weld completion
- All weld Head functions capable of synchronization with pulsed current output
- Selectable Position or Time-based programming
- Integral switch prevents welding without torch gas glow
- Integral printer
- Detachable coolant recirculator with integral flow switch protection
- Meets NEMA, CE, CSA standards

**Options:**

- Cart with bottle rack
- Extension cables
- Rugged storage/shipping case
- Lighter weight 115/230 VAC version

**Remote Pendant:**

This handheld control is used to both program and remotely operate the power source. Designed to withstand hard use, the pendant incorporates a completely sealed, waterproof silicone rubber panel keypad, impervious to grinding debris and weld spatter. The color LCD display is protected by a tempered glass shield.

The intuitive switch layout allows the welder to make program override corrections without lifting his hood.

**Coolant Recirculator :**

Detachable coolant recirculator mounts beneath power source with integral flow switch protection

**Teach Mode:**

Teach Mode speeds program development. Approximately parameter values are entered or copied from an existing program.

**Programmable Overrides Provide Supervisory Control:**

The welder may override programmed parameters but only within preset limits. Password protected override limits are set for each parameter (0-100% of programmed value).

**Simplified Programming:**

Specifying the weld Head to be used from a "dropdown" menu automatically selects the preferred programming mode - position or time. Time-based programming is generally preferred for weld Heads making simple fusion welds. Multipass pipe weld Heads are operated using position-based programming, eliminating calculations to determine when parameter changes must be made. A sensor in the weld Head provides position information. All welding parameters may be changed at each level.

**Weld Monitoring/QC:**

Additional documentation and notes can be added to weld programs and QC records, providing traceability to individual drawings, projects, and customers.

**AutoProgram:**

<b>POWER SOURCE/CONTROLLER SPECIFICATIONS</b>		
<b>Application</b>	For use with many weld Head models (GTAW process), Welding Lathes and dedicated Weld Systems	
<b>Function Controlled</b>	<ul style="list-style-type: none"> <li>• Welding Current Output/Current Pulsing</li> <li>• Weld Head Rotation</li> <li>• Weld Head Wire Feed Speed</li> <li>• Electronic Arc Voltage Control</li> <li>• Electronic Torch Oscillation</li> <li>• Electronic Torch Cross-Seam Adjustment</li> </ul>	
<b>Output Power</b>	0 - 200 Amps	
<b>Input Power Requirements (Rated Load)</b>	115/480 VAC, 1 or 3 phase, 4.0 KVA, 50/60 Hz Autoranging (No modifications necessary)	
<b>Internal Memory Capability</b>	100 Weld Programs	
<b>Units of Measurements</b>	Metric and Inch (selectable)	
<b>Program Transfer</b>	Solid State Digital Media (USB Flash Drive/Memory Key)	
<b>Language (Selection)</b>	English, Spanish, German, French, others	
<b>Settable Override Limits</b>	Individually scalable overrides on each function 0-100%	
<b>Maximum Open Circuit Voltage</b>	80V	
<b>Water and Gas Flow Switches</b>	Standard. Prevent damage to equipment and work piece.	
<b>Data Recording/Printout</b>	Welder ID, Weld Number, Material, OD, Wall Thickness, Date, Time, Program Number, Weld Head Model, Project, Drawing, Programmed Parameters, User Notes	
<b>QC-Parameter Monitoring / Recording / Printout</b>	Records actual parameters and deviations from preprogrammed limits	
<b>Arc Start Type</b>	High Voltage Impluse	
<b>Operating / Storage Temperature</b>	Operating: -18 to 50°C (0 to 120°F) Storage: -25 to 60°C (-20 to 140°F)	
<b>Humidity</b>	To 98% RH (Non-Condensing)	
<b>Dimensions &amp; Weights</b>		
	<b>Model 515 Power Source</b>	<b>Model 905 Water Cooler</b>
<b>Length</b>	48cm (19")	48cm (19")
<b>Width</b>	35cm (14")	35cm (14")
<b>Height</b>	43cm (17")	27cm (11")
<b>Weight</b>	41 Kgs (91 lbs)	15 Kgs (34 lbs)
<b>Weight</b>	35 Kgs (77 lbs)*	15 Kgs (34 lbs)
*115/230 VAC Input Model		
<b>Use With</b>	Quickclamp Weld Head 432 & 433 and D-Head Model 420	



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