PIPEMASTER 516



PROGRAMMABLE CONTROLLER FOR ORBITAL WELD HEADS

The latest generation of Pipemaster controllers are the result of a new direction in power source design. The Pipemaster 516 brings the benefits of digital technology to the orbital welding customer: unparalleled accuracy, repeatability, and reliability. 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.

- Unique auto-programming for multi-pass welding
- Easy to program
- Rugged design

Industrial Solutions & Innovation, LLC 4425 Mustang Road, Alvin, TX 77511 www.industrialsolutions-Ilc.com



PIPEMASTER 516

FEATURES

- Multi-pass welding of pipes/tubes/tubesheets
- Full function capability (torch rotation, filler wire feed, electronic arc gap control, electronic oscillation)
- Operates all models of Magnatech weld heads (GTAW process)
- Current programming and pulsing controlled by Pipemaster controller – not the power supply
- Amperage output determined by power source selection
- Autoranging power 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 purposes
- Transfer programs and QC data to PC using standard USB flash drive
- AutoTack automatically generates tack weld programs
- Large color LCD pendant display
- Stainless steel case
- Help files provide immediate information/assistance
- Password protection of key functions
- Waterproof pendant with 7.6 m (25') 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 flow
- Bluetooth printer option

SPECIFICATIONS

Application

Output power

(rated load) Protection level Internal memory capa

Functions controlled

Input power requirem

	For use with all Magnatech weld head models (GTAW process), welding lathes, and dedicated weld systems
	Weld current output/current pulsing, weld head rotation, weld head wire feed speed, electronic arc voltage
	control, electronic torch oscillation, electronic torch cross-seam adjustment
	Power source dependent
nents	110 – 230 VAC, 1 Ø, 4.0 KVA, 50/60 Hz autoranging (no modifications necessary)
	Controller IP-23; pendant IP-65
pacity	100 weld programs

Units of measurement Metric and inch (selectable) Program transfer Solid state digital media (USB flash drive) English, Spanish, German, French, others Language selection Individually scalable overrides on each function 0 – 100% Settable override limits Standard. Prevent damage to equipment and workpiece Water and gas flow switches Data recording/printout Operator ID, weld ID number, program number, material, OD, wall thickness, date, time, weld head model, project, drawing, programmed parameters Freestanding. Bluetooth. Integral rechargeable battery with charger. IP-54 rating Printer (optional) QC-parameter monitoring/ Records actual parameters and deviations from preprogrammed limits recording/printout High voltage impulse Arc start type

High voltage impulse Operating: -18 to 50° C (0 to 120° F) Storage: -25 to 60° C (-20 to 140° F) To 98% RH (non-condensing)



Operating/storage temperature

Humidity

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