FCS FABRICATION WELDING SYSTEM

Digital Welding System which is specifically built for Piping, Tank and/or flat weld.

The System is composed with:

- PipePro® 400XC-CE Power Source
- Control Box
- Welding Bug FCS
- Spool Holder, complete with push wire feeder stepper motor and Electronic board for FCS control
- 1 Monitor to visualize and change the welding parameters during the weld.

WELDING SYSTEM

FCS

Qapqa

ALWAYS MOVING FORWARD

GENERAL FEATURES

- Remote connection from PWT headquarter to update the software, download the log, etc.
- Welding processes: MIG, PULSE and RMD (for root pass without backing support), Flux Cored (FCAW), Stick (SMAW)
- On board display to show and modify key parameters (Travel Speed, Wire Speed, Oscillation width and Frequency).
- Easy parameters programming with a standard Windows notebook and dedicated PWT software.
- Wireless data transfer for welding parameters and data logging
- Interpolation of welding parameters between two sectors
- Up to 30 welding passes programmable
- Up to 20 welding sectors programmable
- Smart software allows different welding processes for the same joint
- Auto setting and centering of all stepper motors
- SMART START for the welding torch
- Seam Tracking
- Easy voltage and current sensors calibration
- Auto Control Tip Work Distance maintains the torch at a constant distance to the pipe
- Actual Heat Input shown on the welding panel
- Complete welding parameters logging with the “PWT data log software” (.xls or .pdf)
- Burn Through prevention
- Temperature probe (Optional)

COMPLETE WELDING DATA LOG

The integrated datalogger records following:

- Number of Welding Pass
- Number of Joint (input from operator)
- Welding Bug Position (Deg.)
- Volt
- Oscillation Amplitude (mm)
- Oscillation Frequency (Hz)
- Modification at Stick Out
- Arc Control
- Manual Left
- Limit Stick Out
- Burn trough Prevention Intervention
- Temperature Probe (if installed)
- Date and hour
- Travel Speed (cm/min)
- Wire feeder Speed (m/min)
- Amp
- Modification at Oscillation Amplitude
- Stick Out (Amp)
- Heat Imput (KJ/mm)
- Arc Length
- Manual Right
- Limit Oscillation

All the above data can be exported in excel format and analysed through “LogView” software, that includes different diagrams and filters to fine tune the log analysis.

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