

Multi-Wire SAW Applications



Product Line Overview

SYSTEM CONTROL UPGRADE

For complete system control, AMET provides SX or XM system control packages, giving the operator control over the complete system, including the welding parameters on the power supply.



Narrow Gap Tandem SAW Weld Head

Narrow Groove thick section SAW welding is necessary for certain Vessel, Boiler, manufacturing processes. AMET has designed an automated Narrow Groove Tandem SAW Weld Head. Designed for a maximum welding capacity on a groove depth of 350mm. Integral to the process, is a precision tilting drive unit for both lead and trail wire that allows for the programmable, or joystick positioning, of each wire to either sidewall.



Specifications:

- Composite torch body for lead and trail torches.
- Maximum Groove Depth – 380mm.
- Head Width 13mm.
- Individual Precision Tandem Torch Tilting.
 - Servo Motor Control with Precision gearbox.
 - Adjustable range – 3 Degrees Inclusive.
- Precision X-Z weld head motion controls.
 - Horizontal stroke – 2000mm.
 - Vertical stroke – 500mm.
 - Precision Servo Controls for automated standoff, and seam tracking controls.
- 2-axis Wire Straighteners.
- Flux Delivery nozzle, hopper, and mounting.
- Flux recovery nozzle assembly.
- Angle setting device for adjustable cross-seam tilt of entire weld head. Adjustable range 3 degrees inclusive.
- Wire Distance setting – adjusting range 30mm.
- Tandem torch aligning device, controls weld head Roll and Yaw.
- Tandem 25Kg Wire Spool Mounting and Conduit.
- Tandem Wire Feeders and adjustable mounting.
- Adjustable Camera mounting arm.
- META Laser Sensor adjustable mounting arm for standoff control and cross seam tracking.



NGT - Narrow Gap System

Tandem SAW Wind Tower Welding Systems

AMET offers turn-key Multiple-Head, multiple-wire SAW and GMAW welding packages specifically for Wind Tower Assembly. Capable of Tandem SAW Welding on two circumferential weld joints simultaneously. Available standard options for optimizing weld packages to users grow lines, and other assembly processes.

Circumferential, Longitudinal, or dual CIRC/LONG welding packages offered.



Available Packages:

- Column and Boom Manipulators, in any combination of size from 2M to 7M. i.e. 6M X 4M
 - Standard, Heavy, Extra Heavy, and Super Heavy – Duty options.
 - Travel Cart, manual or servo motor controlled suitable for welding travel axis.
 - Manual or motor controlled rotary mast base.
- Turning Roll and Fit-up packages from 2.5 to 150 Tons.
 - Standard Turning Rolls – TRS series.
 - Adjustable Centerline – TRC series.
 - Self Aligning – TRA series.
 - Automatic Aligning – TRZ series.
 - Fit-Up Rollers – (Hydraulic) TRF series
 - Transverse Carts – 5 to 150 Tons.
- Tandem SAW Weld Head(s).
 - Opposed Lincoln Power Feeder 10R's, adjustable.
 - Servo Motor Controlled X, and Z precision linear slides for standoff and cross-seam control.
 - Flux delivery and recovery integration.
 - Integrated Laser Sensor for Automated Stand-off and cross-seam tracking.
 - Camera systems for remote viewing.

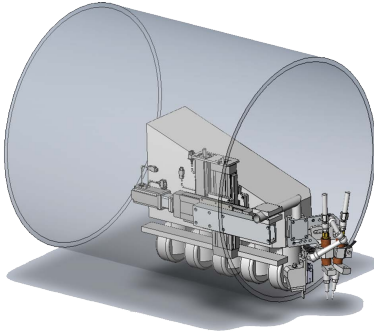
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AMET

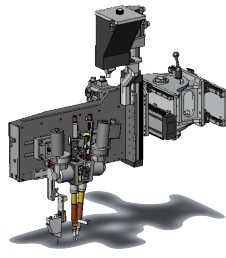
Product Line Overview

Continuous Linear and Spiral Pipe Mill Weld Controls

AMET designs, manufactures, and installs welding packages for Spiral Pipe Continuous Mills. We provide turn-key solutions for Tandem SAW Weld Packages, specifically designed for internal and external continuous spiral mill welding.



Internal Weld Head



External Weld Head

Features:

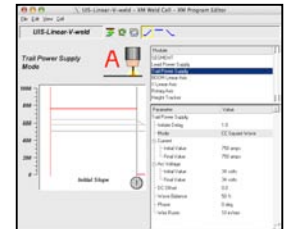
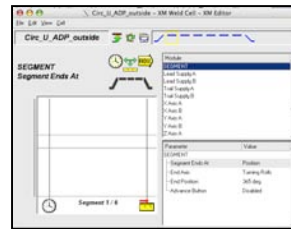
- Internal and External Weld Head Designs.
- Standard Tandem Design.
- Precision Servo Controls for Torch X, Z axis.
- META Laser Sensor.
 - Seam Tracking with Torch X-axis.
 - Standoff Control with Torch Z axis. (CTWD)
- Integrated Camera Systems for remote visibility.
- Direct integration with Lincoln ArcLink PowerWave AC/DC 1000.
- Integration to Pipe Mill PLC Controls.



Multiple Wire SAW Applications

Advanced Automation requirements, Integrated Laser Controls, and the ability to control multiple wire's, multiple arc's, and multiple weld heads, are specialties of our XM Control Welding Packages.

Our XM Controller communicates directly with Lincoln PowerWave AC/DC 1000, or any Lincoln ArcLink Power Supply.



AMET provides the most integrated, user-friendly programming of PowerWave AC/DC 1000 SAW Supplies.

Users can program up to 5 wires per weld head, all from one central weld program. Integration includes the programming of all weld parameters, and their applicable attributes, and data acquisition and tolerance checking.

