

PANDJIRIS®
#1 in Fixed Welding Automation



Manufactured in U.S.A.

PIPP PARTNERS IN
PROFITS &
PROGRESS

PRODUCT BULLETIN FOR LINCOLN ELECTRIC PARTNERS

SEPTEMBER 2015

PANDJIRIS/LINCOLN ELECTRIC TEAMWORK
SINGLE SOURCE AUTOMATION SOLUTION
ASME JOB SHOP MANIPULATOR SYSTEM

The Pandjiris/Lincoln Electric® team dedicates itself to building partnerships with its customers in the welding industry by providing quality automation solutions; solutions designed to lower the customer's manufacturing costs. Recently this teamwork produced another success story combining the latest welding technology and state-of-the-art hard automation equipment into another value-added turnkey solution.

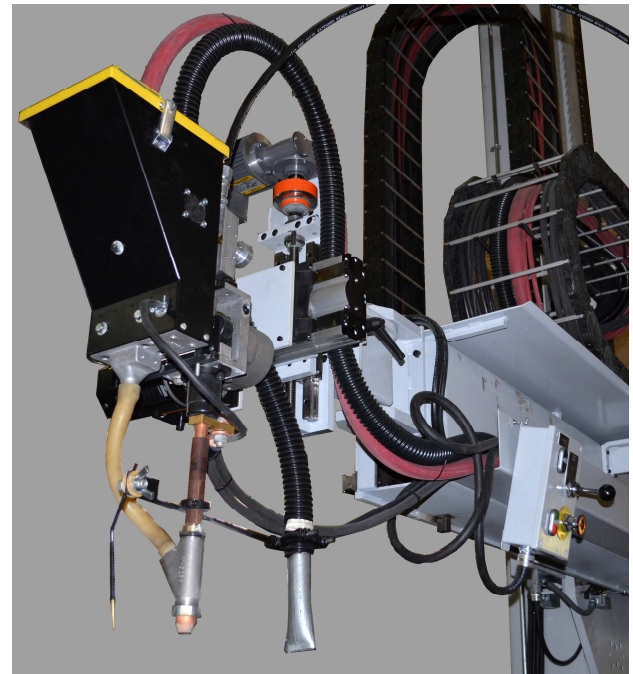
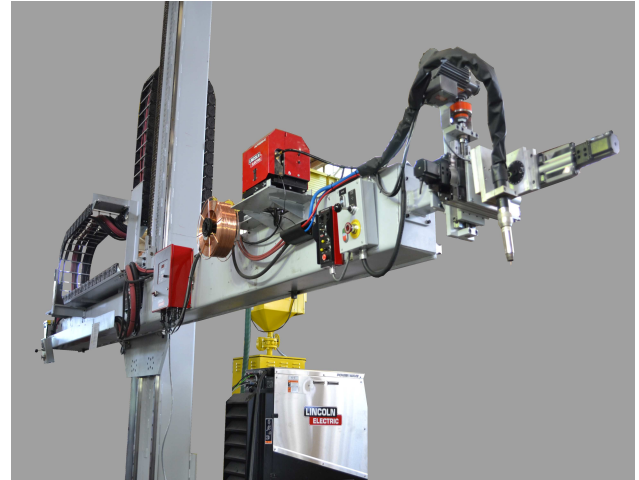
A leading manufacturer was looking for a fully automated system to provide increased productivity and maximum flexibility for welding ASME Code vessels. A Pandjiris 1400 Series Manipulator with Lincoln Electric weld packages at both ends of the welding boom was provided. Lincoln Electric Power Wave® AC/DC 1000® SD Single Wire SAW package was integrated at one end while the Power Wave® S500 Advanced GMAW welder was integrated at the other end.

The SAW head is used for O.D. welding and achieves longitudinal to circumferential welding conversion utilizing a Pandjiris SW-180 Swivel. The GMAW head is capable of welding both circumferential and longitudinal seams in a small I.D. and provides oscillation in either cross seam axis. Both weld heads are equipped with heavy duty impingement swivels to allow performance of fillet welds.

Pandjiris also integrated a Lincoln Electric seam tracker for adaptation to the GMAW Package to complete the totally automated turnkey system.

The fully automated welding head manipulator system with Power Wave® Welding Packages was integrated and the end user's operators and supervisors were trained by Pandjiris both in the operation of the new Lincoln Electric Power Wave® Control Technology and Automated Positioning System.

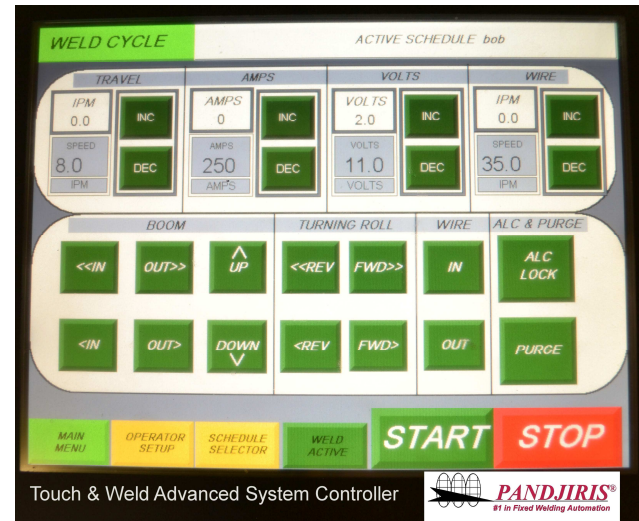
The Lincoln Electric® -Pandjiris Partnership offers the best value-added automation solutions and integrated positioning systems in the world and creates consumable orders for The Lincoln Electric Company.



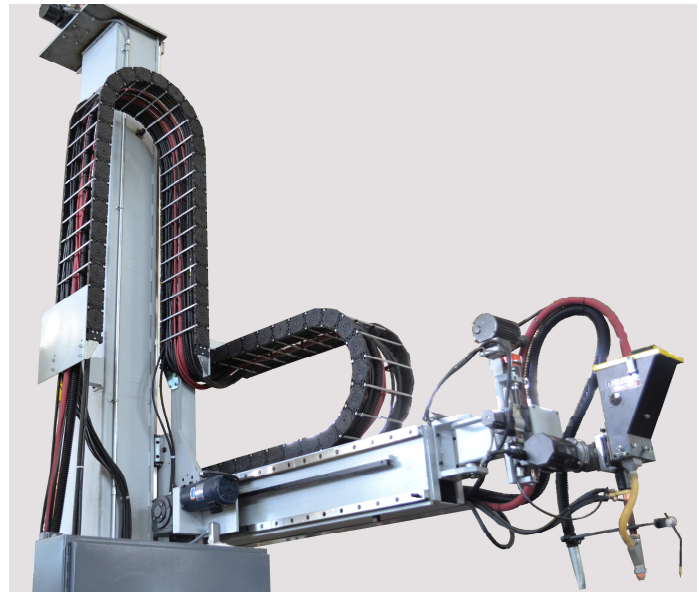
PANDJIRIS® MANIPULATORS & TURNING ROLLS

TOUCH & WELD® ADVANCED SYSTEM CONTROLLER, MANIPULATOR WITH LINEAR BEARINGS AND CONSTANT CENTER TURNING ROLLS

The Touch and Weld® Advanced System Controller provides a central touch screen console for input of all weld parameters for both the SAW and GMAW packages. The controller has essentially unlimited weld schedule storage capability. In addition to welding equipment parameters, oscillation parameters, travel axis, travel speed, etc are stored as part of each weld schedule. All axes of movement are programmed and controlled through the Touch & Weld® Advanced System Controller. Remote operator pendants are provided at each end of the manipulator for ease of operation.



- (1) Touch & Weld® Advanced System Controller
- (1) Series 1400 Manipulator, Size 14 x 14
- (1) Support Platform Mounted to Manipulator Column
- (1) Model 30565 Travel Car
- (1) Model 6LR-P, 6" Stroke Heavy Duty Slide with Joystick Control (Vertical Travel for SAW Head)
- (1) Model SW-180 Swivel or SAW Head
- (1) Mechanical Arc Oscillator for SAW Head
- (1) Lincoln Electric Power Wave® AC/DC 1000® SD Single Wire SAW Package
- (1) Weld Engineering Flux Recovery/Feed Package - Heated
- (1) Lincoln Electric Power Wave® S500 GMAW Package
- (1) Model 4LR-P, 4" Stroke Heavy Duty Slide with Joystick Control
- (2) Mechanical Arc Oscillator for GMAW Head
- (2) Heavy Duty Impingement Swivel (One for Each Weld Head)
- (1) Power Cable Track for Manipulator Column and Boom
- (1) Model PR-50/25 Power Roll, Constant Center, Mounted on Riser
- (1) Model IR-25 Idler Roll, Constant Center, Mounted on Casters



Benefits

- Increased Productivity
- Consistent Quality
- Cost Savings
- Latest Technology and Equipment