

**PANDJIRIS®**  
**#1 in Fixed Welding Automation**



Manufactured in U.S.A.

MARKETING BULLETIN – TEAMWORK AUTOMATION SOLUTIONS

FEBRUARY 2017

PANDJIRIS / MILLER ELECTRIC / PRAXAIR TEAMWORK  
SINGLE SOURCE AUTOMATION SOLUTION  
SUBMERGED ARC WELDING SYSTEM FOR PIPE



Pandjiris has found its niche in the welding industry specializing in heavy fabrication projects. It has developed a wide range of standard equipment and engineering expertise for a variety of applications.

**For Example:**

A worldwide leading manufacturer of critical pipeline sealing and electrical isolation products required an automated submerged arc welding system. The manufacturer has a focus on safety, performance and reliability and employs advanced engineering and manufacturing processes to meet the challenging demands of the oil and gas, water/wastewater, construction and infrastructure industries.

With this in mind, the manufacturer turned to the team of Miller Electric, Praxair Distribution and Pandjiris to meet their stringent requirements for an automated welding system for steel pipe. The basic requirements called for a system to perform external circumferential welds on steel pipe ranging from 10" to 48" in diameter and up to 60" in length. The solution provided included the capability to perform a manual hand-held MIG root pass followed by automated fill and cap passes utilizing the submerged arc process.

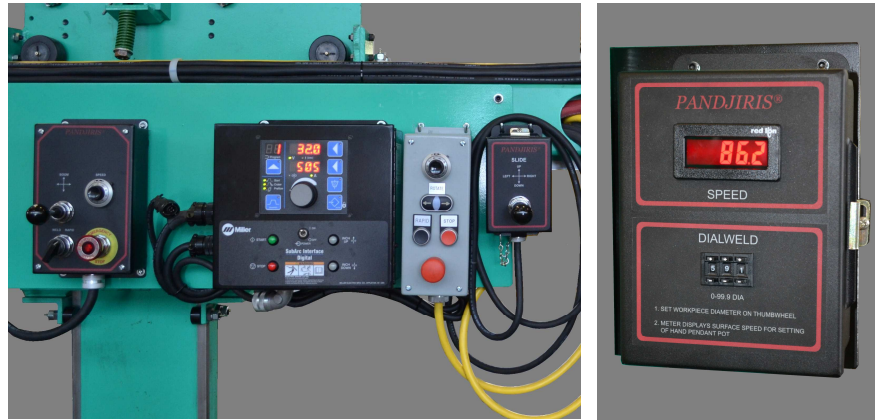
Contact Pandjiris' Application Engineering Department for Automated Positioning Solutions to meet your customers' application requirements.



# PANDJIRIS® FULLY AUTOMATED SYSTEMS

## SYSTEM FEATURES

- Miller Sub Arc DC 1000 Power Source
- Miller SAW Digital Control
- Miller Low Speed RAD-400 Wire Drive
- Miller Hopper with Electric Gate
- Miller Spool and Hub Assembly
- Miller Wire Straightener
- Miller OBT 1200 SAW Torch
- Miller Insight Core Software Module
- Miller Insight Core Adapter
  
- Weld Engineering AP-1 Air Powered Flux Recovery
  
- Pandjiris HS-60-VS Headstock with:
  - 600PT Welding Ground
  - Precision Variable Frequency Drive
  - 20 Turn Speed Potentiometer
  - Digital Dialweld Speed Control
  - Variable Speed Foot Switch
- Pandjiris Model C-48 Quickset Gripper
- Pandjiris Model OS-60 Outboard Support Stand on Casters and Track
- Pandjiris Series Double 8 Manipulator
- Pandjiris Model 61-P, Motorized Cross Slide Assembly, 6" x 6"



With the local support of Praxair Distribution and the superior quality equipment offered by Miller Electric and Pandjiris, this manufacturer has a hard automation system that exceeded their expectations and is providing consistent reliable performance on a daily basis.

Pandjiris offers a complete range of manipulators to meet our customers' needs from the manual 400 series through the 2000 series and beyond. All manipulators are available in custom sizes to ensure they fit the application requirements. Accessories such as travel cars, free standing bases, cross slide assemblies, power cable track, weld package mounting and integration support platforms and weld head swivels are available to complete any manipulator hard automation cell. Manipulators can be used in conjunction with a variety of positioning equipment to complete the total automation package.



Pandjiris manipulators are an extremely versatile tool. Whether used with MIG, TIG, SAW or Plasma, Pandjiris manipulators are a consistent and solid means of bringing the weld head to the work piece. **Linear bearings are used on the Series 1100, 1400, 1600 and 2000 manipulators for improved stability and travel characteristics.**

We look forward to working with you on your hard automation applications.