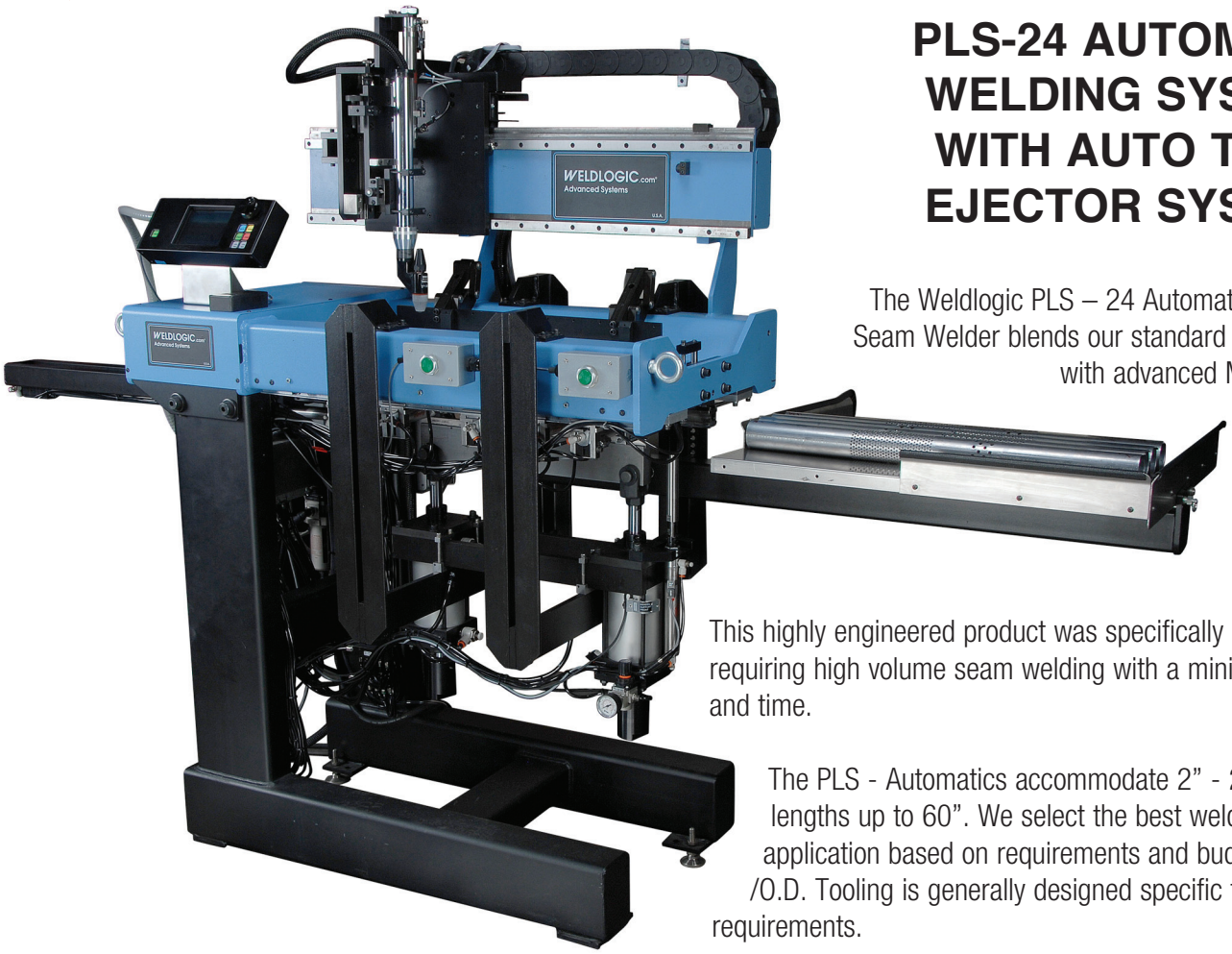
**WELDLOGIC INC.**
*Forming and Welding Solutions*

Welding Solutions for Advanced Manufacturing




# PLS-24 AUTOMATIC WELDING SYSTEM WITH AUTO TUBE EJECTOR SYSTEM

The Weldlogic PLS – 24 Automatic Precision Longitudinal Seam Welder blends our standard P.L.S. products together with advanced Micro Processor Controls and Mechanization.

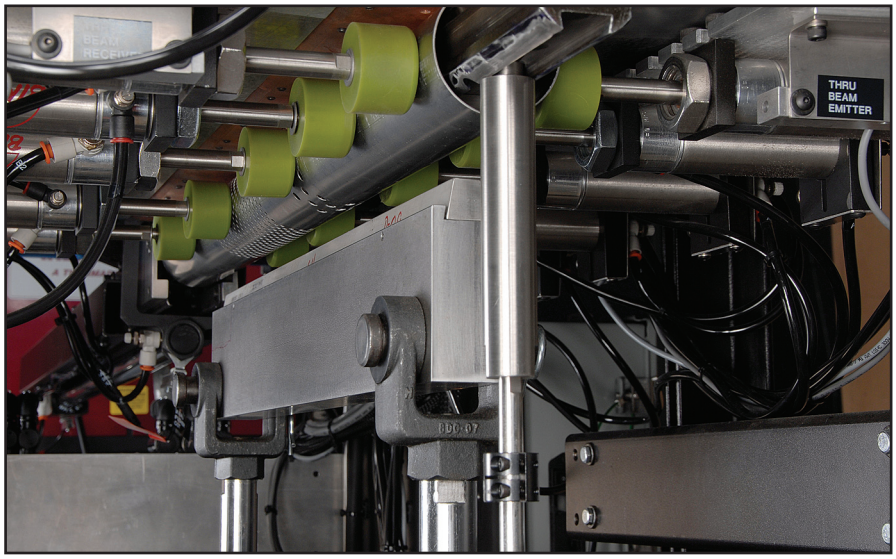
This highly engineered product was specifically designed for companies requiring high volume seam welding with a minimum of operator effort and time.

The PLS - Automatics accommodate 2" - 24" diameters and lengths up to 60". We select the best weld process for the application based on requirements and budget.Tube I.D. /O.D. Tooling is generally designed specific to the application requirements.

Weldlogic's leadership in the field of Manufacturing Precision seam welders make us an ideal partner to engineering a system to meet your specific weld quality and production goals.

## FEATURES

- High Volume Production
- Micro Processor Controlled
- Tig * Plasma * Laser * Mig
- Automatic Material Positioning
- Automatic Welding
- Automatic Tube Ejection
- Minimum Skill Operator
- Quick Return on Investment
- Quick Change Over

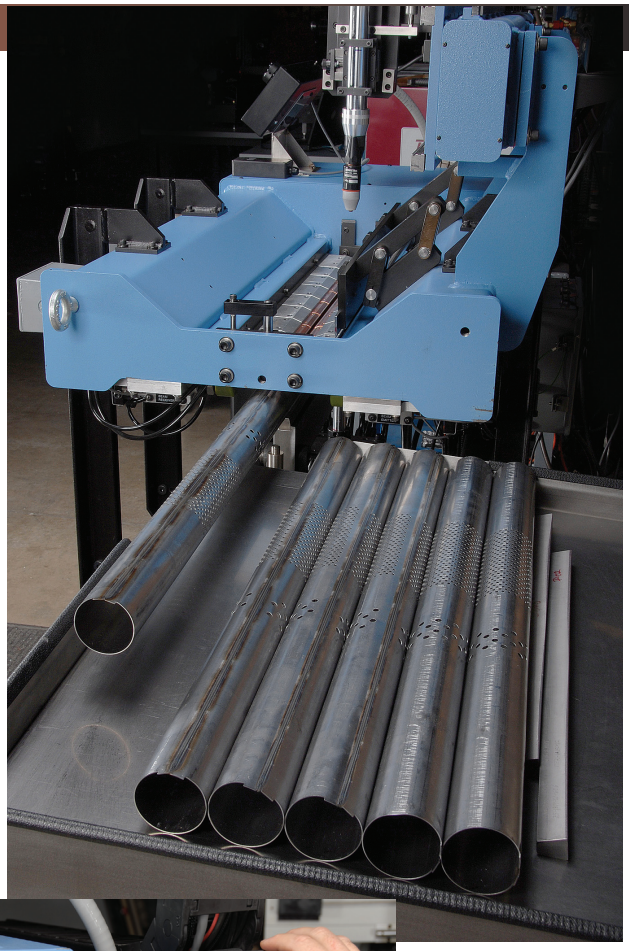



**WELDLOGIC, INC.**

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**www.weldlogic.com**

# Automated Welding System with Auto Tube Ejector System



## BENEFITS OF THE PLS – AUTOMATIC with TUBE EJECTOR

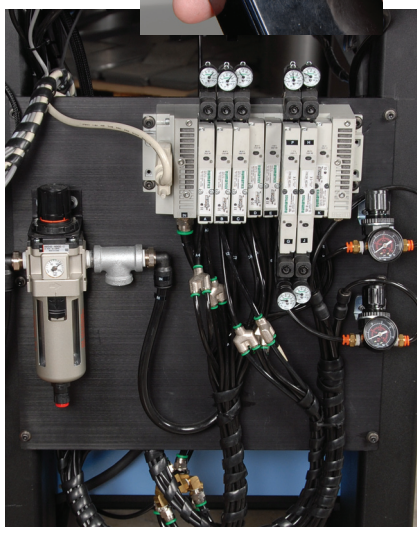
- Low skill level to produce High Volume / High Quality Seam Welds
- Leaves operator free to perform additional tasks in a cell environment. (Tube rolling + post weld processing during weld sequence)
- Weld development plus training provided by Weldlogic when your system is ready for acceptance run-off.
- Quick change over tooling to new diameters, lengths and thicknesses (less than 3 minutes)
- Weldlogic microprocessor controller with 5” screen is easy to use and easy for shop personnel to learn.
- Remote Sequencing Pendant – Manually steps the auto sequence forward / reverse for easy quick set up /adjustment.
- Wide range of Weldlogic manufactured accessories to enhance performance; Arc Distance Control, Wire Feeder, Arc Oscillator, Tube Rollers and End Formers.






**The outstanding productivity of Weldlogic PLS – Automatic is accomplished by a precisely controlled sequence of operations using regulated pneumatics, proximity sensors and a microprocessor controller, all fiber optically isolated for use in an industrial environment.**

## SEQUENCE OF OPERATION



With the aligning blade in the lowered position, the operator slides the tube in (seam up) to the rear end stop and the sensor detects the correct part insertion.

The following steps occur automatically:

A. Low pressure applied to right / left clamping fingers to secure tube.
B. Both “radial” clamp banks close tube seam to alignment blade
C. “Axial” pusher squares tube seam
D. High pressure applied to “left” side of clamping fingers to secure material
E. Seam alignment blade is raised and removed
F. Radial clamping force closes seam gap to center line position
G. High pressure applied to “right side” of clamping fingers
H. Torch pneumatically lowered to seam center home position
I. The Arc is automatically initiated and proceeds according to selected program. (All motion, current, voltage, wire and gas are closed loop controlled to provide high accuracy and consistency).
J. When the torch reaches the end of the part and weld is complete, the torch is pneumatically raised to upper limit.
K. Both sets of clamp fingers (right & left) automatically open for rapid part ejection.
L. The alignment blade is automatically lowered after part ejection to ready the system for the next sequence.

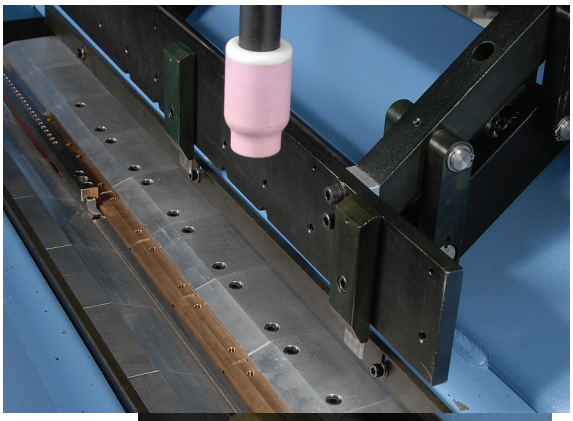
# Automated Welding System with Auto Tube Ejector System

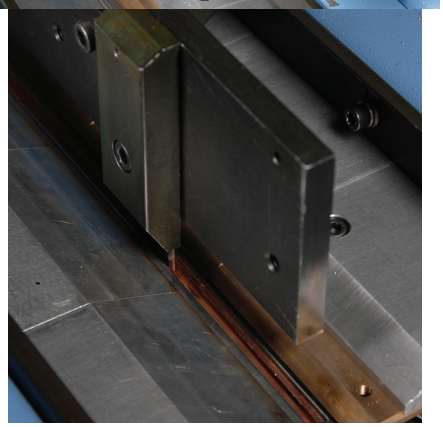
## APPLICATIONS

Weldlogic Automatic Seam Welders can be used for a wide variety of high production applications:

- Automotive Filters
- Electric Motor
- Fire Extinguishers
- Sanitary Tubes
- Appliance Tanks
- Catalytic Converters
- Cryogenic Vessels
- Custom Mufflers
- Water Heater Tanks
- Compressor Tanks







## SPECIFICATIONS

As a result of the wide range of application specifics, Weldlogic requests you contact the factory for information on your application.

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