WELDLOGIC
FORMING & WELDING SOLUTIONS

WELDING SOLUTIONS
FOR ADVANCED
MANUFACTURING

Plasma | Tig | Laser | Mig | Sub-Arc

AWS-4000-Watt Laser Seam Welder

SEE IT IN ACTION

Engineering Challenge

CHALLENGE

Design a laser seam welding system capable of efficiently welding a wide range of materials—including aluminum alloys, stainless steel, carbon steel, and galvanized steel—across thicknesses from 26 gauge to 3/16".

The system needed to consistently produce leak-tight, high-strength seam welds across all materials—without requiring highly specialized operators. The goal was a true "do-all" seam welder delivering high-quality, high-speed results with minimal operator dependency.

Additionally, the system required full weld program storage for instant recall, with repeatability better than ±1%, and the ability to achieve welding speeds exceeding 100 inches per minute (IPM).

SOLUTION

Weldlogic Engineering selected the PLS Precision Longitudinal Seam Welder platform and engineered a system capable of handling a full range of diameters, lengths, thicknesses, and material types.

To support aluminum welding, the system includes an optional wire feeder for proper filler metal integration.

The system is powered by a 4kW fiber laser with wobble head, controlled by the AWS Advanced Welding System, delivering precise control, consistency, and ease of use.

Additional features include:

- Full weld program storage and recall for repeatable production
- Remote start/stop controls and auxiliary foot pedals for operator flexibility
- Fully enclosed laser safety cell with integrated fume extraction and HEPA filtration for a clean and safe working environment

WELDLOGIC USA
2651 Lavery Court
Newbury Park, CA 91320
Tel. 805.498.4004 I Fax. 805.498.1761

Contact us Today for your Welding Solutions!

WELDLOGIC.COM

WELDLOGIC EUROPE
Blackstone Road, Huntingdon
Cambridgeshire, PE29 6EF, UK
Tel. 01480 437478 I Fax. 01480 437479

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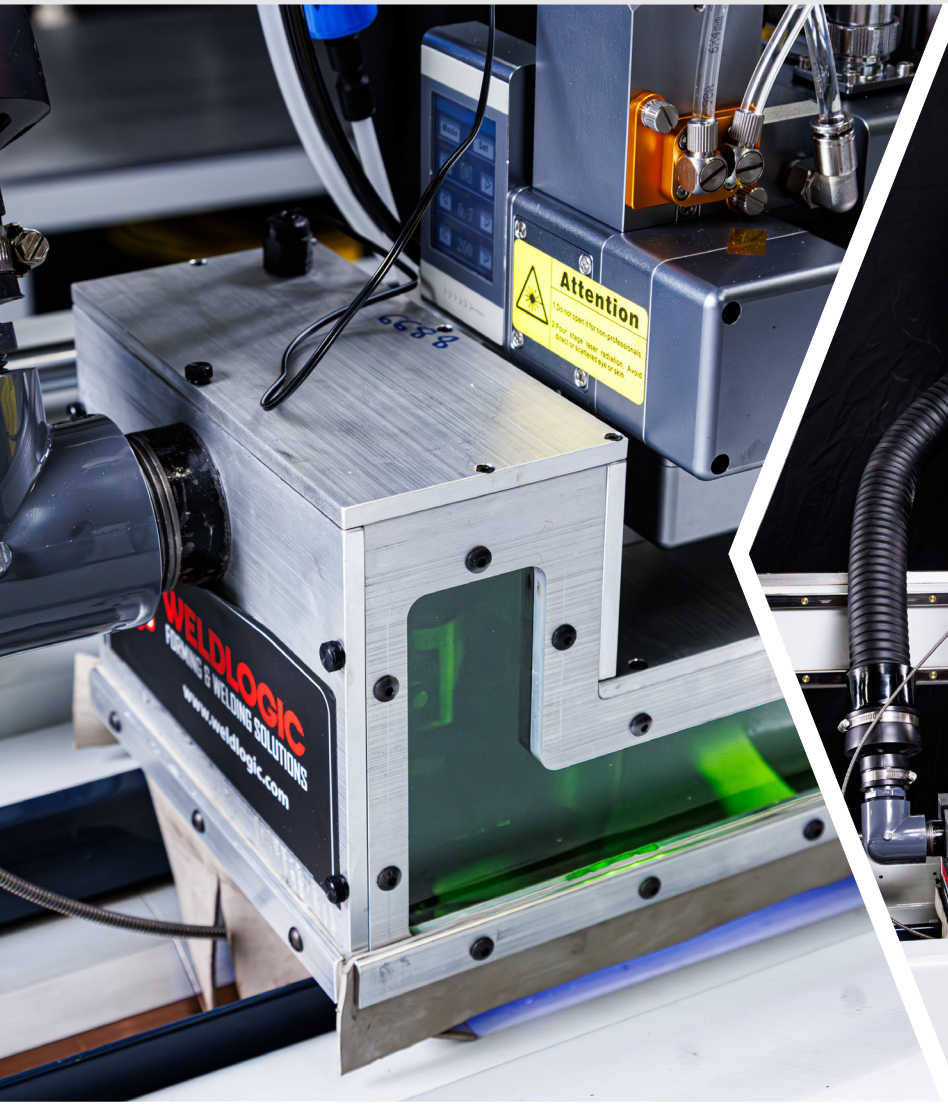

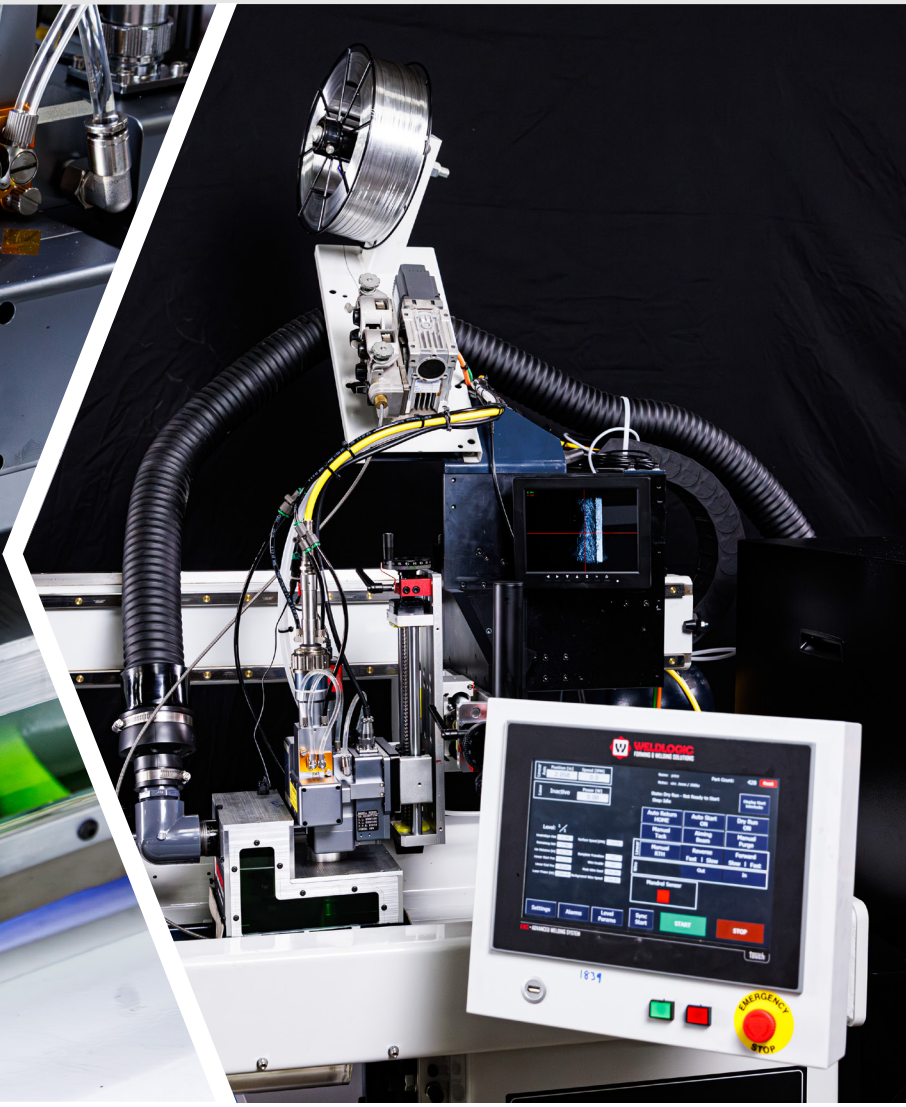

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