



AWS PA-10-100 / Advanced Welding System Micro-Tig –Plasma Welding

Plasma | Tig | Laser | Mig | Sub-Arc



Micro - Tig



Micro - Plasma

Engineering Challenge

CHALLENGE ▼

Weldlogic Engineering was challenged to design a next-generation Micro-TIG / Micro-Plasma, computer-controlled welding cell capable of storing all micro-welding recipes in a single, purpose-built system.

The AWS – Advanced Welding System controls all critical weld parameters with accuracy better than $\pm 1\%$, ensuring consistent, repeatable results. A proven arc starter, based on our PA-10-100-STD platform, delivers reliable ignition, followed by programmable weld current from 0.10 to 100 amps with a stable arc across the full range.

The system also provides precise control of tungsten-to-work distance and highly accurate linear and rotary motion. With multi-axis capability and advanced automation, it eliminates reliance on skilled welders and enables consistent results with a standard operator.

Built on over 40 years of experience, this platform delivers high-precision, repeatable welding automation.

SOLUTION ▼

AWS-PA-10-100 Micro-Tig or Micro Plasma platform is manufactured to make the most precision Micro-Welds possible with all parameters closed looped or positioning via A.C. Servo.

We offer this system with the following options to enable you to control the entire process:

- Automatic Gap Set of Tungsten to Work Distance (programmable in .001" steps)
- Dual Gas control with flow sensors to eliminate gas flow related scrap parts (gas alarm to alert operator)
- Password protected at 3 levels to eliminate operators changing the validated setting
- Thumb drive or ProfNet to manage all your developed / validated programs
- Multiple Level programming to enable heat tapering if required
- 4 Axis of C.N.C. programmability
- Seam Tracking or Seam Finding
- Speed Lathe- Available in a wide range of lengths and diameters to accommodate requirements
- Turn-Key system with process development and validation included

Contact Weldlogic to discuss the specifics of your micro-welding needs and expectations

WELDLOGIC USA

2651 Lavery Court
Newbury Park, CA 91320
Tel. 805.498.4004 | Fax. 805.498.1761

WELDLOGIC.COM

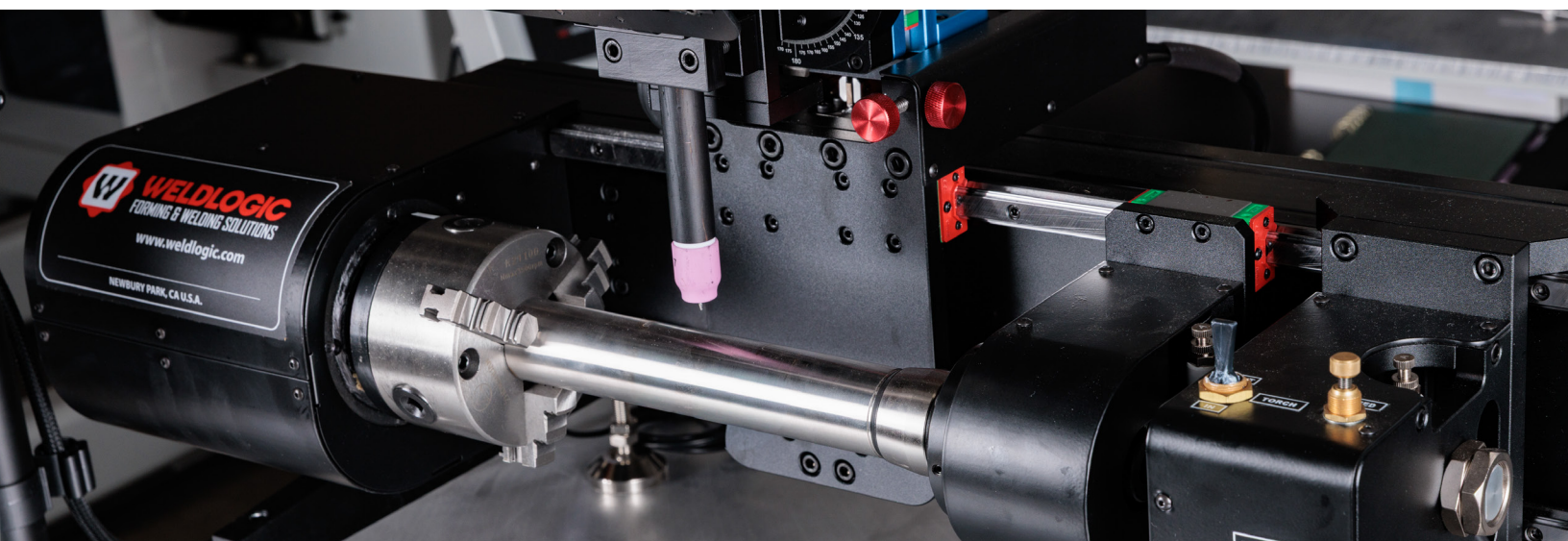
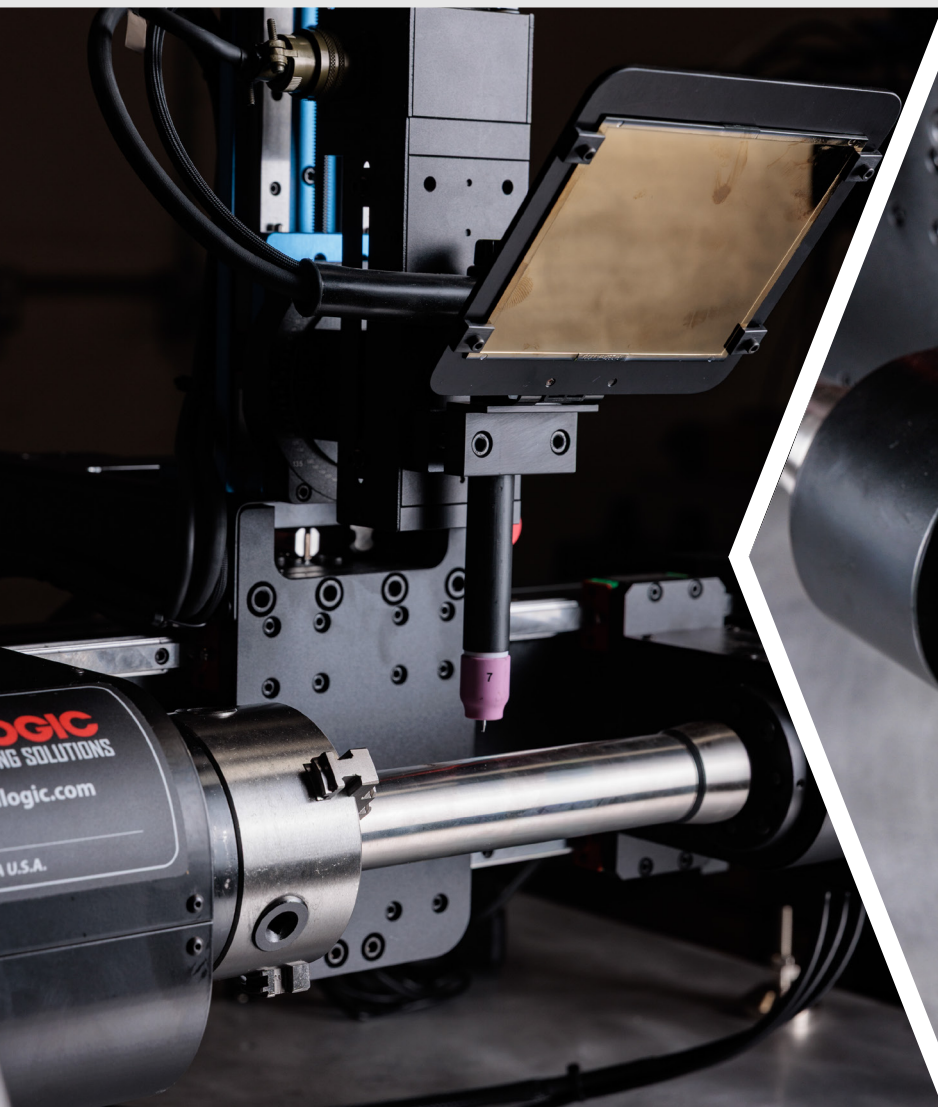
WELDLOGIC EUROPE

Blackstone Road, Huntingdon
Cambridgeshire, PE29 6EF, UK
Tel. 01480 437478 | Fax. 01480 437479



WELDLOGIC
FORMING & WELDING SOLUTIONS

WELDING SOLUTIONS
FOR ADVANCED
MANUFACTURING



WELDLOGIC USA

2651 Lavery Court
Newbury Park, CA 91320
Tel. 805.498.4004 | 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 | Fax. 01480 437479