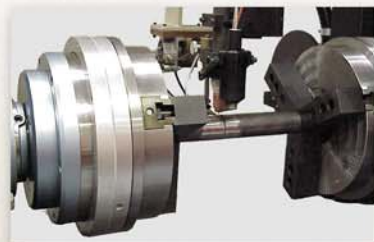
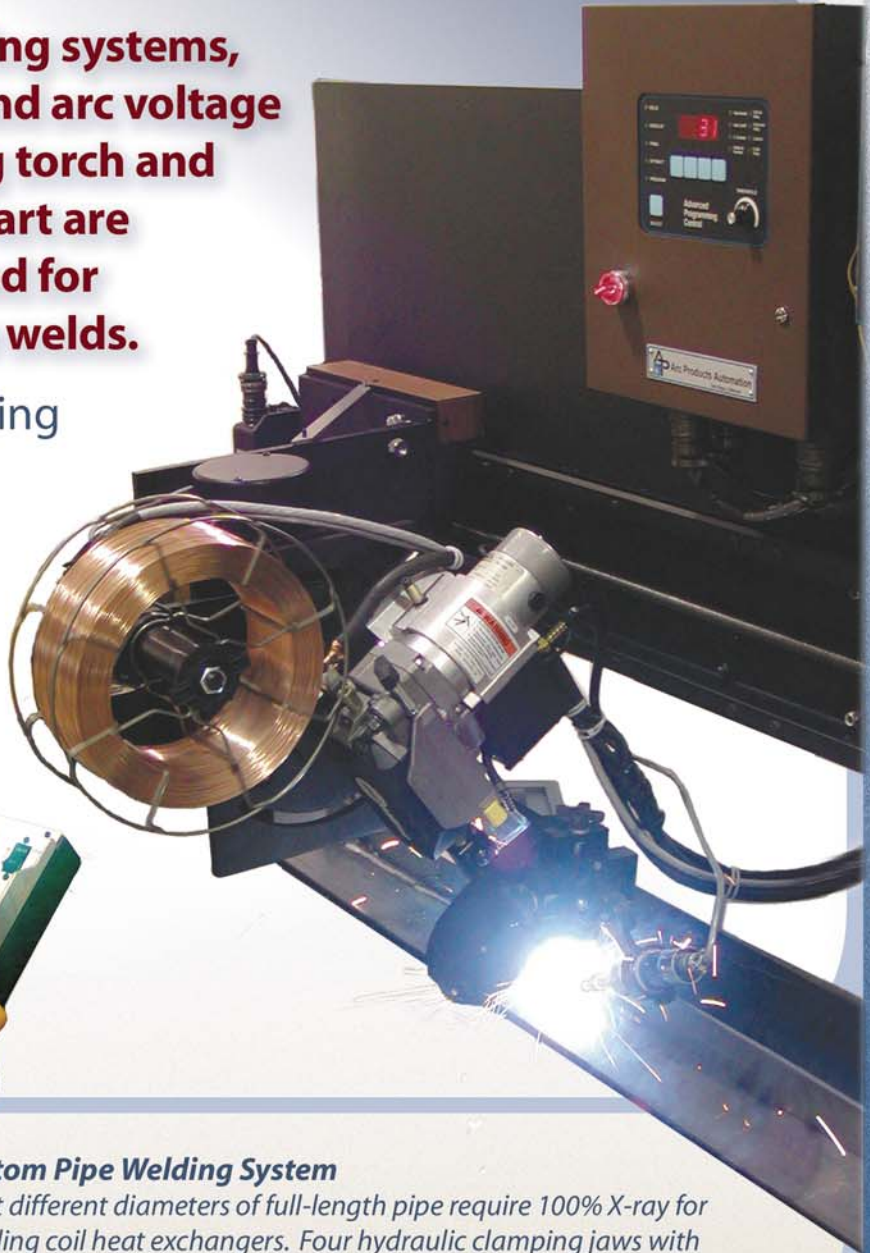


Automation Systems

Custom Engineering Specific to Your Application

Utilizing seam tracking systems, lathes, positioners and arc voltage controls, the welding torch and movement of your part are completely controlled for perfectly repeatable welds.

We have been building custom systems for over 20 years. Our equipment is rugged and incorporates the latest proven technologies.



Custom Pipe Welding System

Eight different diameters of full-length pipe require 100% X-ray for building coil heat exchangers. Four hydraulic clamping jaws with head and tailstock synchronized rotation. Multiple programs for single and dual-pass automated welding. Off-line adjustments are made with the custom control pendant.



Automation™

1245 30th Street
San Diego, CA 92154

www.ap-automation.com

1-800-770-0063

619-628-1022 Fax: 619-628-1028

Introducing Automated Welding in Your Shop:

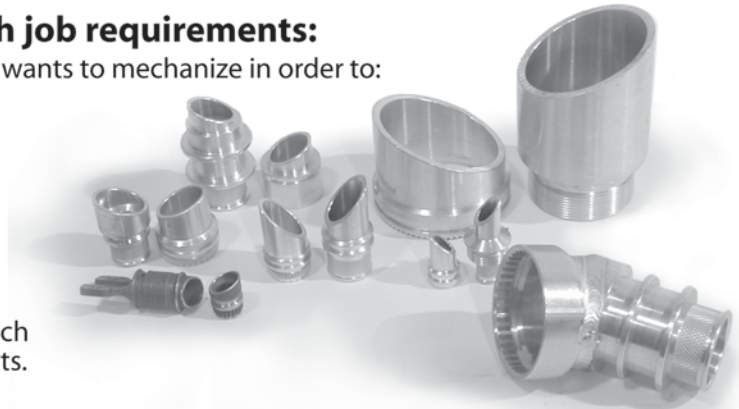
Example: Custom-Engineered System for Small Aluminum Connectors

1

Customer contacts AP Automation with job requirements:

Customer is currently hand-welding these parts and wants to mechanize in order to:

- Increase production
- Improve weld quality and consistency
- Reduce rejects
- Lower operator skill level requirements



The customer has 45 different aluminum parts, which require quick setup and easy switching between parts.

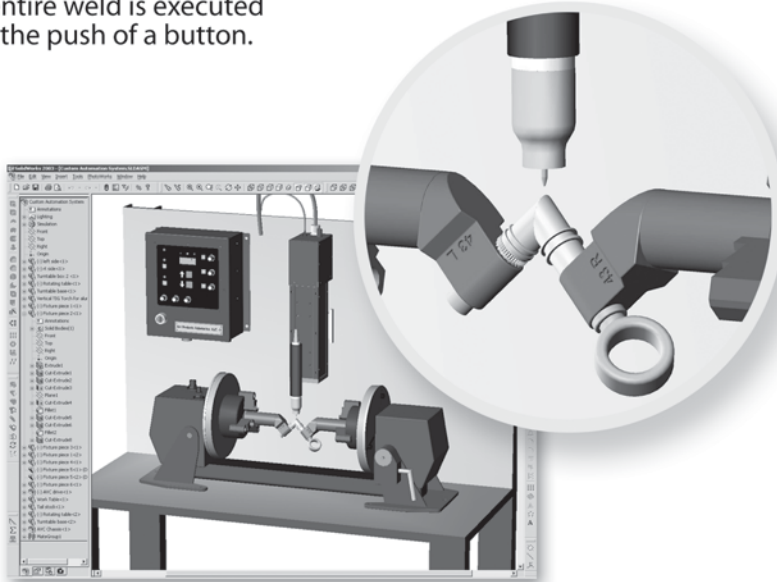
2

AP Automation Custom-Engineers a Welding System:

AP Automation designed fixtures with internal argon purge for each part. The fixtures exactly align the two halves of each part together before welding. Each set of holding fixtures is labeled with a part number which corresponds to the program number in the AP-1000 TIG Controller. The fixtures quickly clamp into a weld lathe, which has synchronized head and tail stock rotation.

The simple programming of the AP-1000 is ideal for this application. AP-1000 controls all welding parameters for each part, including amperage, voltage, wire speed, and lathe rotation speed.

Once the parts are oriented in the fixture, the entire weld is executed with the push of a button.



System Features

- Slant-back controller cabinet design
- Graphics display—primarily text based with graphics capability

Aluminum Fittings

- Parts drawn in SolidWorks
- Exact 3D Model

3

Solidworks® 3D CAD model is created and emailed:

This allows the customer to view on his web browser an animated simulation of his job being welded with our system. The customer can zoom in and manipulate the image to view all of his clearance requirements and verify our equipment for his job. No extra software is required to view the model. In addition, AP Automation emails a PowerPoint® presentation detailing the system and its cost, giving the customer all the information needed to make a purchase decision.



AP Automation offers advanced, rugged, and affordable welding equipment and systems.

Call 1-800-770-0063

E-mail sales@arc-products.com, service@arc-products.com

