

Orbital TIG

Rugged, Compact, Custom-Engineered Systems



Orbital TIG is a mechanized TIG welding process for joining pipe and tube using a clamp-on weld head. The pipe remains stationary and the welding torch automatically rotates around the weld joint, completing the entire weld.

Five Reasons for Orbital Welding

- 1. Beautiful, identical welds**
with accuracy and consistency
- 2. Easier to qualify welders on approval test.**
Process relies on automated equipment rather than on operator skill.
- 3. Less operator fatigue.**
Reduces the amount of operator attention necessary: principle task of operator is to set up and monitor the automated weld.
- 4. Difficult welds made easy.**
Tight clearances and hard-to-reach locations are the environments in which AP Automation weld heads excel.
- 5. Higher productivity.**
Much higher production output and lower rejection rates compared to manual welding. Accurate, simple production planning and calculation.

Custom-Engineering for heavy-wall, "hairpin" return bends:

- Orbital welding on 3" schedule XX (.600" wall) heat exchanger
- 100% X-Ray Orbital TIG required.



Orbital TIG is used in these typical industries:

- Dairy/Food Industries
- Refineries
- Oil/Gas Well Drilling
- Shipyards
- Aviation/Aerospace
- Mechanical Contractors



AutomationTM

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Precision Weld Heads

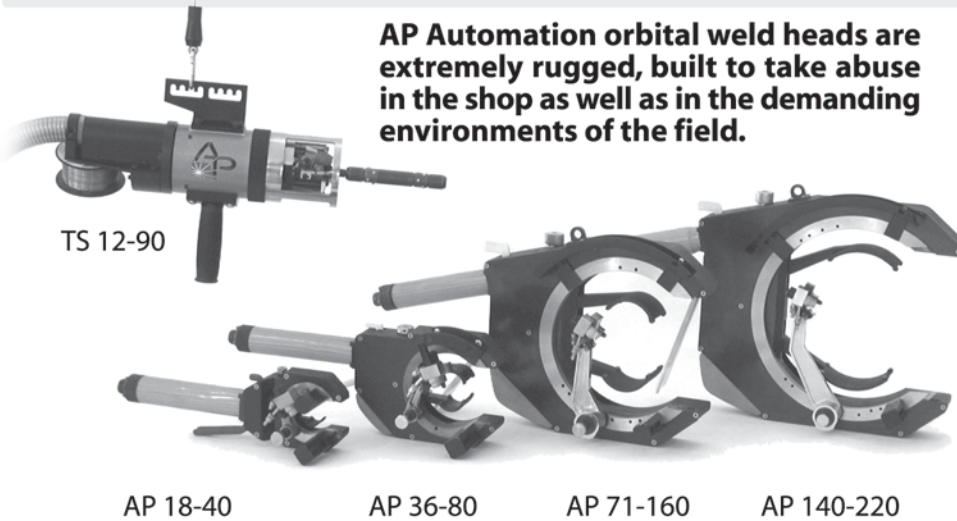
AP Automation orbital weld heads are extremely rugged, built to take abuse in the shop as well as in the demanding environments of the field.

Simple to service and maintain.
Simply clamp on, adjust above the weld joint, and begin welding. Setup for each weld takes about 30 seconds.

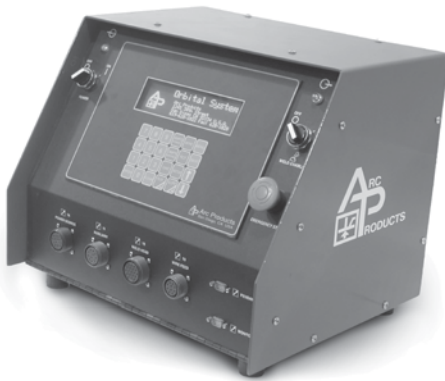
Lightweight and compact
Weld heads fit in tight-clearance locations.

Adaptable to a wide variety of weld joints.
Optional accessories and special engineering available to tackle almost any job.

Versatile
Weld heads for 1/2" to 8 5/8" tube-to-tube joints and tube-to-sheet welds on 1/2" to 4" tubes.



AP-1200 Orbital TIG Controller



Rugged and reliable, our microprocessor-based AP-1200 Orbital TIG System Controller provides inexpensive, accurate integration and automation of the entire welding process. With a storage capacity for over 30 programs, the AP-1200 synchronizes all the components of your welding system for easy installation and operation. This allows the operator the flexibility of running a fully programmed weld and making needed adjustments easily.

The AP-1200 regulates and synchronizes:

- Weld Current Level
- Pulsed Current
- Wire Feed
- Rotation
- Auxiliary Equipment

The remote pendant allows the operator these controls at the weld zone:

- Start and Stop
- Rotation Jog—Forward and Reverse
- Wire Jog—Forward and Reverse
- Current Control
- Return to Home Position
- Emergency Stop

Accessories

The Orbital TIG 1200 System includes:

- AP-1200 Controller
- Miller Dynasty LX Power Supply
- WFP-4 Wire Feeder (Optional)
- Water Cooler
- Equipment Cart: durable, easy-to-move, and compact (22" x 34" x 48"), perfect for harsh job site environments.
- Locking Tool Compartment for spare parts, tools, and up to 3 weld heads.



WFP-4 Wire Feeder

- Strong, 4-drive roll mechanism provides exact, stable wire speed of between 3 and 100 ipm.
- Accommodates 2, 10, or 40-pound wire spools.
- Enclosed to protect from dust and moisture.



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

Call 1-800-770-0063

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