

High accuracy welding and helium leak detection from the experts

- Do you need very high quality welded pipework?
- Are you having problems in conforming to ever tighter vacuum leakage specifications?
- Do you need to make your high integrity pipework leak free?

AIC have both the equipment and expertise to help you improve your current systems.

By using two highly specialised systems, AIC can produce pipework and systems that will meet the highest possible standards of integrity and achieve leak free piping systems.

Swagelock Orbital Welder

This specialised piece of welding plant produces extremely accurate welds of the highest possible quality.

A Gas Tungsten Arc Welding process, with the pipe remaining stationary whilst the weld head rotates around the joint, achieves a perfect weld without the use of any filler materials.

The weld process is tightly controlled by a Micro-controller which also utilises feedback from the welding head. The on-board data recorder keeps a record of the selected weld parameters and also the actual welded outputs. This quality control record can be printed or transferred to a PC for QA records.

Due to the compact nature of the weld head, the device can be used on existing pipework, usually without having to remove it from its containment, in order to complete the welded joints. A large variety of valves and other components are available so that the system can become "fully welded" and virtually joint free. The system includes all necessary pipe preparation and fixing equipment which is essential in order to maintain the quality of the weld.



Swagelock Orbital Welder



Swagelock Orbital Welder Software Screen

Helium Leak Detection equipment

AIC has a portable, multi-purpose helium leak detector manufactured by Leybold.

This equipment is provided with "sniffer" lines which can detect leaks in a number of ways. The unit includes other test equipment and probes which provide a varied and flexible testing facility. These can detect Helium leakage down to 1×10^{-7} mbar x l / second using the "sniffer" probe.

The leak detector permits the localisation of leaks and also the quantitative determination of the leakage rate. There are many different types of test that are used by this equipment. These fall into one of two categories:

- Vacuum methods – where the equipment to be tested is pressurised with the search gas.
- Pressure rise methods – where the test object will be evacuated and isolated, and the pressure rise is then monitored and evaluated.

If either of these pieces of equipment or the technologies behind them could help your business, then please give AIC a call. We will be happy to lend our expertise to solving your problems.



Helium Leak Detection equipment

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