Helium Leak Tester

Designer, Manufacturer and Integrator of Machines and Tooling

- **Automated testing precisely identifies each leak point and provides greater accuracy, sensitivity and repeatability than hand-held "sniffer" testing.**
- **Stores testing results for each part and allows identification of problem areas and failure points.**
- **Dedicated testers can be custom designed for specific parts and/or assemblies.**
- **Interchangeable tables accommodate a variety of parts – controls recognize each table and reconfigure test parameters as required.**
- **Parts can be single or double fixtured for higher throughput.**

Lomar Helium Leak Testers eliminate the variables and errors inherent in manual leak testing procedures.

Instead of testing for leaks with a hand-held "sniffer", Lomar Leak Testers use a series of clam shell fixtures – each with a fixed detector probe – that individually encapsulate and test every potential leak point on a part.

By automating the testing process, Lomar Leak Testers produce results that are far more accurate, sensitive and repeatable.

This, in turn, means the high quality data generated by these tests can be used to precisely identify recurring leak points.

Here's how the Lomar leak detection process works. After the operator loads the part / assembly into the tester and initiates the test cycle, clam shell tooling closes around each of the part's potential leak points.

The tester pulls a vacuum on the part to test for presence of O-rings, then charges the part with helium, at the parts "real life" working pressure.

After a programmed period of time (accumulation time), the system samples the air in each clamshell enclosure for unacceptable levels of helium.

The fixed probe, coupled with the protected testing environment within the clamshell, minimizes the risk of error and variation between tests. As a result, test results maintain a high level of accuracy and repeatability.

A readout on the control panel identifies the location of any leak, and has the capability to store the test data in the system's memory.

Custom engineered for each application, Lomar Helium Leak Testers can be designed as dedicated units for specific parts.

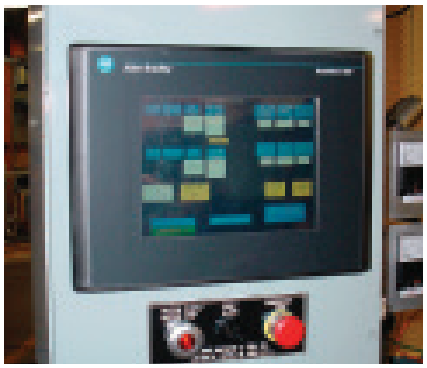
Additionally testers can be built to accommodate a series of interchangeable tables for testing a range of products.

When interchangeable tables are used, the system "recognizes" each table, and automatically reconfigures the test parameters for each specific part, further reducing the risk of operator error.

Ideal for testing automotive components like air conditioning lines, fuel lines, fuel rails, brake lines and other pressure or vacuum lines.

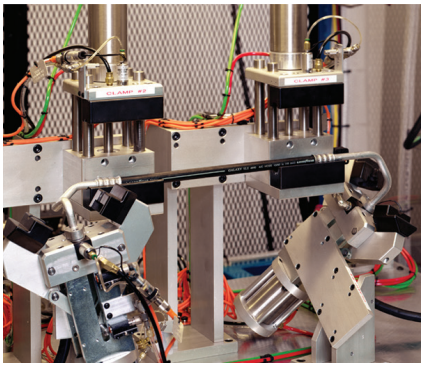
Lomar Leak Testers provide manufacturers with a level of testing accountability and accuracy that makes zero-defect production possible.

Features



Control panel

- HMI control panel provides simplified operator interface and process readouts.
- HMI allows operator to auto calibrate the helium mass spectrometer.
- Pneumatic enclosure to protect valving.



Clamshell Enclosure

- Clamshell enclosures are designed to encapsulate each potential leak point for individual leak testing.
- End seal nests are machined to mating components specifications to ensure proper sealing functionality during test.
- Light curtain safety interlock protects operators during clamshell actuation.
- Dedicated systems designed for testing specific parts.

Options

Interchangeable Table System

- Interchangeable table systems designed to test multiple parts.
- Part stamping - engraving systems for pass or fail identification.
- Helium reclamation systems.
- Valve stem actuators.
- Component pick bins.
- Component present sensors.
- Transducer / pressure switch operation tests.
- Vacuum systems.

LOMAR™ MACHINE & TOOL

135 Main Street, P.O. Box 128
Horton, MI 49246 U.S.A.
Phone: (517) 563-8136
sales@lomar.com
www.lomar.com