

Assembly Technology & Test (ATT) is a recognized leader in the design and application of leak testing equipment.

From manually operated, stand-alone leak test units to fully integrated, automated load & unload production leak test stations, ATT has a proven track record in designing and building custom leak test systems for a variety of industries.

Although ATT maintains a focus on leak testing of demanding Powertrain related products such as assembled engines, transmissions, transmission cases, transmission components, engine blocks and cylinder heads; a wide range of test systems for other automotive, fuel management, and consumer products have achieved or surpassed customer expectations.

Leak Test Systems

ATT systems are capable of exposing a wide range of identifiable defects, including:

- Gross cavity leaks
- Fine cavity leaks to 1 cc per minute
- Casting porosity
- Cavity-to-cavity leaks
- Core shifts
- Die casting errors
- Machining errors
- Damaged surfaces
- Cracks
- Missing components
- Component presence

Wide Range of Leak Test Systems



System Values & Benefits

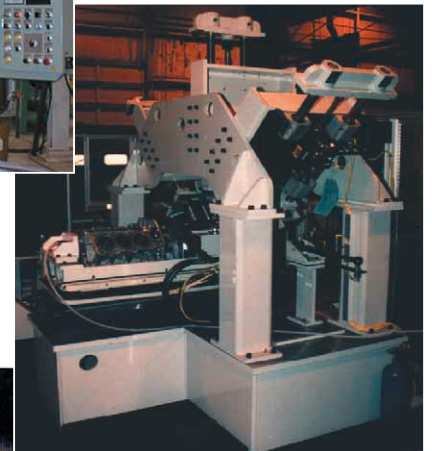
- Long history of sealing difficult, rough areas
- Seal design that provides long seal life
- Tool design that produces repeatable test results
- Ability to integrate any test unit
- Versatile test methods; able to change with applications

◀ Over 150 individual leak test machines have been installed for engines, transmissions, and their components

Motorcycle block leak test with quick-change fixture for testing of multiple blocks



Cylinder block leak test featuring ATT's exceptional corner seal technology ▼



▲ Transmission case leak test featuring large test volume with short cycle time



◀ Mass spectrometer leak test for compressor

Application Highlights

- Utilizes different testing methods:
 - Pressure Decay
 - Mass Flow
 - Mass Flow with Overfill
 - Differential Pressure
 - Differential Pressure with Overfill
 - Vacuum Flow
 - Mass Spectrometer
- Advanced seal technology incorporating compression limiters and unique retainer designs
- Incorporation of any commercial instruments at customer request
- Incorporation of standard techniques and components used in hundreds of prior applications
- Interchangeable quick-change platen designs

Leak Test Systems for Large Parts

Focused Specialties ▶ Broad Capabilities

Assembly Technology & Test
 A Division of Assembly & Test Worldwide
www.assembly-test-ww.com

- Component & heavy assembly solutions
- Powertrain assembly solutions
- Leak test stations & systems
- Flexi-test instrumentation
- Material handling solutions
- LogiTrack AEM

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Take the Next Step.
 Please contact us today to discuss your application and explore profitable possibilities.

Flexi-Test Controller



As a result of today's more demanding leak test requirements, ATT offers a state-of-the-art, PC-based Leak Test Controller and a flexible / configurable pneumatic circuit design. This advanced leak test solution, the Flexi-Test, is focused on providing a user-friendly controller capable of being used with the most demanding leak detection applications.

The design and capabilities of the Flexi-Test product line are based on ATT's broad range of leak testing experience. The controller and pneumatic panel are focused on ease of use, flexibility, and the ability to meet the most demanding test requirements for flow control and measurement.

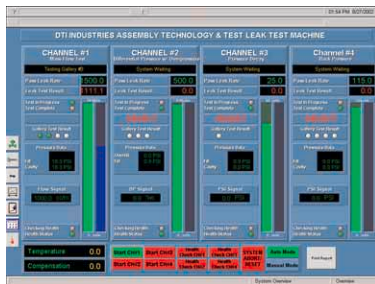
▲ Flexi-Test Controller features PC-Based, color touch screen, user-friendly displays, and touch screen interface. Real-time displays, data entry, and calibration with soft keypads.

Leak Test Functional Capabilities

- Easily configurable for different testing methods:
 - Pressure Decay
 - Mass Flow Measurement
 - Differential Pressure
 - Vacuum Flow
- Real-time graphical test displays
- Multiple channel pneumatic test capability
- User-friendly calibration capabilities
- Data collection and archiving capability; report generation capabilities
- Allows customer to modify test parameters through user-friendly touch screen and soft key pads

PC-Based Control Software

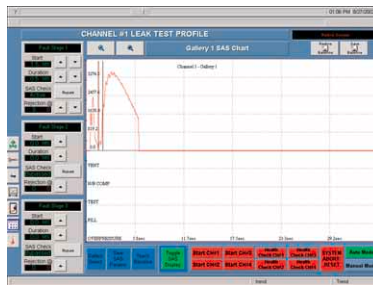
ATT's software is customized for individual applications. In addition to the screens shown here, many other displays are available.



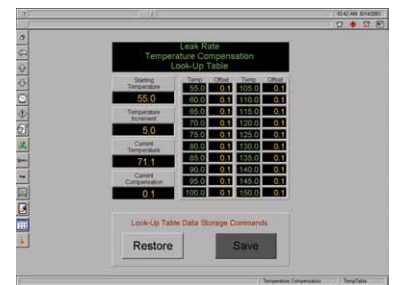
▲ Test Screen – displays test in progress, status lights, leak limits, actual transducer readings, and final test results



◀ Manual Screen – allows manual control of test circuit valves



◀ Graph Screen – allows transducer output waveforms and the status of test circuit valves during the test (Signature Analysis)



▲ Temperature Compensation Screen – entry capability for automatic adjustment of factors based on selectable parameters

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