



ALL-IN-ONE LEAK TEST PANEL SEQUENCES YOUR ENTIRE MACHINE



The Path To A Turn-Key Robust Production Leak Test Solution:

1. Contact Future Technologies Inc. ("FTI") for an *unbiased review* of your leak test requirements
2. Allow FTI to design a system for you - OR - you are invited to take an *active role in the design process* of your instrument
3. FTI will manufacture your test system of *non-proprietary components* in an open, service-friendly cabinet arrangement
4. FTI will provide *turn-key set-up, training and gage R&R*
5. You get to *quickly run production*

Applications For FTI Leak Test Systems

Automotive

Fuel Rails & Fuel Lines
Fuel Injectors & Fuel Injector Coils
Fuel Filler Tubes & Tanks
Oil, Fuel & Air Filters
Transmission Housings
Torque Converters
Brake Lines, Master Cylinders & Calipers
Airbag Inflators, Nozzles & Switches

HVAC (Gross Leak Testing)

Heat Exchangers, Coils & Tubes
Dryers/Accumulators
Thermal Expansion Valves
Compressors & Manifolds

Medical

Syringes & Laparoscopic Products
Implantable Devices
Infusion Pumps

Typical FTI Leak Test System

Includes:

- All-inclusive pricing - no surprises
- 8+ concurrent leak test channel capability
- Integrated system self-test with internal calibrated leak
- Independent channel test range capability from vacuum to 120+ PSI
- Any combination of several methods -
 - Pressure Decay
 - Pressure Differential
 - Pressure Increase
 - Mass Flow w/pressure
 - Mass Flow w/vacuum
 - Vacuum Decay
- Choice of PLC processor ←
 - Direct Logic
 - Micrologix
 - A/B SLC
 - Modicon
 - Other (Your Choice)
- Dual boxes (i.e., 1 pneumatic, 1 electrical) where required
- Adaptable/Upgradeable design - flexible
- "Open Architecture" - utilizing off-the-shelf components

PLC power to
*sequence your
entire system -
including
automation and
part marking*



*Future
Technologies Inc.*

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THE PATH TO A TURN-KEY ROBUST PRODUCTION LEAK TEST SOLUTION

“Design For Flexibility” and “Design For Maintainability” are two of the key philosophies followed by FTI in the design and manufacture of turn-key leak test systems. FTI uses off-the-shelf non-proprietary components and software, coupled with a straightforward “open” cabinet design that provides our customers the option of servicing the systems themselves. Consider the FTI Advantage when specifying leak test equipment:

Future Technologies Inc.	“Packaged” Instrument Manufacturers	Do-it-yourself or “Mom & Pop” Machines
“Open” cabinet design allows for ease of service, adaptability, and upgradeability	Most are “packaged”, with little adaptability, if any	??
All-inclusive pricing: turn-key set-up, training and gage R&R study included	Verify availability (and added cost, if any) of this service with the manufacturer	
System utilizes readily available non-proprietary components for ease of sourcing	Caution! Many systems use patented or proprietary components and software available ONLY through the system manufacturer	
Unbiased selection of instrumentation best suited for the job	Instrument manufacturers use their own hardware exclusively	??
Customer input is encouraged during design and manufacture (visits to FTI welcomed)	Most are “pre-packaged”, with few upgrade options, if any	??
Collaborative design; i.e., sequencing of customer tooling via FTI test system control	Most are “pre-packaged”, with few upgrade options, if any	??
Unbiased selection of test method best suited for the job (i.e, pressure decay, vacuum decay, pressure differential, mass flow)	Many manufacturers focus only on their specific method of expertise	Inexperience with leak test technology can
Determination of the number of channels required and the test method for each	“Packaged” instruments usually have a finite, set number of inputs	result in incorrect choice of test method

Rely Upon FTI’s Excellent Reputation For:

- ✓ *Uptime - robust and reliable machines*
- ✓ *Immediate world-class service and support*
- ✓ *In-Depth Training*
- ✓ *On-Time Delivery*
- ✓ *All-Inclusive Pricing*



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