



LEAK DETECTOR PROGRAM

EXPERTS FOR 20+ YEARS IN LEAK DETECTION



1 5LD HIGH SPEED LEAK DETECTOR

This is Pet All's flagship machine and a universal unit that can supply 90% of applications. Very simple and easy to use, the 5LD is one of the world's fastest leak detectors for mid-to-small size containers. Used extensively behind IBM machines, the 5LD can leak test up to 9000 small pharmaceutical bottles an hour with great accuracy. Such performance is normally only obtainable with 3-head units at three times the price.



LEAK DETECTOR WITH IBM MACHINE

The picture shown above is a typical installation of our 5LD High Speed Leak Detector, connected to Pet All's Flagship /135 Ton IBM Machine.



FEATURES

Manufactured 100% in Canada for North American market
Extremely easy to operate and understand
Inexpensive tooling
Quick changeovers
Complete spare parts inventory
Toronto service centre with trained field support staff
Design engineering staff for custom configurations
Heavy Duty construction
Custom built microcomputer 30% more powerful than competitive systems
North America made and approved electrical system

OPTIONS AVAILABLE

Inclusion test heads
Fallen bottle detection
Counter diverter
Vacuum conveyor
Extension in conveyor width
Custom conveyor lengths
Electric conveyor height adjustment
Castors for easy relocation

SPECIFICATIONS:

Test capacity: 0.1-10 liters
Test rates up to: 9,000 parts per hour
Air requirements: 7 bar (100 psi)
Pressure sampling rate: 15,000 per second to .01 Kpa resolution

MACHINE DIMENSIONS:

Height: 1600 mm (63")
Length: 1500 mm (59")
Custom lengths on request.
Width: 500 mm (20")
Conveyor heights: 1000 mm (39")
± 150 mm adjustment: Custom

BOTTLE DIMENSIONS:

Maximum height: 500 mm (20")
Maximum width: 140 mm (5.5")
Maximum length: 300 mm (11.8")
Neck diameter: 75 mm (2.95")



PET ALL MFG. INC. FACILITY IN ASIA



PET ALL MFG. INC. FACILITY IN CANADA

2 BUDGET 3LD LEAK DETECTOR



The 3LD leak detector is a heavy duty, low output machine designed to run in tandem with extrusion blow molders. The machine is suitable for all bottles between 0.5 and 10L.

Output on a 1 gallon container is 8 ppm. It has the capacity to detect ten thousandths of an inch whole diameter, but at reduced speeds, can detect much finer holes.

SPECIFICATIONS:

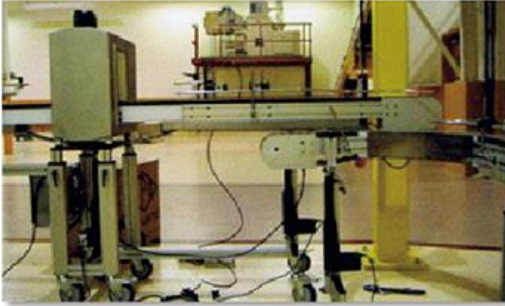
Test capacity up to 10 L bottle
Test rates up to 500 pph
Air requirements 80-120 psi
Conveyor speed 0-131 feet per minute

MACHINE DIMENSIONS:

Fiber optic or photo electric sensors
Custom conveyor configurations
Electrically adjustable conveyor height
Castors for heavy movement



3 SPECIAL CUSTOM CONFIGURATIONS

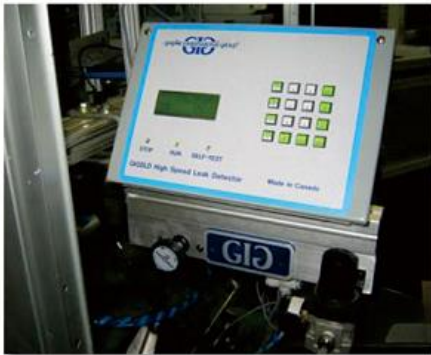


Special conveyerization, accumulators, pick and place, vacuum, metal detectors, weight checking and other special systems can be integrated into an automatic line.



Above is a photograph of a typical unit attached to a Husky high speed reheat stretch blow molding machine for delivery to a large US corporation.

4 LEAK DETECTORS INTEGRATED INTO SCREEN PRINTERS



Pet All Manufacturing Inc. has designed and built a complete range of modified GIG 5LD units, the heart of which is integrated into screen printing machines. Most developments have been done on the OMSO Novax M screen printer. Please see photograph to the left of a typical installation.

Configurations to date have been integrated into the first print station, or after the last print station, according to the customer's requirements.

An engineering charge, in addition to the software, is necessary to integrate the leak detector into the screen printer. It is highly recommended that the module be delivered to Pet All workshops to complete this work. It can be done on-site; however, installation will be over a longer duration of time.



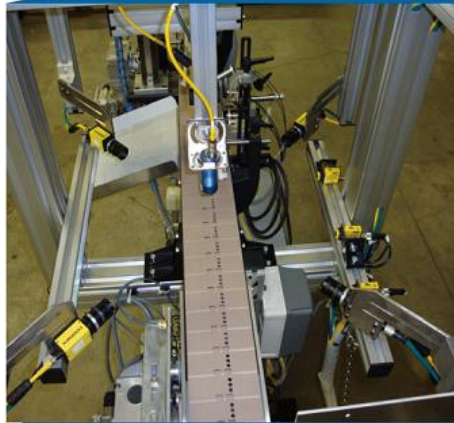
IL-VS

INTEGRATED LEAK-TEST / VISION SYSTEM

Four camera 360 Degrees Side Inspection:

- system includes four 640 X 480 resolution Cognex 1100C color cameras
- operator interface in NEMA 4 enclosure contains Cognex Vision View touch screen panel to adjust inspections and monitor results, PLC, I/O module with ethernet connectivity
- mounting structure to support cameras and lighting designed to mount directly to 5LD

**Camera System:
Close-up showing 4 X 1200
& LED overhead
illumination light**



**5th overhead
camera view showing
neck**

