



Industry Notification - Electronics Industry

# Delta Air-Tightness Testing System

IABG Global Solution Center

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# Air-Tightness Testing System

## Introduction

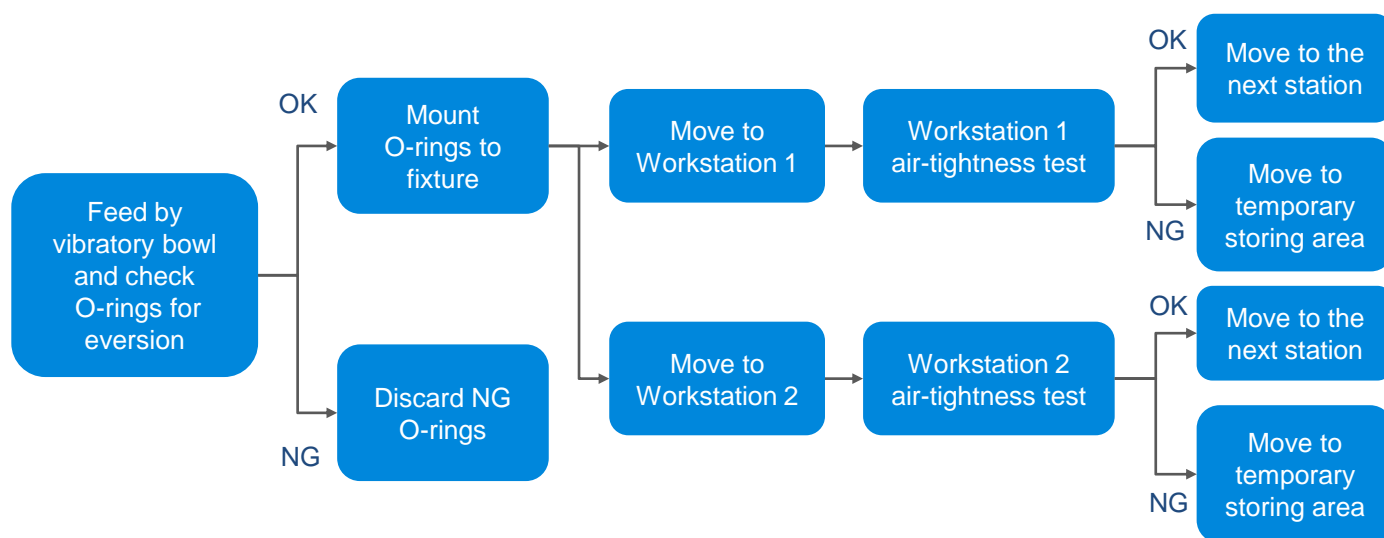
This system consists of 3 parts:

1. Screening: Determine the state of sealing parts and check for eversion.
2. Mounting: Mount sealing parts to drive plates.
3. Test: Drive the test machine for an air-tightness test.

This air-tightness testing system employs Delta Compact Modular Mid-range PLC for logic control, combined with the HMI for system status display and parameters adjustment.

## Application

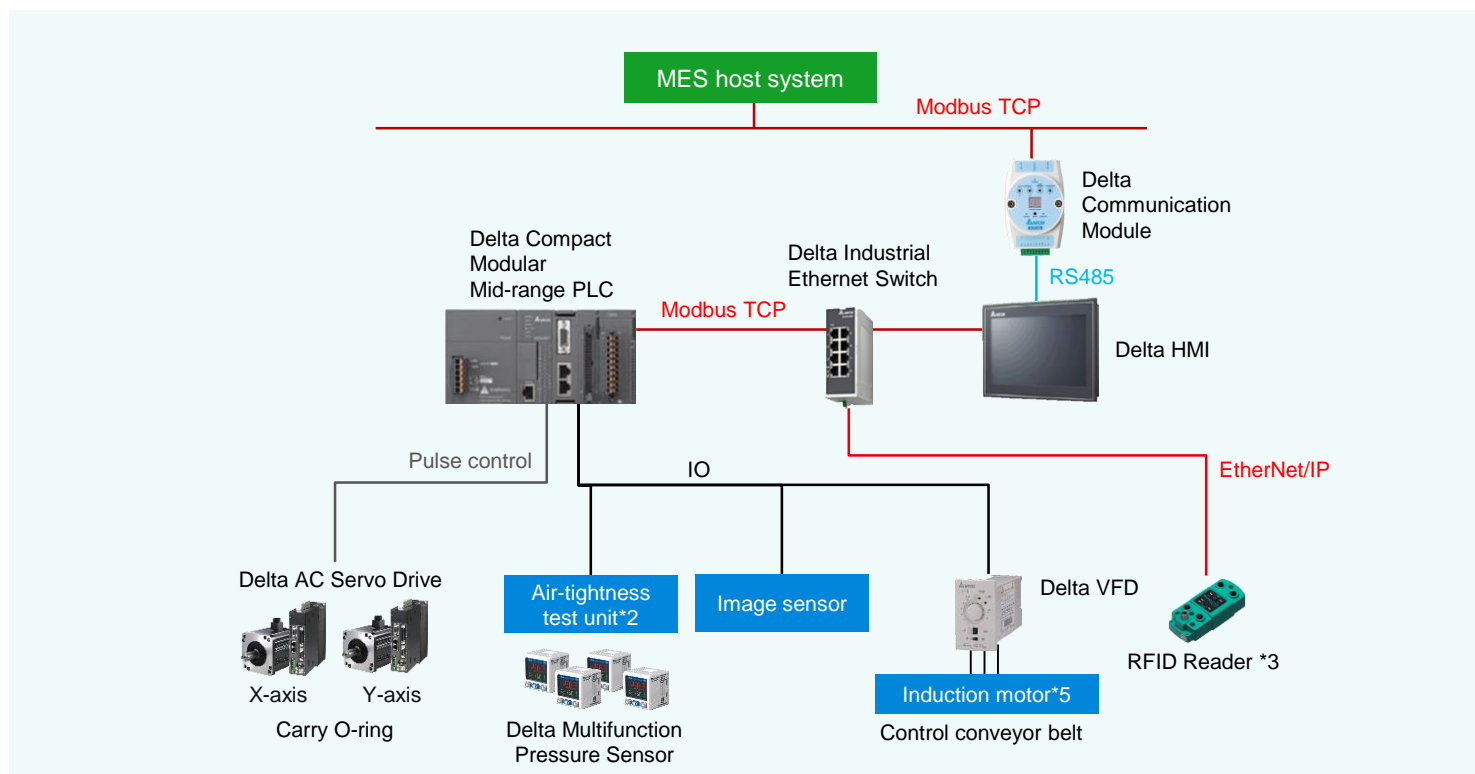
This solution is ideal for compressed gas leak detection of parts and products. It is suitable for the air-tightness test of automobiles and motorcycles, aircraft, electronics, appliances, refrigerating apparatus, cylinders, battery packs, and valves.



## Principle

This system offers compressed gas leak detection by injecting air under precise pressures into elements. And the electromagnetic valve controls the airflow within a certain period and shuts the valve when it reaches the set pressure. Comparing the pressure differences determines whether there is an air leak.

## Solution Architecture



## Features and Advantages

### Smooth Production Line Control

- Built-in position planning table for fast position planning and path simulation.
- Capable to specify any two axes for linear interpolation and circular interpolation.
- 20-bit resolution encoder for accurate positioning and smooth control.

### User-friendly Management Interface

- Support LUA syntax; Easy programming and debugging with the built-in function library and samples.

### Energy Saving for High Efficiency Test

- Easy duplicates parameters with the fast copy function.
- The energy-saving mode saves electricity consumption by more than 20%.

### High Compatibility

- The entire solution is built with Delta products, which makes the installation, usage, and maintenance easy and convenient.

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