

Speed-Glider 8.1.5 eight-station unit (largest unit)



Speed-Glider 2.5 two-station unit (smallest unit)

The ALPS Speed-Glider is a multiple-station continuous-motion linear leak tester for empty containers. The system is designed for inspection speeds up to the 500 Containers-Per-Minute (30,000 Containers-Per-Hour) range.

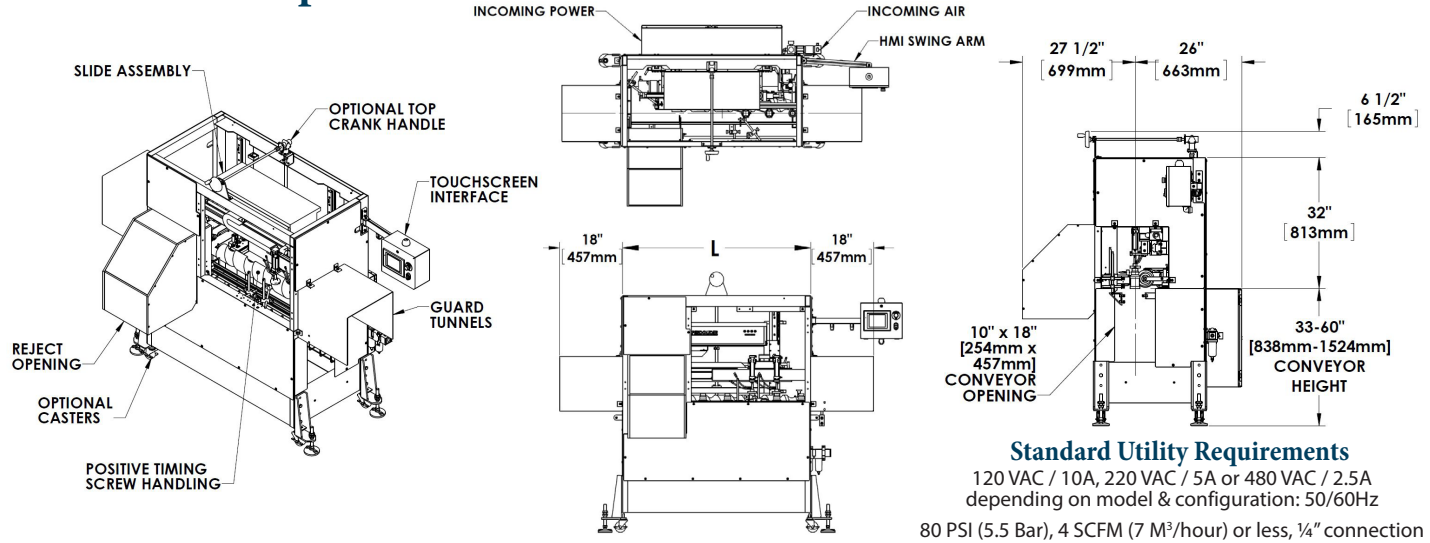
Positive container handling and control is achieved through the use of precision timing screws for each container size, or timing screws may be shared between similar container sizes. The use of this single change part greatly simplifies setup and changeover, while ensuring optimized performance. The timing screw handles the container positioning and only a single sensor is used in the test area to verify the presence of containers.

The machine is designed to conveniently install onto existing tabletop conveyor systems, in many cases eliminating the need for containers transfers between conveyors.

Features and Benefits

Feature	Corresponding Benefit
Continuous motion operation	Smooth and efficient container flow at high speeds
Moving test heads	Allows use of fewer test stations to achieve higher speeds and greater test times for a more accurate leak test
Timing Screw handling	Provides positive container handling and control to easily optimize machine performance
No integrated conveyor	Allows use of customer's existing conveyor
Standard Ethernet	Enables collection of data from the system for SCADA purposes
Color touch screen interface	High quality interface with numerous features and capabilities
Icon-based menu structure	Ease of navigation with all main functions available within 2 button presses
Password protection	Lock out unauthorized access to critical settings
Graphic displays of part pressure and result calculations	Real time feedback for better understanding of the leak test function
Recipe storage with alphanumeric naming	Quick and repeatable changeovers with unlimited number of recipes to save and recall
Fast, powerful PLC controller	Non-proprietary controls platform that maintains ALPS leak test standards
Integrated 'Self Test' function	Easy and reliable means to verify detection of a defined hole size through the touch of a button.
Container Presence Sensor	Increases component life on the machine – If a container is not present in a pocket the probe cylinder is not extended; and if container flow ceases the slide pauses its operation
Numeric display of probe and fill pressure regulators	Easy setup and monitoring of regulator settings which are critical to the leak test
Laser Height inspection option	Detect tall or short containers on the leak tester
Choked Neck Sensing probe option	Detect bottles with neck obstructions, using custom probes
Multi-speed options	Machine can automatically adjust its speed and stop/start based on the container backlog
Reject verification option	Verifies that each container is ejected properly from the conveyor

Standard Machine Specifications



Machine Model	Number of Leak Testing Stations	Top Speed	Frame Length	Maximum Rectangular Container Dimensions	Maximum Round Container Dimensions
Speed-Glider 8.1.5	Eight	500 CPM	L = 78" (1981 mm)	1.5" x 1.5" (38mm x 38mm)	2 inches (51mm)
Speed-Glider 7.2	Seven	435 CPM	L = 78" (1981 mm)	2" x 2" (51mm x 51mm)	2.5 inches (63.5mm)
Speed-Glider 6.3	Six	375 CPM	L = 78" (1981 mm)	3" x 3" (76mm x 76mm)	3.5 inches (88.9mm)
Speed-Glider 5.4	Five	310 CPM	L = 78" (1981 mm)	4" x 4" (101.6mm x 101.6mm)	4.5 inches (114.3mm)
Speed-Glider 4.1.5	Four	250 CPM	L = 78" (1981 mm)	1.5" x 1.5" (38.1mm x 38.1mm)	2 inches (50.8mm)
Speed-Glider 4.5	Four	250 CPM	L = 78" (1981 mm)	5" x 5" (127mm x 127mm)	6.25 inches (158mm)
Speed-Glider 3.85	Three	185 CPM	L = 78" (1981mm)	8.5" x 5" (216mm x 127mm)	6.25 inches (158mm)
Speed-Glider 2.10	Two	125 BPM	L = 78" (1981mm)	10" x 5" (254mm x 127mm)	6.25 inches (158mm)
Speed-Glider 2.5	Two	150 CPM	L = 53.5" (1359mm)	5" x 5" (127mm x 127mm)	6.25 inches (158mm)

How It Works

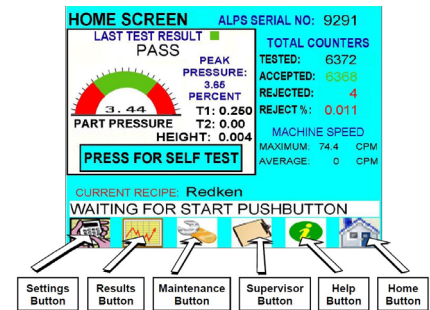


Servo-Driven Slide

The leak test probes are attached to a common carriage that is mounted to a servo-driven linear slide. The probes travel together and have a fixed "pitch", or distance between test heads. A variable speed frequency drive operates the timing screw, and the servo automatically synchronizes with the timing screw through the use of an encoder.



Quick-Change Timing Screw



Advanced Interface

The control system features a multi-channel PLC and color touch screen interface with an intuitive, icon-based menu structure. An integrated Self Test feature for each station is standard.

ALPS is the leading North American manufacturer of high speed container leak inspection systems. Our current installed base of machines has capacity to test approximately 50 billion containers annually.