

**PACKAGING**

PLASTIC BOTTLE MANUFACTURING



HIGH SPEED



LONG LIFE



SMOOTH MOTION



LOW COST

Continuous smooth motion allows efficient and high speed inspection on the hardest-to-handle bottles

Air Logic Power Systems, LLC (ALPS) manufactures on-line leak detection equipment for the plastic container manufacturing industry. They have delivered more than 1,500 leak detection systems with the current population of machines testing in excess of 50 billion containers annually.

The ALPS Model RS-100 seals each container, by means of a probe head, and performs a pressure test to verify the integrity of individual bottles. Defective bottles are automatically ejected from the conveyor with an air jet. The machine typically tests in the range of 40 to 120 bottles per minute, depending on the container size. It is required to run 24 hours per day, 7 days per week as a production monitoring tool for the plastic bottle blow molding production line.

CHALLENGE

ALPS was using profile rail technology, which did not perform well with the required accelerations and required frequent maintenance and repairs. ALPS needed a solution that could keep up with the speeds and accelerations required, provide uninterrupted service for a longer period of time, and fit their current fixture without a costly re-design.

SOLUTION

ALPS chose the HepcoMotion PDU2 Aluminum Profile Belt Driven Unit to drive the probe head back and forth so that it moves with each bottle without disturbing the product flow.

CHALLENGE SOLVED

The patented Herculane wheel technology employed by the PDU2 provides smooth motion, and superior speeds and acceleration. In addition, the PDU2 fit their current configuration, so no redesign was required.