

Application Story

Checking Beverage Cans

The Challenge

Beverage Can manufacturers have the challenge of making millions of cans per day to exact specifications. For this, batches of cans must be checked frequently to ensure that measurements are within tolerance and there is no dimensional “drifting” of automation tooling. The gauging equipment must be fast, precise and repeatable.



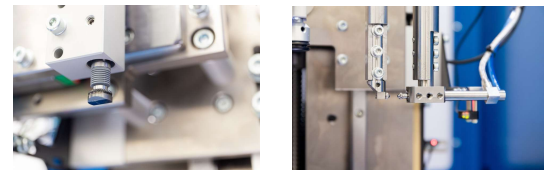
The Solution

Solartron Metrology offers accurate, reliable sensors for the Packaging industry. Customers such as Versatile Technology in Australia (www.versatiletechnology.com.au) frequently utilize Solartron Probes and Lasers for multiple reasons:

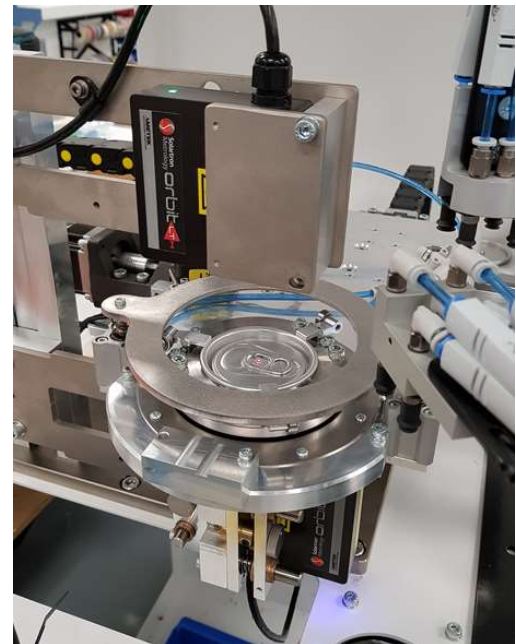
- **High Resolution:** Solartron LVDTs offer resolution up to 0.01 micron, which is excellent for checking thin materials, such as the wall of an aluminum can
- **High Repeatability:** Solartron LVDTs offer repeatability for up to 0.05 microns, meaning frequent changeouts of cans won't mean a loss in precision
- **Specialized Mini Probes:** Solartron Mini Probes and Mini Single Leaf Flexures can fit into spaces and tight gaps that other sensors cannot.
- **Digital Option:** In addition, Solartron's Digital Orbit® network offers a calibrated sensor, and enables multiple, synchronized readings into a PC or PLC
- **Network Lasers or Probes:** With Solartron's Orbit® network, probes or Lasers can easily be set up, even on the same gauge, and have synchronized outputs.
- **Customization:** Specialized tips, cable lengths, and other specific features can be added at our UK factory. With over 50 types of sensors, Solartron can meet the needs for hundreds of applications.



One probe is checking height of an aluminum can, while another checks thickness



Special carbide tip for checking top of can

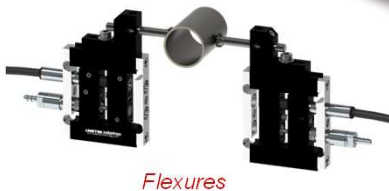


Orbit LT Lasers can be used to scan top and bottom dimensions of a can lid. Readings can easily be synchronized with Orbit®



Orbit® – The Total Measurement System from Solartron Metrology

The Solartron Orbit® Digital Measuring System provides a limitless set of measurement solutions, with numerous different interfaces to computers and PLC's.



Flexures



Block Gauges



Displacement



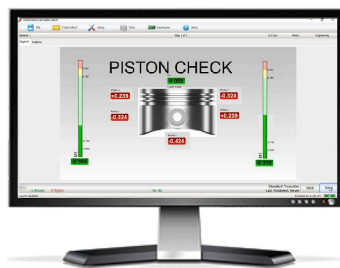
Multi Channel Wireless Gauge



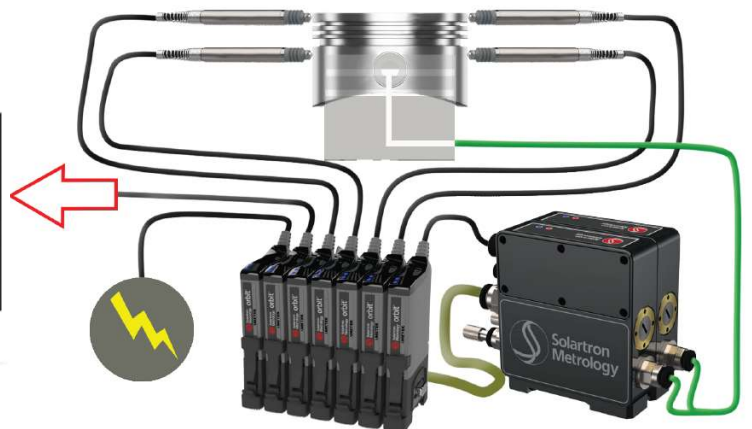
SI 8500



Bore Gauging



Orbit Gauge Software 4.0



Measurement of Piston with Air Gauging checking ID, and connected to Orbit with the Air Gauge Module. OD Checked with Digital Probes.

Digital Probes and Lasers checking an EV pouch