# Z340 Automatic Beverage Can Coating Analyser

**torus** measurement systems

The Z340 Automatic Coating Analyser has been developed to give detailed distribution analysis of the internal and external lacquer on a beverage can.

The system utilises state-of-the-art non-contact spectroscopy techniques and is suitable for both aluminium and steel can inspection.

## Measurement Features:

| Feature | Accuracy | Capability |
|---|---|---|
| Internal Lacquer | +\- 0.2 μm | 0.4 μm |
| External Lacquer | +\- 0.2 μm | 0.4 μm |
| Rim Coat Lacquer | +\- 0.4 μm | 0.8 μm |

## Technical Specification:

| Capabilities | Typical Range |
|---|---|
| Beverage Can Materials | Aluminium |
| Can Stages | Trimmed, Finished, Reformed |
| Outer Body Diameter | Ø 202 - Ø 300 |
| Trimmed Can Height | 90.00 - 190.00 |
| Finished Can Height | 90.00 - 190.00 |

## Gauge Features:

Internal Lacquer Thickness/Weight

External Varnish Thickness/Weight/OV (Over ink)

Rim Coat Lacquer Thickness/Weight

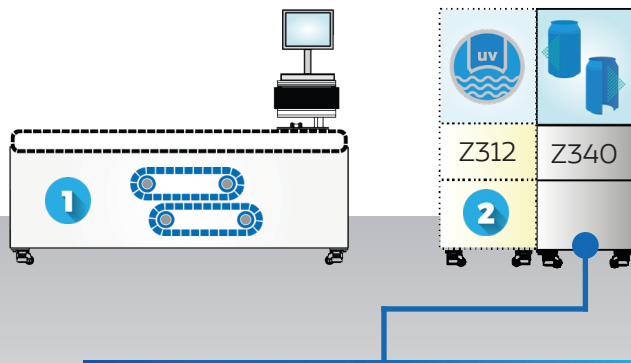Reverse Wall Inspection

## Benefits to your business

> Dual system equppied with two spectrometers - **Visible light and Near Infrared (NIR) light,** enables the OV/over ink inspection

> Brand-new fibre setup creating a smaller spot size to optimise measurement of rim coat and reverse wall, both with dedicated tooling to enable precise location of measurement positions on both features

> Enables monitoring and control of the lacquer distribution

> Absolute, not inferred, lacquer thickness measurement

> High positional accuracy, ensuring true location of measurement points

> Multi-size capability so no need for change tooling

> Traceable measurements to NIST standards

Click **here** to view the video

## Also available in
## Floor-Standing Semi-Automatic

**ELECTRICITY**
100-240 Volts / 50-60 Hz

**COMPRESSED AIR**
5 bar / 73 PSI

**WEIGHT**
580kg

**DIMENSIONS**
(W) 3495mm x (H) 1679mm
(D) 1060mm

# **Customise** your Gauge

Our modular gauge setups are unique and allow you to customise your gauge as and when you require, giving you the flexibility to ensure you have a total quality solution.



**1** Start with the standard **Z340 Automatic Beverage Can Coating Analyser**

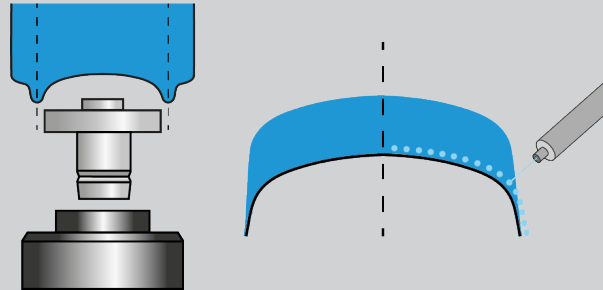**2** Add any of the detailed optional modules at any time.

## **1** Multi-Lane Input Conveyor

- Lane capability typically 24 x 211 body dia. can.
- Single lane - 6 options available.
- Automatic in-line configuration for each lane available.

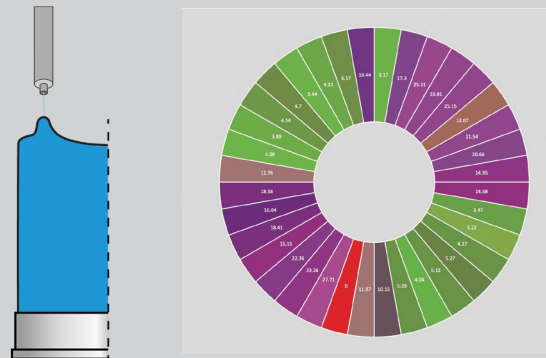## **2** Vision Module (For more information see Z312)

- Quality percentage of UV Base RIM Coat (BRC) lacquer presence.
- Optional Z312 Vision Module available for internal spray gun recognition (ISG).

## **3** Reverse Wall Lacquer Distribution (Manual Loaded Tooling)
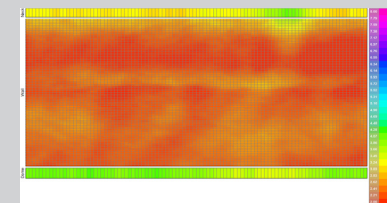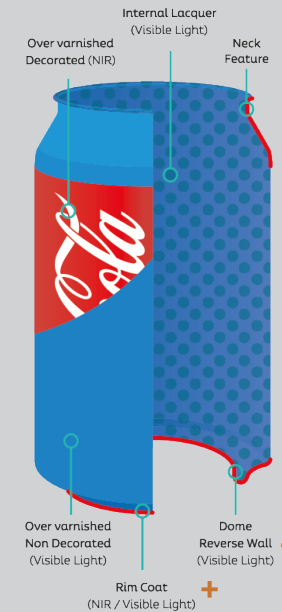


Manually sectioning the dome area of the straight walled can, enables the operator to collect complete dome profile and reverse wall lacquer distribution analysis.
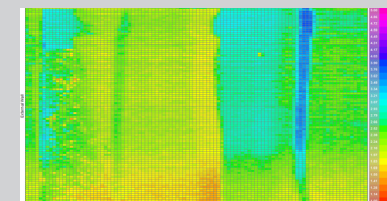
## **4** Base Rim Coat (BRC) Lacquer Distribution



By using the latest Torus inspection techniques, detailed base rim coat distribution data can be atained.

## Standard and Additonal Features



- Over varnished Decorated (NIR)
- Internal Lacquer (Visible Light)
- Neck Feature
- Over varnished Non Decorated (Visible Light)
- Rim Coat (NIR / Visible Light)
- Dome Reverse Wall (Visible Light)

## Detailed Colour Maps



Internal Lacquer Distribution Map



External OV Distribution Map