

Z301 Semi-Automatic Universal (Trimmed and Finished) Can Inspection Gauge



The Universal Trimmed & Finished Can Inspection Gauge from Torus Measurement Systems defines the standard for dimensional of beverage/beer cans.

Measurement Features:

Trimmed Can Features		Accuracy
Can Height	1-16 positions	+/- 0.010 mm
Top Wall Thickness	1-16 positions	+/- 0.001 mm
Upper Mid Wall Thickness	1-16 positions	+/- 0.001 mm
Lower Mid Wall Thickness	1-16 positions	+/- 0.001 mm
Wall Step		
Dome Depth	Single Point	+/- 0.010 mm
Finished Can Features		Accuracy
Can Height	3 positions	+/- 0.010 mm
Flange Width	4 positions	+/- 0.010 mm
Internal Neck Diameter	2 positions	+/- 0.010 mm

Technical Specification:

Trimmed Can Capabilities	Typical Range
Can Range	Ø 202 - Ø 307 body diameters
Can Materials	Aluminium/Steel
Can Height Range	87 - 210 mm
Can Dome Depth Range	9 - 13 mm
Can Wall Thickness Range	0 - 1 mm

Technical Specification:

Finished Can Capabilities	Typical Range
Can Range	Ø 202 - Ø 307 body diameters
Can Materials	Aluminium/Steel
Can Height Range	87 - 210 mm
Can Flange Width Range	1.5 - 2.5 mm
Can Internal Neck Dia. Range	Ø 200 - Ø 209 body diameters

Repeatability Performance Data - available upon request

Benefits to your business

- > Speed and accuracy
- > Confidence in your production process
- > Modular concept to cater for future upgrades
- > Cost-effective upgrade path for additional modules to be added
- > Trimmed and finished can inspection in one cabinet saves operator time, resource and space
- > Future upgrade path to automatic

ELECTRICITY
100-240 Volts / 50-60 Hz

COMPRESSED AIR
6 bar / 87 PSI

WEIGHT
550kg Max

DIMENSIONS
(W) 1390mm x (H) 1780mm
(L) 2030mm

[Click here to view the video](#)

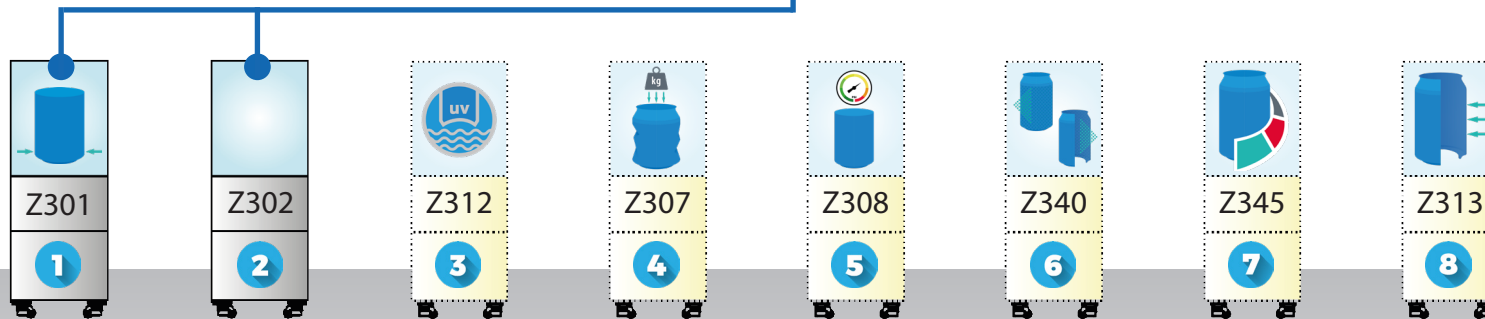


Customise your Gauge

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 **Z301 Trimmed Can Gauge** and the **Z302 Finished Can Gauge**

2 Add any of the below optional modules at any time.



1 **Additional Options**

- Outer Body Dia. Inspection module - 1-8 positions
- Accuracy: +/- 0.025mm

2 **Auto Can Rotation/Reform Scanning Tooling**

- For in-line inspection
- Increased measurement data for multiple radial positions
- For reform measurement

3 **Vision Module (For more information see Z312)**

- Quality percentage of UV Base RIM Coat (BRC) lacquer presence

4 **Axial Load Module**

- Determines the maximum axial load force that can be applied prior to container failure
- Accuracy: +/- 10N

5 **Dome Growth/Dome Reversal Module**

- Provides detailed information about the overall change in length of can when pressure is applied and subsequently removed
- Accuracy: +/- 0.10mm
- Accuracy: +/- 0.05 bar

6 **Lacquer Distribution Module (Vision/NIR)**

- Internal/External Lacquer Distribution, finished and straight walled
- Base RIM Coat (BRC) - (manually loaded tooling)
- Reverse Wall Lacquer Distribution (manually loaded tooling)
- For accuracies, see Z340

7 **Colour Inspection Module**

- Quantifiable colour measurement via the industry recognised X-Rite Ci64
- Barcode verification option

8 **Enamel Rating Module**

- High accuracy "rating" system - Accuracy: +/- 0.1mA
- Hi-Res system - Accuracy: +/- 0.02mA