

Z307 Semi-Automatic Destructive Gauge



Torus' Z307 series defines the standard for destructive testing and inspection.

The Z307 Axial Load module determines the maximum axial load force that can be applied prior to container failure, within a short cycle time.

The Z308 Dome Growth/Dome Reversal module provides detailed information about the overall change in length of the can when pressure is applied and subsequently removed. The system has programmable internal pressure capability to meet each customer's exact needs for dome growth. After dome growth, the can sample can be reversed to find the maximum pressure the sample is able to withstand before failure (dome reversal).

Gauge Features:

- Available for both straight walled and finished beverage cans
- Industry standard location plattens for component neck support
- Selectable crush speed
- Factory set patterns to ensure parallelism between gauge tooling faces

Benefits to your business

- > **Z307:** Multi-size capability with no change tooling for both necked and straight walled can inspection
- > **Z307:** Short cycle times
- > **Z307:** Customer-specific data outputs (kgf, lbf, newtons etc)
- > **Z307:** High-accuracy axial load cell technology
- > **Z308:** Multi-size capability with no change tooling for swing line operations
- > **Z308:** Customer-specific data outputs (psi, kpa, lbs etc)
- > **Z308:** High-accuracy pressure sensor technology

Measurement Features:

Feature	Accuracy
Axial Load	+/- 10N
Dome Growth	+/- 0.10 mm
Dome Reversal	+/- 0.05 bar

Technical Specification:

Capabilities	Typical Range
Can Materials	Aluminium
Can Stages	Finished, Straight Walled
Can Finished Height Range	87 - 190 mm
Can Outer Body Diameter	Ø 202 - Ø 307
Internal Neck Diameter	Ø 200 - Ø 209
Axial Load	≤ 2000 N
Dome Growth/Dome Reversal	≤ 930 kPa

ELECTRICITY
100-240 Volts / 50-60 Hz

COMPRESSED AIR
6 bar / 87 PSI

WEIGHT
410 kg

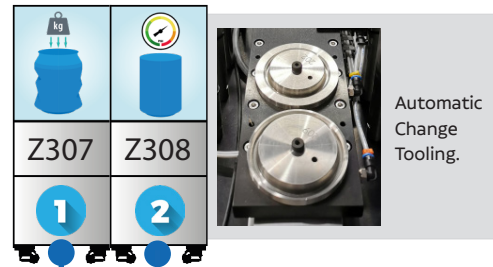
DIMENSIONS
(W) 1390mm x (H) 1780mm
(L) 1520mm

[Click here to view the video](#)



Customise your Gauge

Option 1



Standard Setup

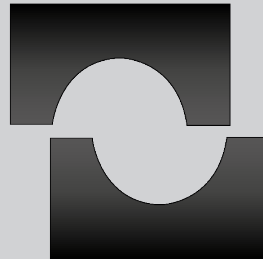
1. Axial Load Module with Automatic Change Tooling - **as standard.**
2. Dedicated Body Diameters - **as standard.**

Torus have got you covered for all neck size production ranging from $\varnothing 200$ - $\varnothing 209$ with no change parts within a single module.

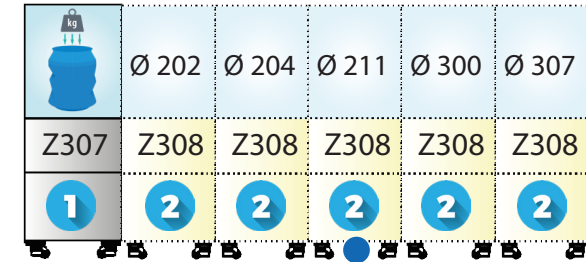
Z308 Option

Interchangeable Jaws

Ideal for swing line operations, the Z308 Dome Growth/Dome Reversal module is available with manual interchangeable jaws to cover multi-body diameter ranging from $\varnothing 202$ - $\varnothing 307$.



Option 2



Dedicated Body Diameters

1. Axial Load Module with Automatic Change Tooling - **as standard.**
2. Dedicated Body Diameters with Dedicated Modules - **Optional.**

For dedicated body diameter production lines, the Torus modular concept is able to cover $\varnothing 202$ - $\varnothing 307$ body diameters (up to but not limited to) with a dedicated module for each with no change parts.