Automatic Beverage Can Destructive Gauge

Z307

INDUSTRIAL PHYSICS

Protecting Product Integrity

Automatic Beverage Can Destructive Gauge

Brought to you by Torus, the Z307 Automatic Beverage Can Destructive Gauge defines the standard for destructive testing and inspection.

The gauge is also available as a Floor-Standing Semi-Automatic version.

The **Z307 Automatic Axial Load** module (standard) 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 (additional option) 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).

Standard Set Up

As standard, the Z307 Automatic Beverage Can Destructive Gauge is complete with:

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. Axial Load Module with Automatic Change Tooling

3. Dedicated Body Diameters

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

Additional Options

Customize your gauge by adding the below additional options:

Option 1 - Standard Z307 with Z308 module

1. Dome Growth/Dome Reversal module Z308

- 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

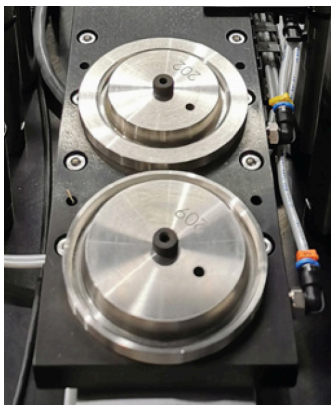
2. Z308 Option - Interchangeable Jaws

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 Ø 202 - Ø 307.

Option 2 - Dedicated Body Diameters

1. Dedicated Body Diameters with Dedicated Modules

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



Automatic Change Tooling

Gauge Features:

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

Measurement Features:

Axial Load	Accuracy: +\- 10 N
Dome Growth	Accuracy: +\- 0.10 mm
Dome Reversal	Accuracy: +\- 0.05 bar

Technical Specification:

Can Materials	Aluminum
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
Power	100-240V / 50-60Hz
Compressed Air	6 bar / 87 PSI
Weight	650kg
Dimensions	(W) 4124 mm x (H) 1700 mm x (L) 1060 mm (with 4 lane conveyor)

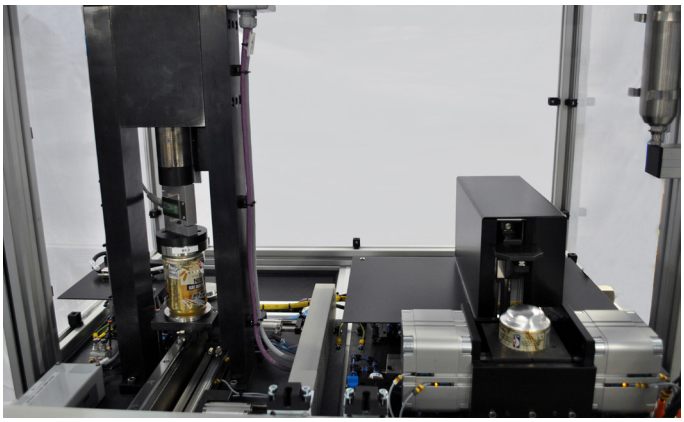
Disclaimer
The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Benefits:

- **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

Ordering Information:

Article Number	Article Description
Z307	Automatic Beverage Can Destructive Gauge



Z307 Axial Load and Z308 Dome Growth/Dome Reversal

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