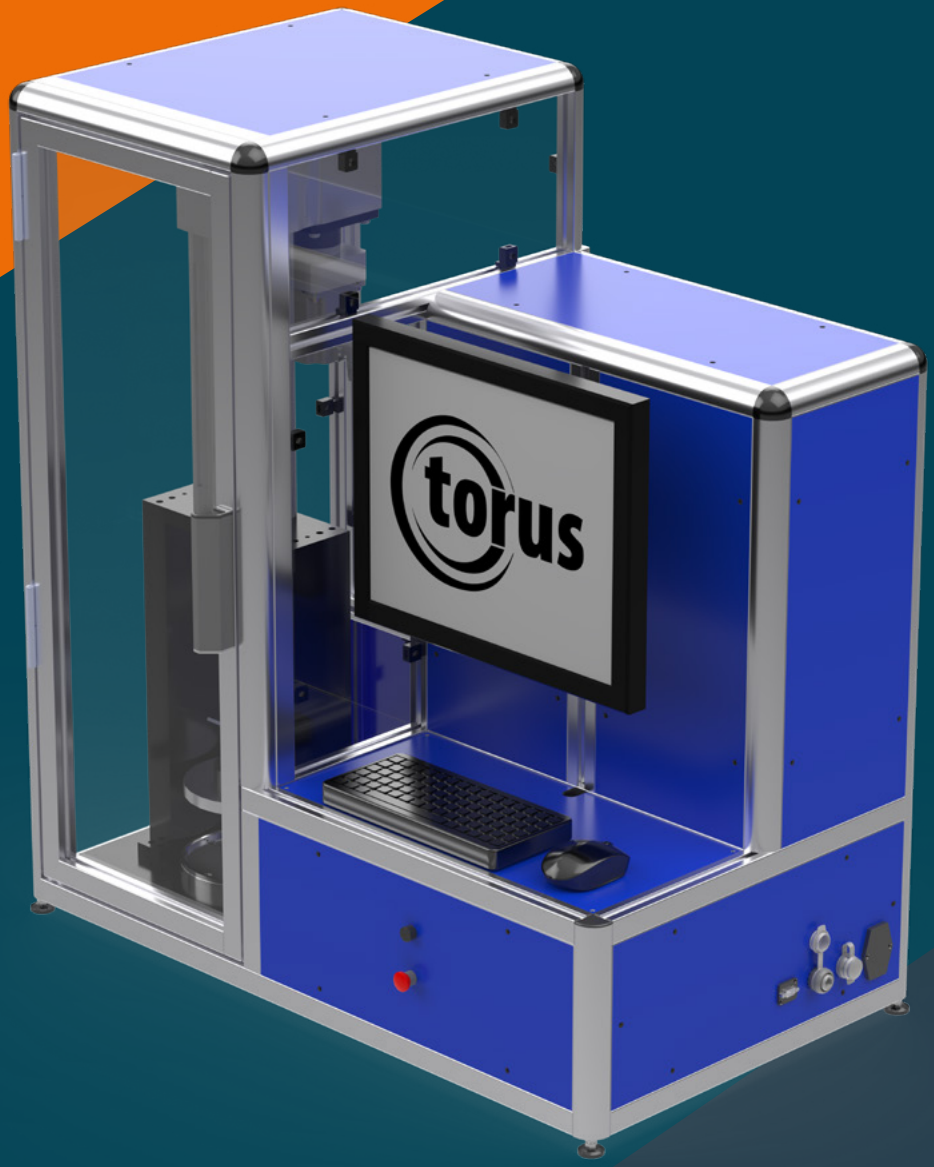

Semi-Automatic Bench Top Can Axial Load Gauge

Z307

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Semi-Automatic Bench Top Can Axial Load Gauge

The Torus Z307 Semi-Automatic Bench Top Can Axial Load Gauges determines the maximum axial load force which can be applied prior to container failure, within a short cycle time.

Precise axial load testing for metal packaging

The Torus Z307 Semi-Automatic Bench Top Axial Load Gauge is a high-precision tool designed to meet the rigorous demands of the beverage, food, and aerosol can manufacturing industries. With its advanced capabilities, the Z307 provides accurate and reliable measurements of maximum axial load force, ensuring containers meet stringent performance and quality requirements.

Essential for ensuring container strength and performance

Whether you operate a small-scale facility or a large manufacturing plant, axial load testing is essential to ensure the structural integrity of your containers. The Torus Z307 is built to deliver precise results, giving you the confidence that your cans and containers can withstand vertical compression forces during production, storage, and transportation without collapsing.

The Can Axial Load Gauges test

The Z307 accurately measures the buckle and column strength of cans, determining the maximum axial load force they can endure before failure. The test is initiated as soon as the advanced mapped load cell detects axial load application, and results are displayed on-screen and exported as required for easy analysis and reporting.

Technical Specification:

Can Materials	Aluminum / Steel
Can Stages	Finished, Straight Walled
Can Finished Height Range	Typical Range 25 - 250 mm
Can Outer Body Diameter	Typical Range 53 - 153 mm Ø 202 - Ø 300 (Beverage) Ø 202 - Ø 603 (Food) Ø > 35 mm (Aerosol) **Additional Capacity on Application*
Internal Neck Diameter	Ø 200 - Ø 209 (Beverage) Ø 25.4 mm **Additional Capacity on Application*
Axial Load	10 kN
Power Supply	100 - 240 v / 50 - 60 Hz
Weight	50 kg
Dimensions	(W) 956 mm x (H) 1170 mm x (D) 550 mm

Measurement Feature:

Axial Load	The maximum force at which the container fails/collapses has an accuracy level of +/- 10 N
Universal Gauge	Applicable for finished or trimmed cans, including food and beverage

How the Torus Z307 improves your quality assurance process

Designed for accuracy, efficiency, and ease of use, the Z307 enhances your quality assurance process with the following features:

Accurate axial load measurement	Determines the maximum force at which containers collapse with a precision of ± 10 N
Versatility across industries	Compatible with beverage, food, and aerosol cans, supporting both straight-walled and finished containers
Optimized performance	Features selectable crush speeds and factory-set patterns to ensure perfect parallel alignment of tooling faces during testing
Reliable, traceable results	Proven contact measurement technology ensures consistent and accurate results 24/7
Flexible testing configurations	Available as a semi-automatic bench-top system or in floor-standing and fully automated in-line options to suit various operational needs

Ordering Information:

Article Number	Article Description
Z307	Semi-Automatic Bench Top Can Axial Load Gauge

Benefits:

- Multi-size capability with quick change tooling
- Extremely fast measurement cycles
- Short cycle times due to the latest high-performance stepper motors (selectable crush speed)
- Customer-specific data outputs (kgs, lbf, newtons)
- High-accuracy axial load cell technology
- Universal gauge: Applicable for finished or trimmed cans, including food, aerosol and beverage
- Automatic data transfer option

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.

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