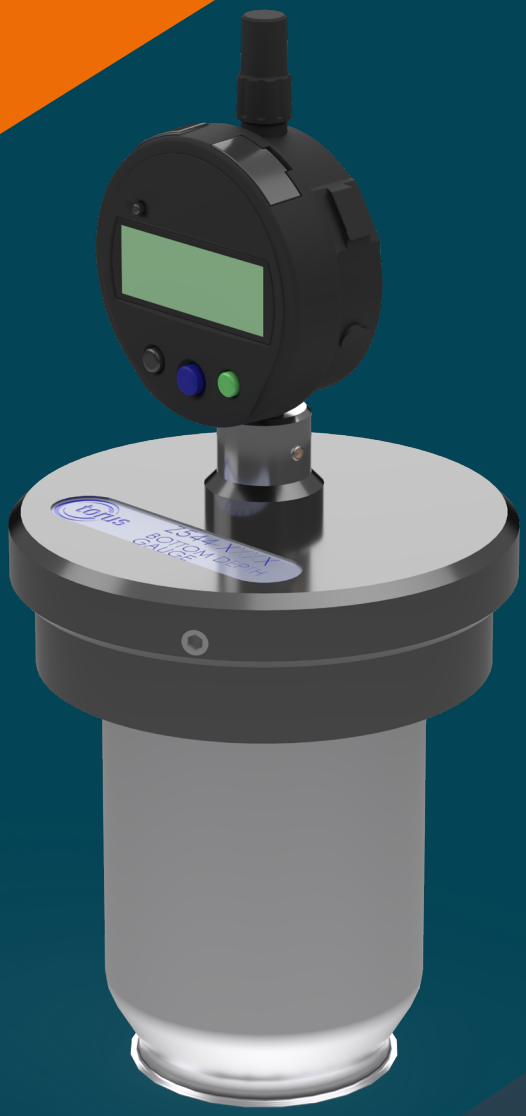

Manual Dome Depth Gauge

Z544

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Manual Dome Depth Gauge

The Torus Z544 Manual Dome Depth Gauge is the ideal quality control tool for measuring the dome depth of beverage cans.

Brought to you by Torus, our specialist measurement, automation, and metrology brand, the Z544 Manual Dome Depth Gauge accurately measures a can's dome depth.

Through a simple change of rings (included with the gauge), the Z544 is designed to measure the depth of a variety of can diameters, including the bottom of beverage, food and aerosol cans.

Detailed dome depth analysis

The Torus Z544 is highly accurate and so easy to use. It offers you consistent dome depth measurements with a resolution of 0.01 mm and an impressive repeatability and reproducibility (R&R) of 0.030 mm.

Our Manual Dome Depth Gauge measures the dome depth perpendicular to the centerline of the vertical axis of your cans. You can set a tolerance conformance range so that the measurements are marked as a 'pass' or 'fail.'

Meticulous Mitutoyo metrology

Our can dome depth gauge comes equipped with a digimatic Mitutoyo dial test indicator (DTI).
The DTI is centrally mounted, making it easy for you to measure the deepest position of the can's dome.

Simple, certificated calibration

Making sure that your dome depth gauge is reliably accurate is a simple, stress-free process. You can calibrate it manually, as often as you like, using an optional qualification master if requested.

Technical Specification:

Component Materials	Aluminum / Steel
Component Shape	Round
Component Stage	Finished, Trimmed, Seamed & Reformed
Component Dome Depth Range	0 - 12 mm
Component Outer Diameter Range	53 - 83 mm (202 to 307)
Can Type	Beverage, Food and Aerosol cans
Accuracy	+/- 0.030 mm
R&R	0.010 mm
Weight	Case 1.21 kg Instrument 0.72 kg
Dimensions	Case (W) 430 mm x (H) 380 mm x (D) 130 mm Instrument (W) 100 mm x (H) 140 mm x (D) 100 mm

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Why is measuring a can's dome depth important?

An accurately measured dome is essential to ensure the integrity of a beverage can, to distribute pressure and prevent bulging. It's crucial for canned beverages like soda and beer, which contain dissolved carbon dioxide gas that create internal pressure.

The concave design of the dome resists outward force, preventing the can from deforming, which is particularly problematic in hot conditions. In order for the dome to do its important job, you need to ensure the can's dome depth is uniformly accurate. That's where the Torus Z544 comes in!

Ordering Information:

Article Number	Article Description
Z544-9.7.1	Manual Dome Depth Gauge

Bottom depth gauge - optional upgrades

If you want to upgrade the capability of your Torus Z544 Manual Bottom Depth Gauge, then consider investing in the following optional extras:

- Torus GaugeXplorer data collection and analysis software
- A bespoke Torus workstation
- A qualification master
- An Interface cable

Benefits:

- Low-cost, high quality manual dome depth gauge
- Reliably accurate to +/- 0001"/.001mm resolution
- Renowned digimatic Mitutoyo dial test indicator (DTI)
- Automated measurement and data transfer option
- Multiple software options for data export
- Comes with protective case and UKAS calibration certificates
- World class GR&R of 0.010 mm

Disclaimer
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