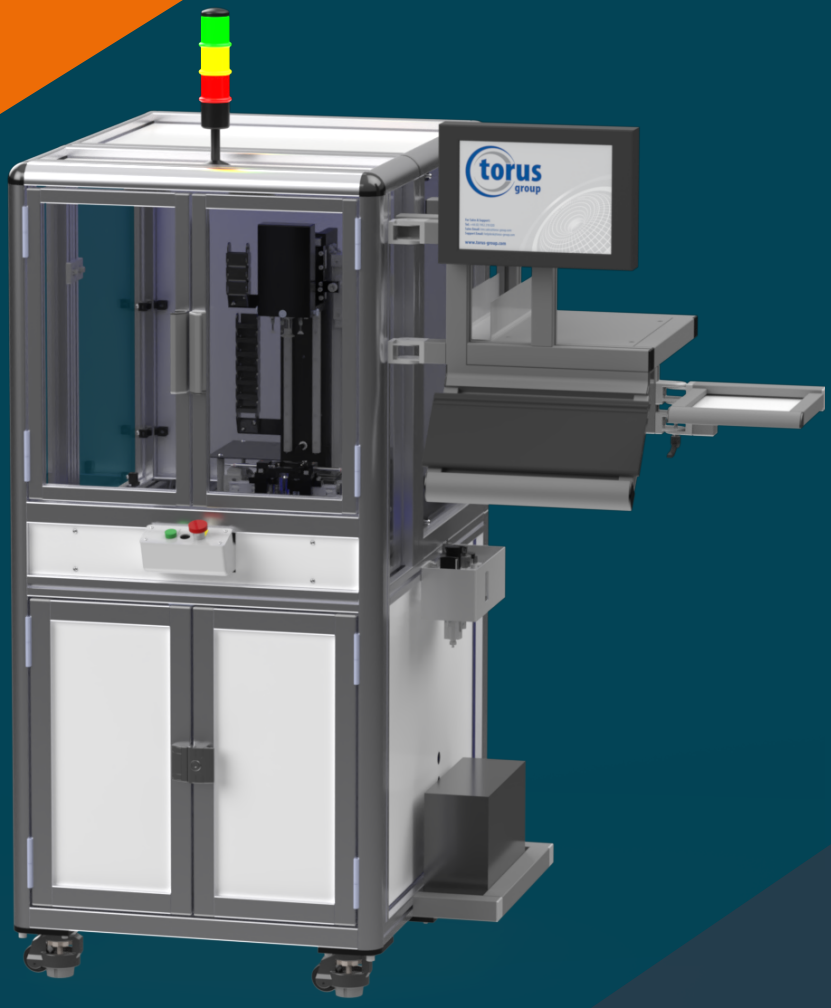

Semi-Automatic Wall Thickness Analyser

Z314

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Semi-Automatic Wall Thickness Analyser

Brought to you by Torus, the Z314 Semi-Automatic Wall Thickness Analyser defines the standard for dimensional inspection.

The Z314 measures cups and straight walled cans' wall thickness. Utilising a single point wall thickness transducer based on industry standard Torus Z301 Front End Gauge. Inspection programmes can be created for multiple component types and sizes, including cups, straight walled cans and optionally, 2 piece bottle necking progressions.

Completely Modular

Our modular gauge setups are unique and allow you to customize your gauge as and when you require, giving you the flexibility to ensure you have a total quality solution.

Add any of the modules at any time.

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. Blank Station for Future Upgrades

- Blank station for future upgrades

3. Lacquer Distribution Module (Visible/NIR) Z340

- Internal Lacquer Distribution, finished and straight walled Accuracy: +/- 0.0002mm
- Visible is for clear lacquer inspection
- NIR is for opaque lacquer inspection

5. Enamel Rating Module Z313

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

Technical Specification:

Can Body Diameter Range	45 mm - 100 mm Ø
Cup Range	Up to 115 mm Ø
Measuring Envelope Diameter	12 mm - 100 mm Ø
Vertical Height Capability (Automatic)	16 mm - 220 mm
Wall Thickness	0 mm - 0.5 mm
Power	100-240V / 50-60Hz
Compressed Air	5 bar / 73 PSI
Weight	360kg Max.
Dimensions	(W) 1102 mm x (H) 1679 mm x (L) 1100 mm

Measurement Features:

Wall Thickness	Can Accuracy: +\- 0.001 mm	Cup Accuracy: +\- 0.002 mm
Mid Wall Thickness	Can Accuracy: +\- 0.001 mm	Cup Accuracy: +\- 0.002 mm
Average / Range / Max / Min	Can Accuracy: +\- 0.001 mm	Cup Accuracy: +\- 0.002 mm

Ordering Information:

Article Number	Article Description
Z314	Semi-Automatic Wall Thickness Analyser

Benefits:

- Direct correlation with industry standard Torus Z301 Front End Gauge
- Our GaugeXplorer software uses sophisticated motion control, which allows tooling to be adjusted quickly, removing the need for extensive changeover tooling
- A single high-accuracy measuring transducer with submicron resolution is used to collect the measurement data for processing by the GaugeXplorer software at the appropriate position
- On-screen graphical displays of the wall profile, clearly show thick and thin wall areas and transition steps produced by the Punch Tool and Ironing Ring

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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