



Automatic Total Quality Laboratory

TQ Lab

Automatic Total Quality (TQ) Lab

Brought to you by Torus, the Automatic TQ Lab is a fully configurable system capable of measuring Thread, Body, Thickness, Internal Diameter, Top Load, Volume, Weight and Burst Pressures.

Benefits:

- Worlds only Fully Automatic Bottle Inspection Laboratory
- Providing over 8,000 measurement data points across the full range of Dimensional and Destructive module options
- All required inspection features completed in one system, reducing testing time, equipment requirement and floor space
- GaugeXplorer operating system, enables fast part program generation completed on the gauge, Industry Standard and programmable features can be renamed to local measurement feature requirements at customers facility
- CSV data output and flexible formatting for input in to local data handling/control systems at customers facility
- Remote support package, which includes automatic gauge monitoring and reporting back to Torus for proactive response
- Measurements traceable and certified to UKAS standards, with internal Torus annual calibration recall system, for continued measurement assurance
- Configurable conveyor options, for batches of up to 50 components, with interchangeable pallet options specific to the customers bottle portfolio

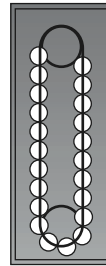
Completely Modular

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.

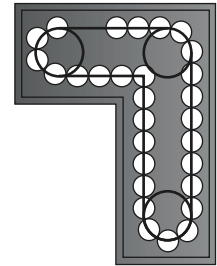
Choose your conveyor

Choose from a range of conveyor options below:

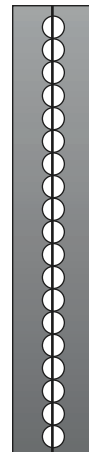
Standard Conveyor
20 pallet conveyor



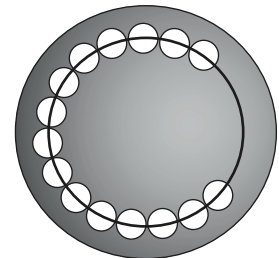
L-Conveyor
30/40/50 pallet options



In-Line System
Auto Load conveyor



Index Conveyor



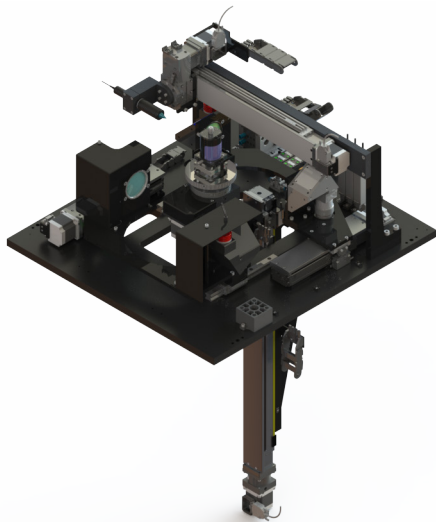
Choose your modules

Finally choose your modules (a minimum of a 2 station configuration through to a maximum of 4)

1. Thread, Body and Thickness Module B302

- Automatic Thread Start Alignment Routine
- Automatic Body Alignment Routine
- Industry Standard Neck Diameters & Heights
- Programmable Neck Diameter & Heights
- Programable Body Diameters & Heights
- Programable Body Panel Length
- Min & Max Form & Diameter Body Diameters
- Shoulder Diameter & Heights
- Perpendicularity to Sealing & Base Surface
- Panel Deviation (Bulge)
- Overall Height & Base Clearance
- Concentricity & Linear Distance Capability
- Wall, Shoulder, Base & Standing Thickness
- Thickness Sensor Options 0.04 – 8.00mm
- Thermal Stability Capability
- Over 7000 Measurement Data Results Per Bottle

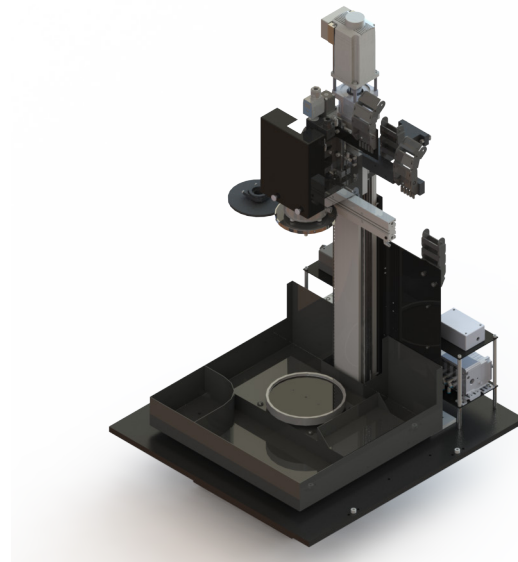
Also available as: Semi-Automatic B302 Gauge



2. Top Load, Volume and Weight Module B304

- Integrated Load, Volume & Weight within one Module
- Automatic top of finish (TOF) locator routine
- Top Load completed wet or dry
- Wet Top Load completed in cycle with volume
- Load at 'X' Deflection Distance Capability
- Deflection Point Measurement
- Brimful (Overflow) & Fill Height Volume
- Vacuity Measurement
- Empty Bottle Weight
- Water Temperature Compensation System
- Adjustable test speeds up to 510mm / min
- Adjustable deflection up to 10.0mm
- Scan until dip test functionality for reduced cycle time
- Continuous Water Pressure Monitoring System
- Hard & Soft Water Management Packages

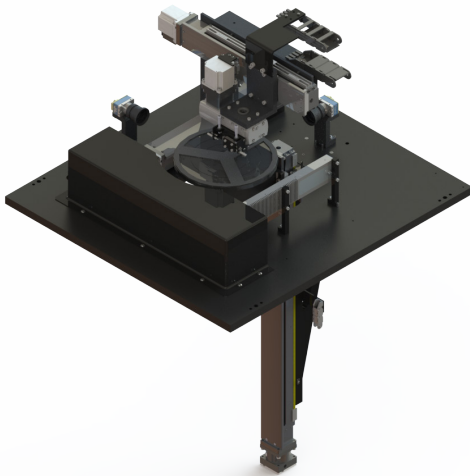
Also available as: Semi-Automatic B304 Gauge



3. Internal Diameter Module B309

- Non-Contact Integrated Internal Diameter Module
- Automatic Bottle Locator Routine
- Internal Diameter Depth Position Selectable
- Up to 10 Internal Diameter Depth Measurements
- Programmable number of rotation position measurements
- Vertical Internal Bore Scanning Capability

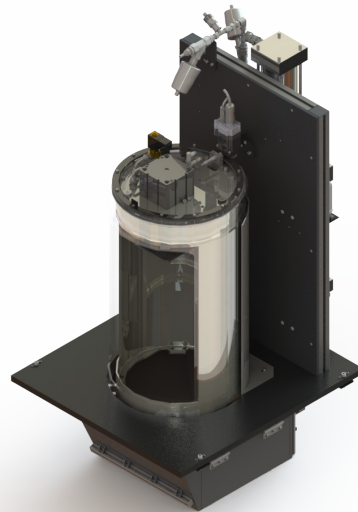
Also available as: Semi-Automatic B309 Gauge



4. Bottle Burst Module B303

- Integrated Bottle Burst Module
- Burst Presssure
- Expansive Volume & Percentage
- Yield Point Pressure & Volume
- Pressure Hold Out Functionality
- Test Time Functionality
- Programmable Ramp Pressures
- Programmable Ramp Speeds
- Programmable Pressure Hold Periods
- Burst Mode Option for fast cycle times
- Live graphical display screens for Pressure vs Time vs Volume
- Continuous Water Pressure Monitoring System
- Water Management & Filter Control System

Also available as: Semi-Automatic B303 Gauge



Technical Specification:

Component Materials	PET, PP, TRITAN, PEF, HDPE
Component Neck Finish	Thread, Continuous thread, split thread, PCO, SP, ROPP, Snap, Clinch
Component Shapes	Round, Round with petals, Oval, Square, Non-Symmetrical, Off-centre neck
Component Height Range	80 - 400 mm
Component Gripper Pickup Height	75 – 395 mm
Component Outer Body Diameter Range	Ø 15 – Ø 160 mm
Component Internal Neck Diameter Range	Ø 15 – Ø 45 mm
Component Outer Neck Diameter Range	Ø 18 – Ø 54 mm
Component Weight Range	5 - 3000 g
Power	100-240V / 50-60Hz
Compressed Air	6 bar / 87 PSI
Water	1-2 Bar / 60-120ppm / 0.2mS-0.8mS
Dimensions	(W) 2930 mm x (H) 2280 mm x (L) 2020 mm

Ordering Information:

Article Number	Article Description
TQLAB	Automatic Total Quality Laboratory

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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