SENCON
SENSING • TESTING • GAUGING

Benchmark™

Flange Thickness Gauge

Measures the flange thickness on necked cans

The Benchmark Flange Thickness Gauge is an easy to use semi-automatic benchtop gauge for measuring the flange thickness on necked beverage cans. The flange is the single most important physical feature on the can body, it is the critical interface between the can body and the lid. Flange Thickness is an essential measurement for the integrity of the can.



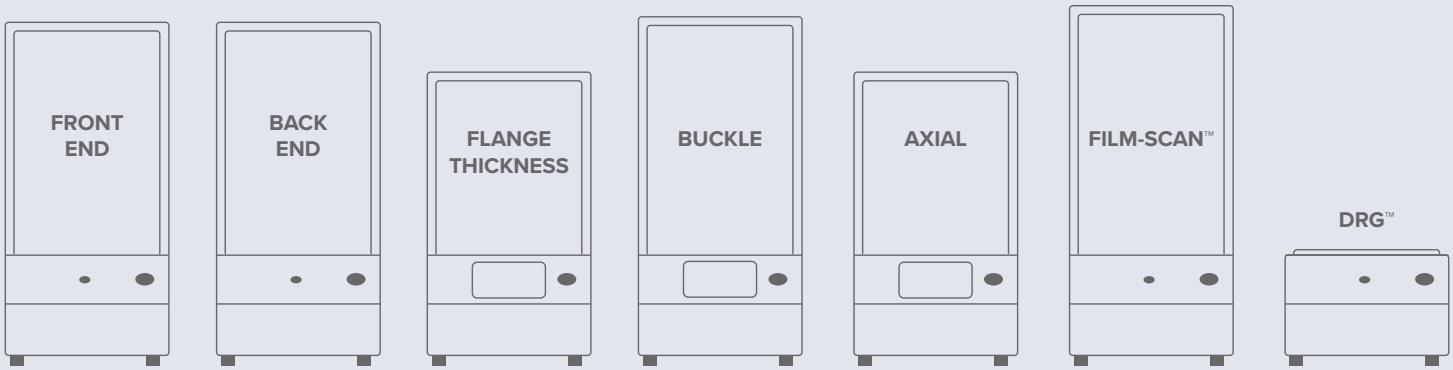
- **Short cycle time**
- **Capable of taking multiple slices/measurements around the flange**
- **Accommodates multiple can and neck sizes with quick change, tool-free inserts**
- **Supports flange angles from -10° to +16°**
- **Results are displayed on screen, printed or sent to the SPC**
- **Sencon Touch™ – See. Control. Touch. Easy to use, language free, touchscreen HMI**

Ordering Information

CODE	DESCRIPTION	CAN SIZE	NECK	HEIGHT
SI6600	Benchmark™ Flange Thickness Gauge	Up to 214 (73mm)	200 to 209 (52mm to 67mm) - quick-change, tool-free-inserts	Up to 205mm (8.07")

Optional Extras

CODE	DESCRIPTION	
CUSTOM	Custom Change Parts	Custom sized neck inserts
SX1000	Data-Bridge Software	Adds data logging functionality to gauges with only an RS232 serial interface



BIG ON CAPABILITY, SMALL ON SIZE

The Benchmark™ range of semi automatic benchtop gauges for the modern can plant

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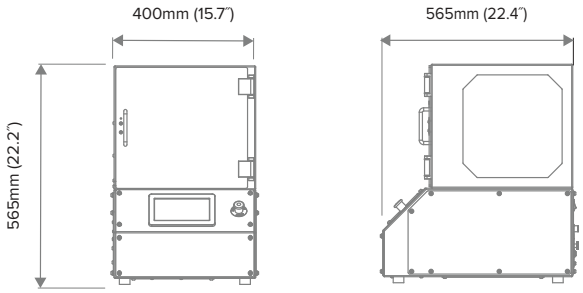
TECHNICAL SPECIFICATIONS

Can Material:	Aluminum and Steel
Cans Accepted:	**Body Diameter:** Up to 73mm (2.87”) nominally 214 diameter **Neck size:** from 52mm to 57mm (2.24”) nominally 200 to 209 **Can Height:** 205mm (8”)
Maximum Batch Size:	30
Measurement Features:	• Multiple slices can be measured - user defineable up to 16 points • Automatically adjusts for different can heights • Up to 20 different test procedures (user programmable) with test type distinctions for production, setup, recheck, etc. • User-programmable pass, fail and warning bands settable for each procedure • Password protected user levels (operator, supervisor and engineer) to protect settings from unauthorised changes
Voltage:	100-240 V
Temperature Range:	10°C to 40°C (50°F to 104°F)
Relative Humidity:	0% to 80% non-condensing
Ingress Protection:	IP44
Dimensions:	
Weight:	45kg (99.2lb)
Controller:	Integrated 9” high resolution touch-screen Icon based HMI (no language dependency)
Measurement Reporting:	Tabular results page Results for most recent 50 batches stored on gauge Batch results can be output via RS232 port
Inputs and Outputs:	RS232 (baud rate, stop bits, etc. configurable)
Loading:	Manual loading and unloading
Compliance:	CE marked: complies with relevant EU product directives UKCA marked: complies with relevant UK product regulations
Calibration:	Annual recalibration / re-validation of gauge accuracy is strongly recommended

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BENCHMARK™ FLANGE THICKNESS GAUGE

PRECISION MEASUREMENT: The SI6600 Flange Thickness Gauge can take multiple measurements around the flange at user-defined distances from the cut edge. It delivers highly repeatable results, with a measurement range of 0 to 0.3 mm and an accuracy of ±2 µm. Users can define multiple measurement points to suit their inspection requirements.

VERSATILITY BUILT IN: Quick-change, tool free inserts allow for rapid changeover between different neck diameters with all parts conveniently stored within the gauge.

ROBUST AND RELIABLE: Engineered to minimise operator influence, the SI6600 features a spring-loaded gimbal to ensure can concentricity during rotation, delivering consistent accuracy across shifts. Integrated sensors prevent measurements unless a can is correctly loaded, further ensuring reliable results.

FLEXIBLE USER CONTROL: The integrated 9” color touchscreen HMI offers a clear, icon-driven interface for easy operation, setup, and data viewing. Its wide viewing angle ensures information is easily readable from different positions.

COMPREHENSIVE DATA MANAGEMENT: Results are displayed on-screen, with batch tracking for up to 30 datasets. User-defined pass/fail limits and password-controlled access protect data integrity. Export functionality via RS232 enables further analysis.

A CRITICAL MEASUREMENT

Flange thickness is considered the single most important physical feature on a beverage can body because it serves as the critical interface between the can and the lid. Fillers rely on accurate measurements to correctly setup their seamers; any discrepancy can compromise can integrity and lead to failure.

- **False Seams:** Over estimating flange thickness can lead to the seamer being set too loose, leading to the body and end hooks failing to interlock correctly. This can result in ‘clam shell’ openings or ‘vee’ defects, leading to immediate product leakage.
- **Body Wall Fractures:** Underestimating flange thickness often leads to seamers being set too tight. This over compression, results in deep impressions that can fracture the metal and compromise the container’s pressure rating.
- **Seam Thickness Variations:** To maintain a reliable seal around the entire circumference of the can, peripheral variations in flange thickness must be held to less than 0.05 mm. Anything higher introduces seal instability.

Traditionally a quality control ‘blind spot’, the Benchmark™ Flange Thickness gauge now provides +/- 2 micron accuracy to help meet these critical integrity standards.

WORLDWIDE SUPPORT YOU CAN TRUST

We are committed to providing the best customer support worldwide with service engineers based in North and South America, Europe and Asia backed up with technical support from experienced industry specialists based at three technical support centers – you can trust Sencon.

Technical support is easily accessible through our ‘Quick Assist’ QR codes which offer support via WhatsApp*, email, web chat and telephone. Additionally, our online knowledge base provides support resources for all Sencon products.

***only available in Europe, Asia, Africa and Oceania**



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