SENCON
SENSING • TESTING • GAUGING

Benchmark™

Benchtop Back End Gauge



Non-contact measurement of key dimensions on finished (necked) beverage cans

The Benchmark™ Back End Gauge (Finished Can Gauge) does not need any change parts for different can heights. Standard body and neck diameters are handled with simple, drop-in fixtures.

- **More critical features measured with optical scanning**
- **Better process control with excellent R&R**
- **Well proven non-contact technology**
- **Multiple can sizes with tool-free inserts**
- **Fewer wear-parts with no mechanical transducers**
- **Very low lifetime costs with minimal maintenance**
- **Also available as a fully automatic modular Master Series™ version**

Ordering Information

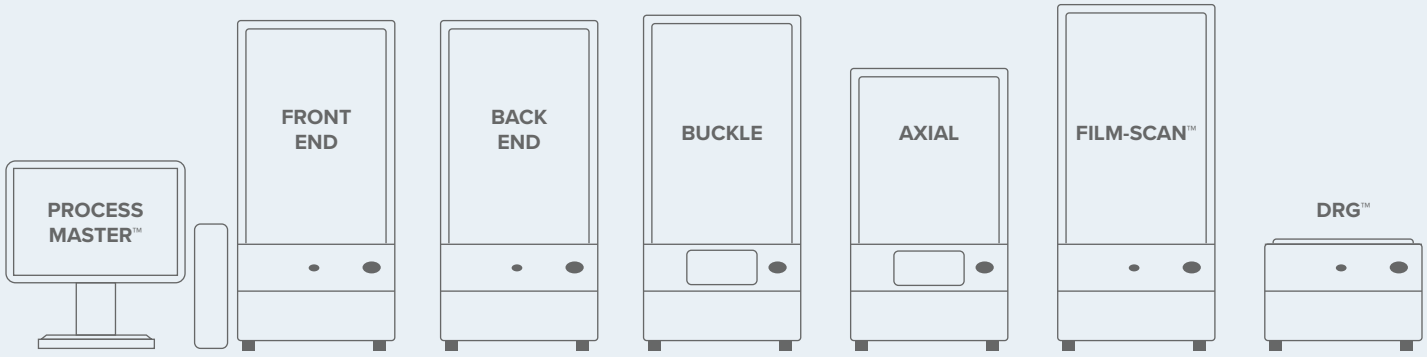
CODE	DESCRIPTION	CAN SIZE	NECK	HEIGHT
SI6501	Benchmark™ Back End Gauge: Standard	202 (53mm) to 214/300 (73mm) tool-free inserts	200 (51mm) to 209 (65mm) no change parts	87mm to 196mm automatic adjustment

Base reform measurement is available as a cost option, see below.

Optional Extras

CODE	DESCRIPTION	
395-17290-00	Dome reform measurement (scanning) option	Adds Base Reform measurement.

An existing SI6501 Back End Gauge can be upgraded with this option.

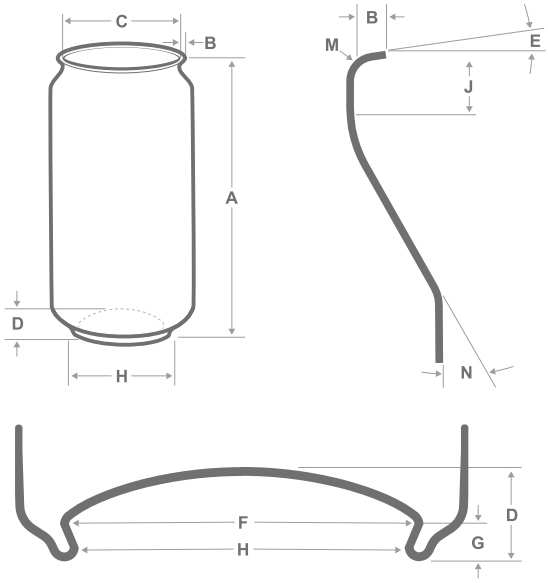
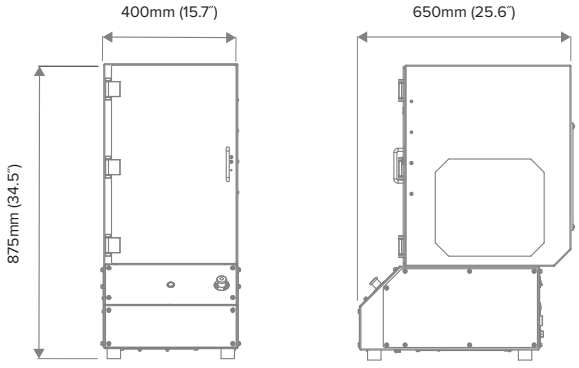


BIG ON CAPABILITY, SMALL ON SIZE

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

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TECHNICAL SPECIFICATIONS

Can Material:	Aluminium and Steel
Cans Accepted:	Necked cans only Can Body Ø: 202 (53mm) to 214/300 (73mm) tool-free inserts Can Body Ø: 200 (51mm) to 209 (65mm) no change parts Can Height: 87 to 196mm automatic adjustment
Measurement Features:	 **Standard Measurements** A. Can Height B. Flange Width C. Plug Diameter D. Dome Depth E. Flange Angle J. Seaming Clearance K. Dome Eccentricity* L. Dome Tilt* **Base Reform Measurements (cost option)** F. Reform Diameter G. Reform Height H. Minimum Stand Diameter **Other Measurements** M. Flange Radius† N. Neck Angle† *Not shown on diagram. †Measurement available in Scan Viewer.
Voltage:	100 - 240 V a.c., single phase
Temperature Range:	15°C to 40°C (59°F to 104°F)
Relative Humidity:	0% to 80% non-condensing
Ingress Protection:	IP20
Dimensions:	
Weight:	75kg (165lb) gauge only
Controller:	Process Master™ gauge software running on attached PC
Measurement Reporting:	Batch results displayed on PC screen and optionally sent as report to network storage or network printer (Report format specified at time of order) No. of batch results stored: user-definable in software (default = 100)
Loading:	Manual loading and unloading
Compliance:	CE marked: complies with relevant EU product directives UKCA marked: complies with relevant UK product regulations
Calibration:	Gauge re-baselines against setting piece (two provided) if measurement drift is detected Annual calibration of setting pieces is strongly recommended

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BENCHMARK™ BACK END GAUGE

IMPROVED R&R: Non-contact measurement reduces gauge variability which helps to improve process capability (CPk). This is increasingly demanded as cans become lighter, lines get faster, and product designs become more diverse.

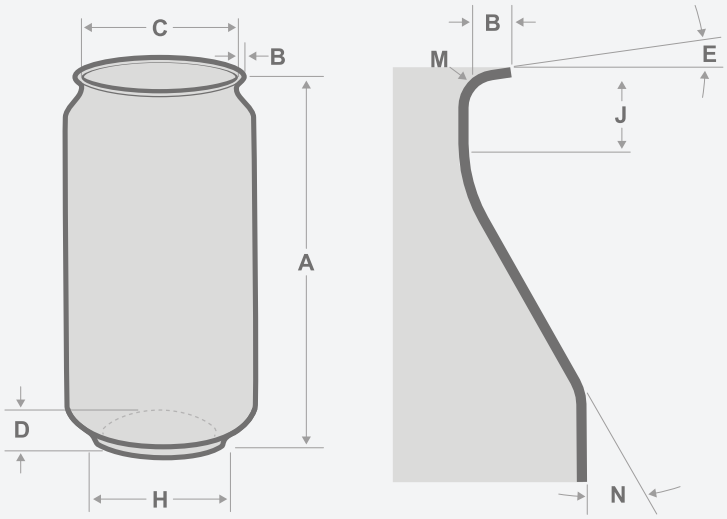
LOWER COSTS: The system uses no mechanical transducers, so there is almost no maintenance required and running costs are very low.

MULTIPLE CAN SIZES: The SI6501 Back End Gauge / Finished Can Gauge does not need any change parts for different can heights. Standard body and neck diameters are handled with simple, drop-in fixtures.

SUITABLE FOR CAN FILLING LINES: This gauge is also useful on beverage filling lines to check key dimensions of incoming finished cans.

ADDITIONAL MEASUREMENTS

More critical features can be measured with Sencon's unique CAN-SCAN™ optical technology, such as the Flange Angle and Seaming Clearance, which have always been part of the can specification but could not be reliably and repeatbaly measured until now. A Base Reform measurement option may be added at any time. All measurements are made simultaneously, so the additional module does not increase testing time.

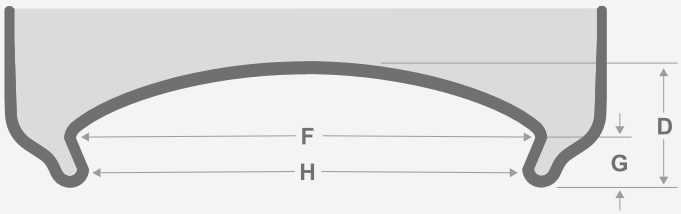


Standard Measurements
A. Can Height
B. Flange Width
C. Plug Diameter
D. Dome Depth
E. Flange Angle
J. Seaming Clearance
K. Dome Eccentricity*
L. Dome Tilt*

Base Reform Measurements (cost option)
F. Reform Diameter
G. Reform Height
H. Minimum Stand Diameter

Other Measurements
M. Flange Radius†
N. Neck Angle†

*Not shown on diagram. †Measurement available in Scan Viewer.



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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