SENCON
SENSING • TESTING • GAUGING

Benchmark™

Benchtop Axial Load Gauge



Measures the maximum force which can be applied in the axial plane before deformation

The Benchmark Axial Load Gauge (Axial Load Tester) is an easy to use semi-automatic instrument for testing necked and un-necked beverage cans, aerosols and bottles.. The gauge measures the axial load required to cause the can to deform in Newtons, pounds or kilograms. A number of unique features are designed to improve on the already established test.

- **Short cycle time**
- **Full control of test program – user adjustable crush speed**
- **Multiple can and neck sizes with quick change, tool-free inserts**
- **Semi-automatic calibration routines**
- **Results display for better diagnosis of beverage can axial load failure**
- **Easy to use icon driven, language free interface**
- **Also available as a fully automatic Master Series™ version**

Ordering Information

CODE	DESCRIPTION	CAN SIZE	NECK	HEIGHT
SI6300	Benchmark™ Axial Load Gauge: Standard	202 to 214 (52mm to 73mm) automatic adjustment	200 to 209 (52mm to 67mm) - quick-change, tool-free-inserts	87mm to 196mm (3.42” to 7.71”) automatic adjustment
SI6301	Benchmark™ Axial Load Gauge: Large can	up to 87mm (3.42”)	up to 87mm (3.42”) - quick-change, tool-free-inserts	95mm to 215mm (3.74” to 8.46”) automatic adjustment

Please note: The SI6301 Large Can variant provides an increased test load of 5,000 Newtons, making it suitable for testing DWI aerosol and bottle cans.

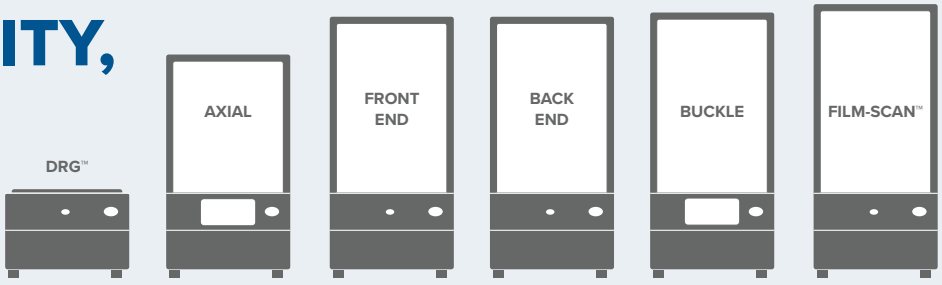
Optional Extras

CODE	DESCRIPTION	
CUSTOM	Custom Change Parts*	Custom inserts for testing aluminium bottle cans
SX1000	Data-Bridge Software	Adds data logging functionality to gauges with only an RS232 serial interface

* Custom inserts can be used with either the standard SI6300 or the SI6301.

BIG ON CAPABILITY, SMALL ON SIZE

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



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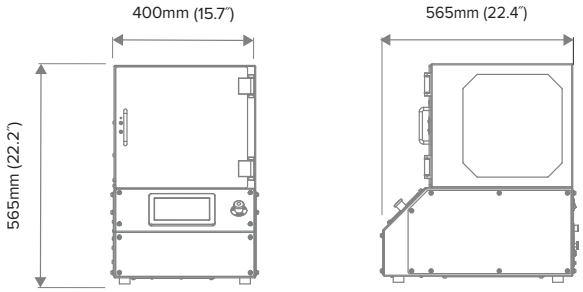
TECHNICAL SPECIFICATIONS

Can Material:	Aluminium and Steel
Cans Accepted:	**STANDARD:** Can body diameters: 52mm to 73mm (202, 204, 209, 211 and 214/300) Can neck diameters: 52mm to 67mm (200, 202, 204, 206 and 209) using change parts Can heights: 87mm to 196mm (3.42” to 7.71”) no change parts needed **LARGE CAN VARIANT:** Can body diameters: Up to 87mm (3.42”) Can neck diameters: Up to 87mm (3.42”) using quick-change tool free inserts Can heights: 95 mm to 215 mm (3.74”to 8.46”) no change parts needed
Maximum Batch Size:	50 cans
Measurement Features:	• Results can be displayed in N, lbf or kgf (user selectable) • Automatically adjusts for different can heights • Up to 20 different test procedures (user programmable) with test type distinctions for production, setup, recheck, etc. • Test load crush speed settable for each procedure, in range 10 - 200 mm/minute • 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:	0°C to 40°C (32°F to 104°F)
Relative Humidity:	0% to 80% non-condensing
Ingress Protection:	IP44
Dimensions:	
Weight:	45kg (99.2lb)
Controller:	Integrated 7” high resolution touch-screen Icon based operator interface (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:	Internal load cell is calibrated to traceable standards Annual recalibration / re-validation of gauge accuracy is strongly recommended

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BENCHMARK™ AXIAL LOAD GAUGE

HIGH PRECISION TESTING: The SI6300 Axial Load Gauge (axial load tester) is an easy to use semi-automatic instrument for testing necked and un-necked beverage cans. The gauge measures the axial load required to cause the can to deform in Newtons, pounds or kilograms. The load is applied via a high precision, digitally controlled motor. This technique delivers a shorter cycle time. A number of unique features improve on this established and essential quality test.

FLEXIBLE USER CONTROL: The benchtop Axial Load Gauge accepts beverage cans with body diameters up to 73mm (87mm for SI6301) and neck diameters from 200 - 209 using quick change, tool free inserts. Beverage cans may be tested either way up by simply switching the platen and plug fixtures, which takes less than a minute. Neck plugs are customer specific.

The intuitive, language-free touch screen HMI gives supervisors full control of the test program.

AEROSOLS AND BOTTLES: Testing aerosols and bottles is possible with the 'Large can' variant of Sencon's Benchmark Axial Load Gauge, which is capable of applying a greater axial load required for crush testing these cans.

MASTER SERIES



MEET THE BIG BROTHERS ...

The Master Series™ range offers Sencon's well-proven gauging solutions in fully automatic and flexibly arranged modules that are integrated onto the line with programmable batch sampling on a time or production basis.

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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