

## Back End Gauge SI6501

## NON - CONTACT MEASUREMENT OF KEY DIMENSIONS ON FINISHED (NECKED) BEVERAGE CANS

Low maintenance and low running costs



BENEFITS
More critical features measured (e.g. seaming clearance and flange angle)
Multiple can sizes with tool-free inserts
Minimal maintenance—no mechanical transducers, fewer wear parts
Very low lifetime costs
Well proven technology
Constant self monitoring/self calibrating
Greatly improved R&R for better process control

Multiple can sizes with tool-free insert

**MORE CRITICAL FEATURES MEASURED** — Using optical scanning allows repeatable measurement of all the specified features, including seaming clearance and flange angle. Base reform measurements, which do not increase testing time, can be added when needed.

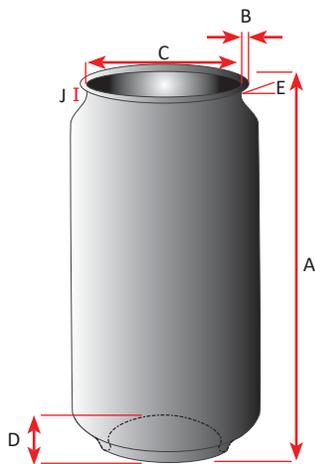
**LOW MAINTENANCE AND RUNNING COSTS** — The system uses no mechanical transducers, which minimizes wear parts. So there is almost no maintenance required and running costs are very low.

**MULTIPLE CAN SIZES** — Non-contact technology allows switching can diameters or heights without adjustment. So standard can sizes and shapes can easily and quickly be tested with a single gauge.

**SELF MONITORING, SELF CALIBRATING** — All measurements are accurate to  $\pm 0.025$  mm. Every measurement for every batch is automatically qualified using a UKAS approved setting master. The gauge constantly monitors its own performance and recalibrates if drift is detected.

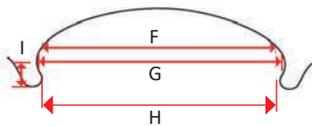
**IMPROVED R&R FOR BETTER PROCESS CONTROL** — Contact systems inevitably deform features such as the flange and neck diameter as they are measured. The non-contact gauge avoids this, reducing gauge variability. This helps to improve process control (CPk), which is increasingly demanded as cans become lighter, lines get faster, and product designs become more varied.

SI6501 MEASUREMENTS
<i>Metric or Imperial Units</i>
A. Can Height
B. Flange Width
C. Plug $\varnothing$
D. Dome Depth
E. Flange Angle
J. Seaming Clearance



A Base Reform  
Measurement cost option  
may also be specified

REFORM MEASUREMENTS
<i>Metric or Imperial Units</i>
F. Reform $\varnothing$ (user-defined height)
G. Maximum Reform $\varnothing$
H. Reform Height
I. Minimum Stand $\varnothing$



FEATURES	
Cans accepted	Necked cans only
Can material	Steel or Aluminium
NOTE: The gauge is supplied with a PC and proprietary <b>Process Master™</b> software which is used to set up test routines, track and display results from all modules installed on the system.	

CAN SIZE OPTIONS	
	<b>Standard gauge</b>
Can body $\varnothing$	202 to 214 tool-free inserts
Can neck $\varnothing$	200 to 209 no change parts
Can height	87 to 190 mm automatic adjustment

BENCHMARK  
SERIES

ORDERING INFORMATION
Back End Gauge SI6501
Base Reform Measurement option

