Z606 Automatic Score Gauge

torus measurement systems
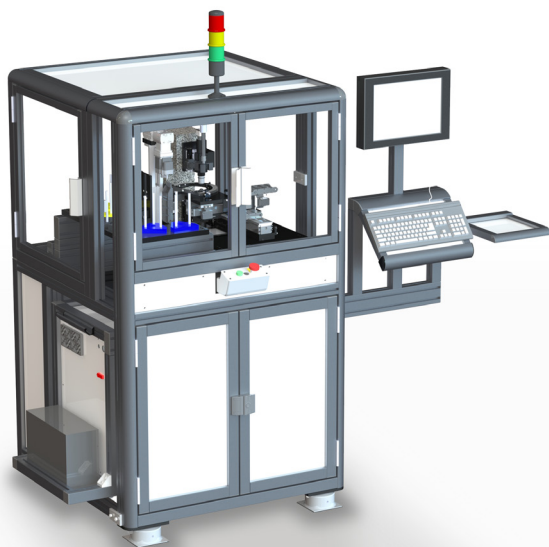
The Z606 Automatic Score Gauge has been developed to provide the highest accuracy, repeatability, and usability for the measurement of Score Residual on both Beverage and Food Ends.

The Gauge uses two proprietary 3D Scanning White Light Interferometry Sensors developed by Torus' Research & Development team. Each sensor performs a high-resolution area scan of the upper and lower surface of the Score area to build up a full 3D map for analysis and measurement. The sensors combine sub-micron vertical scanning with sub-micron X, Y area scans for unprecedented resolution, resolving up to 2.3 million surface data points for each Score Residual Thickness measurement.

For ease of use, intelligent Machine Vision is used to automatically orientate the End allowing for accurate and repeatable positioning. Each measurement position can be easily defined by the operator either by setting X, Y co-ordinates from a reference point or by manual selection on a high-quality image of the End, giving consistency from End to End.

The motor driven and fully controllable auto loader allows up to 7 fully configurable load/unload stacks for multiple End sizes, holding up to 48 ends each. The unique pick up offers complete flexibility by being able to load all sizes, different progression stages and even with the rivet removed.

Technical Specification:

Capabilities	Typical Range
Component Materials	Steel/Aluminium
Component Stages	Food/Beverage Ends
Component End Range	48 - 93mm Curl Diameter (113 - 309)

Benefits to your business

› Automation translates to greater labour hours available, improving compliance & increasing your ability to scale.

› Accurate, repeatable and traceable inspection data superior to traditional methods

› Removing operator bias, giving you complete confidence in your process control.

› High level efficiency & productivity, significantly reducing reliance on operator labour due to short cycle inspection times.

› Significant cost saving offering a fantastic ROI

Click **here** to view the video

ELECTRICITY
100 - 240 Volts / 50-60 Hz

COMPRESSED AIR
5 bar / 73 PSI

WEIGHT
690kg

DIMENSIONS
(W) 2030 mm x (H) 1702 mm
(D) 1135 mm

Measurement Features:

Feature	Accuracy +/-	Repeatability
Score Residual	< 1µm	< 2µm
Score Maximum Residual	< 1µm	< 2µm
Score Minimal Residual	< 1µm	< 2µm

CE

bsi. ISO 9001 Quality Management Systems CERTIFIED
CERT NO. FM 570505

UKAS MANAGEMENT SYSTEMS
0775 CALIBRATION LABORATORY

# Specification and Features

1. Ease of Setup
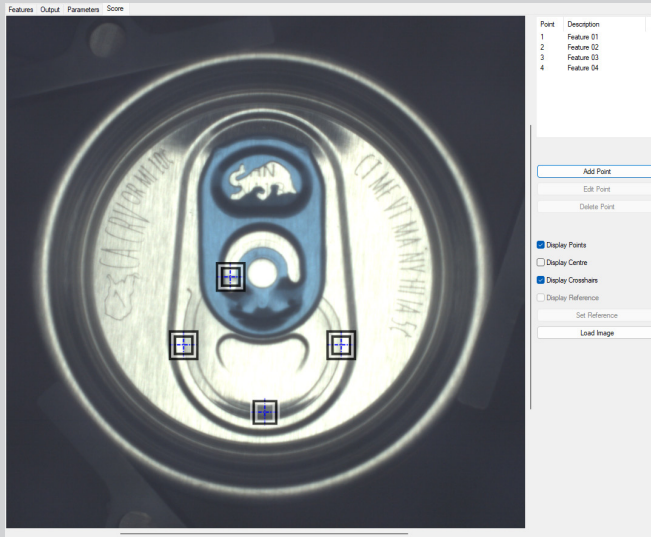
Simply setup measurement positions using a drag and drop interface on an image of the End to be measured.

Alternatively X,Y co-ordinates can be entered referenced from the centre of the End or other user-defined datums.
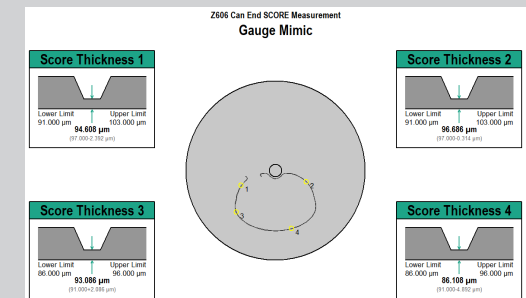
2. Pioneering Technology

3D Scanning White Light Interferometry Sensors developed by Torus, provide sub-micron resolution and unparalleled detail.

Bespoke algorithms analyse up to 2.3million data points per scan to provide accurate Score Residual Thickness Measurements.
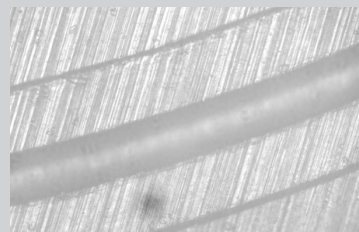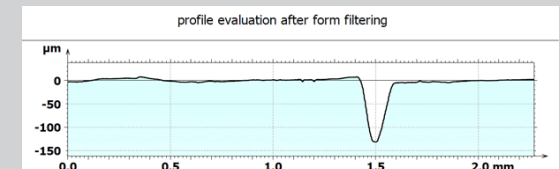

3. Results and Feedback

Mimic Screens provide instant feedback for Pass and Fail.

Graphical Section plots show the Score profile for lifetime monitoring.

3D data available for output to preform detailed analysis and evaluation.