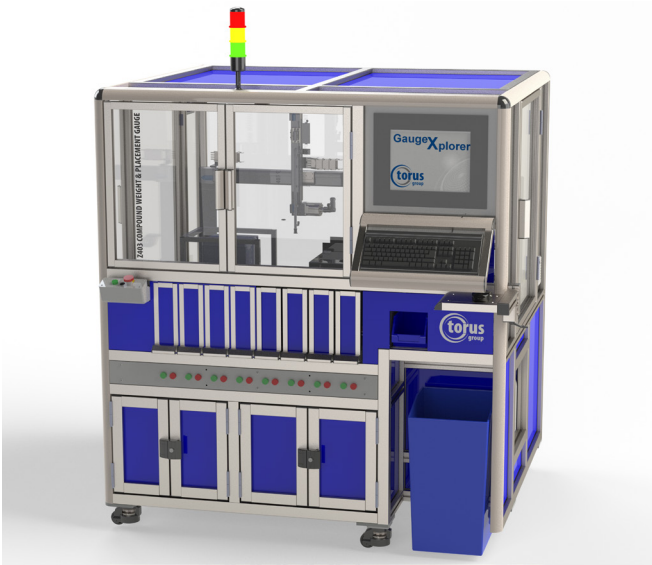
Product Information Sheet

# Z403 Automatic Compound Weight and Placement Gauge




**ELECTRICITY**
100-240 Volts / 50-60 Hz

**COMPRESSED AIR**
5 bar / 73 PSI

**WEIGHT**
700kg

**DIMENSIONS**
(W) 1728mm x (H) 1814mm
(D) 1686mm

The Z403 Automatic Compound Weight and Placement Gauge has been designed to significantly reduce the labour time associated with manual compound weight and placement checks, whilst also reducing the risk of human error in this manually labour intensive process.

## Measurement Features:

| Feature | Accuracy | Repeatability |
|---|---|---|
| **Compound Weight** | +/- 0.4 mg | 1.0 mg |
| **Pre-lined Weight** | Taken from post-lined weight to give compound weight. | |
| **Post-lined Weight** | Pre-lined weight taken from this to give compound weight. | |
| **Average Cut Edge Distance (360°)** | +/- 0.05 mm | 0.1 mm |
| **Average High on Shoulder (360°)** | +/- 0.05 mm | 0.1 mm |
| **Average Compound Bandwidth (360°)** | +/- 0.05 mm | 0.1 mm |

## Technical Specification:

| Capabilities | Typical Range |
|---|---|
| **Shell Materials** | Aluminium |
| **Component Stages** | Shells |
| **Shell DIameter Range** | Ø 200 - Ø 209 |

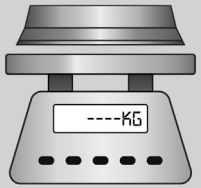
## Benefits to your business

- Option of 1-5 stations for up to 1-5 sizes/types at one time with no change parts
- Significantly reduces labour time
- Reduces risk of human error
- Compound weight and placement together in one process
- Barcode label printing and verification on any colour shells
- A “dimple” detection station is included to identify liner gun 1, giving further detailed traceability for SPC data analysis

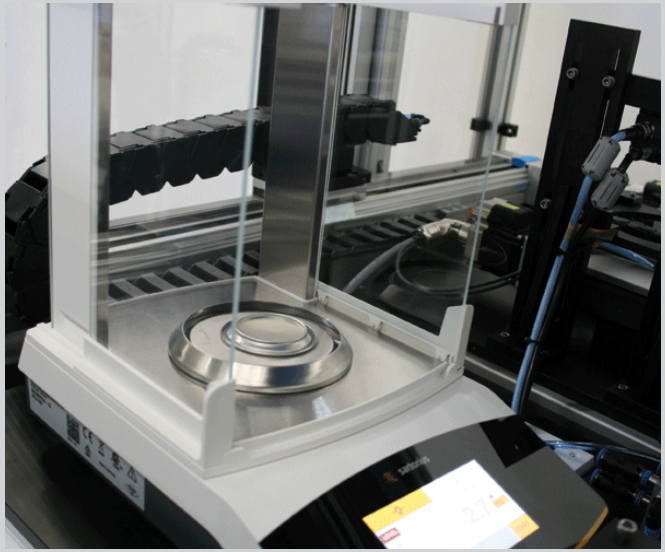
Click here to view the video

# The Process

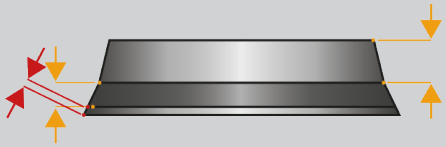
## 1. Compound Weight



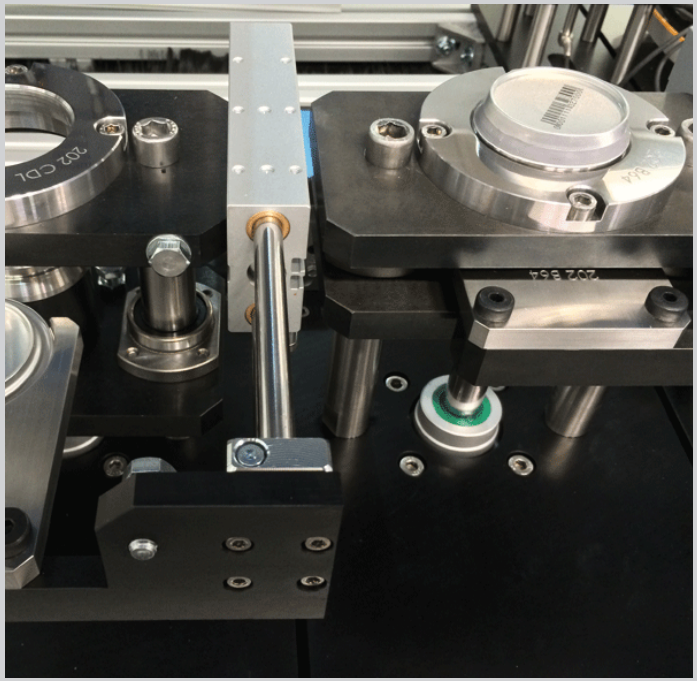

After the shells have been passed through the “lining” process, the operator will bake the ends in the usual manner and return them to the gauge. Each shell will be automatically identified and weighed again. The barcode verification feature ensures the risk of “mixing” or manual data entry errors are completely removed from the process, and the compound weight will be automatically calculated and displayed for the operator for each shell.



## 2. Compound Placement

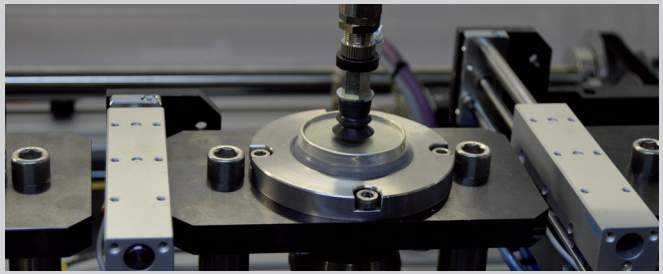


After compound weight compound placement can also be checked. This is done by up to 5 optional “uncurling” presses within the gauge, for plants producing different shell diameters and types.

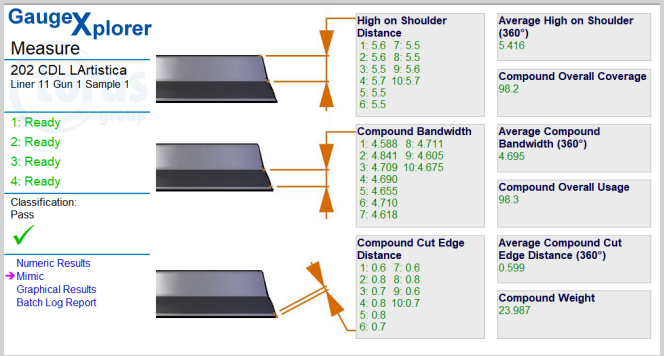


## 3. Uncurling

Once “uncurled” the shells are inspected by up to 5 high resolution cameras as they are rotated through 360 degrees.



**Detailed information on the cut edge distance and HOS (high on shoulder) is provided around the complete shell circumference.**

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