# Automatic Food End Compound Weight and Placement Gauge

## Z403

INDUSTRIAL PHYSICS

Protecting
Product Integrity

# Automatic Compound Weight and Placement Gauge

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

## Technical Specification:

| | |
|---|---|
| **Shell Material** | Aluminum / Steel |
| **Component Stages** | Shells |
| **Shell Diameter Range** | ø 211 - ø 307 |
| **Power** | 100 - 240V / 50 - 60Hz |
| **Compressed Air** | 5 bar / 73 PSI |
| **Weight** | 770 kg |
| **Dimensions** | (W) 1728 mm x (H) 1818 mm x (D) 1686 mm (3 Station) |

## 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.

## Measurement Features:

| | | |
|---|---|---|
| **Compound Weight** | Accuracy: +\- 0.4 mg | Repeatability: 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°)** | Accuracy: +/- 0.05 mm | Repeatability: 0.1 mm |
| **Average High on Shoulder (360°)** | Accuracy: +/- 0.05 mm | Repeatability: 0.1 mm |
| **Average Compound Bandwidth (360°)** | Accuracy: +/- 0.05 mm | Repeatability: 0.1 mm |

Repeatability Performance Data - available upon request

## Ordering Information:

| Article Number | Article Description |
|---|---|
| **Z403 FOOD** | Automatic Food Can End Compound Weight and Placement Gauge |

## Benefits:

- Option of 1-5 stations for up to 1-5 sizes / types at one time with no change parts
- Significantly reduces labour time
- Reduces the 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

**Disclaimer**
The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

## Contact Details

**web.** www.industrialphysics.com
**email.** info@industrialphysics.com

INDUSTRIAL PHYSICS

torus