Automatic 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
Component Stages	Shells
Shell Diameter Range	ø 200 - ø 209
Power	100 - 240V / 50 - 60Hz
Compressed Air	5 bar / 73 PSI
Weight	700 kg
Dimensions	(W) 1728 mm x (H) 1814 mm x (D) 1686 mm

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 BEV	Automatic 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.

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