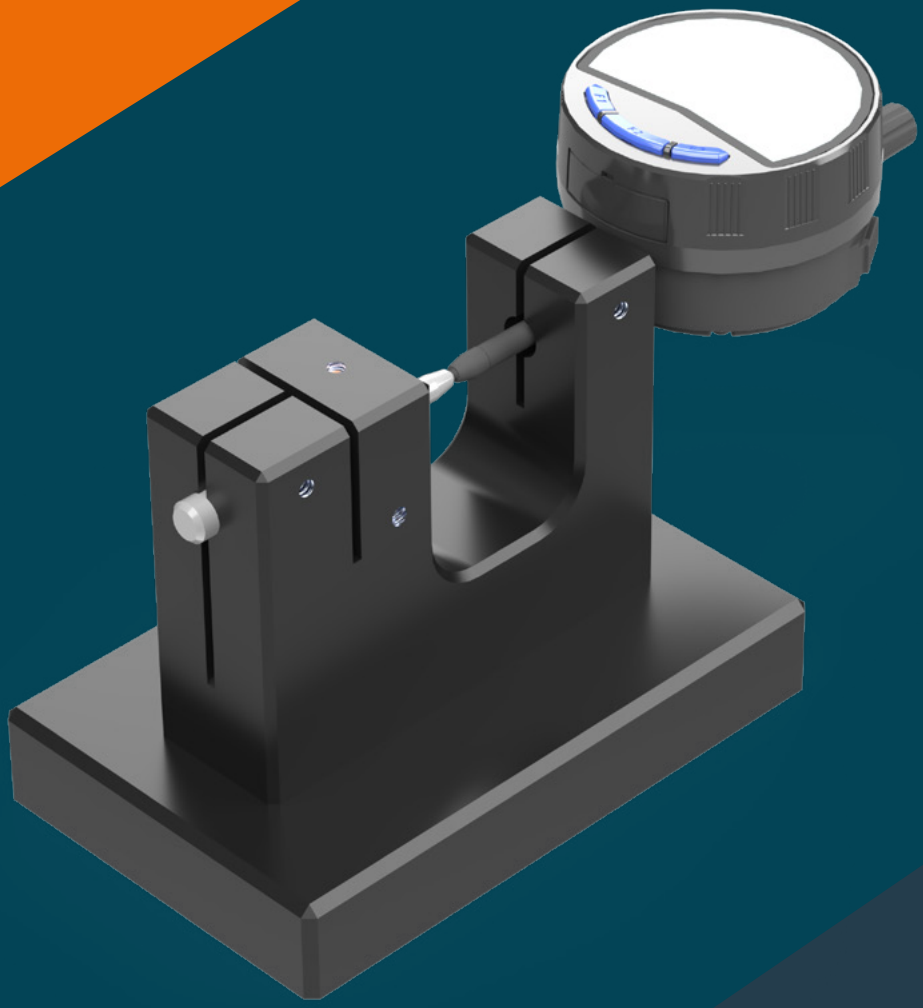
torus



# Handheld Plate Thickness Gauge

## Z551

INDUSTRIAL PHYSICS

Protecting
Product Integrity

# Handheld Plate Thickness Gauge

**The Z551 Handheld Plate Thickness Gauge delivers precise measurements of the coil and sheet thickness in the can making industry. Its portability, accuracy, and data integration capabilities make it an essential tool for quality control.**

Brought to you by Torus, our specialist metal packaging testing brand, we are pleased to be able to offer the Z551 Handheld Plate Thickness Gauge for precise flat sheet material thickness measurements. Whether it be for food, beverage or aerosol, our gauges are portable in design and provide accurate measurements of plate thickness.

## Accurate plate thickness measurements

The Torus Z551 Handheld Plate Thickness Gauge features a resolution of 1 micron (0.001 mm) for highly accurate assessments of aluminum and steel materials.

It provides repeatable results, ensuring consistent quality control across can production. A push-button retractable gauge ensures easy insertion of samples without damage, providing reliable results for the flat sheet thickness.

## Portable and efficient design

Requiring no power or air supply, the Z551 Plate Thickness Gauge is portable and convenient for placement near production lines. It supports efficient process monitoring without the need for a dedicated workstation, making it ideal for both setup optimization and routine quality checks.

## Versatile data handling

The digital indicator can provide readings in inches or mm. Additionally, to reduce the risk of manual recording errors, the device can be connected to an SPC application, i.e. the CMC-KUHNKE Visionary or Torus' GaugeXplorer software.
This versatility makes it ideal for quick checks during production or as part of a broader quality control strategy.

## Technical Specification:

| | |
|---|---|
| **Components Measured** | Aluminum or Steel Coils & Sheets |
| **Resolution** | 0.001 mm (1 micron) |
| **Operation** | Push Button |
| **Communication** | Data connection to SPC software available |
| **Weight** | 1.2 Kg |
| **Dimensions** | (W) 190 mm x (H) 107 mm x (D) 80 mm |

## Importance of measuring plate thickness of cans

Measuring the thickness of the raw material in can and end making is essential for ensuring product integrity, performance, and safety. The thickness directly affects the strength and durability of the can and the efficiency of the manufacturing process. If the material is too thin, it may compromise the can's ability to withstand internal pressure or external forces, potentially leading to deformation, leakage, or failure during handling and transportation. In addition, raw material that is too thin can lead to cracks in the presses, which can result in production stoppages and downtime. In the worst case, excessively thick raw material leads to increased wear and tear on production machinery and also generates higher costs.

By maintaining the correct plate thickness, manufacturers can ensure that the final product and its manufacturing process perform reliably and meet quality standards. Accurate measurements help optimize material usage while maintaining structural integrity, contributing to both cost efficiency and customer satisfaction.

## Features & Benefits:

- Measures flat sheet and coil thickness
- Robust, portable design
- Highly accurate measurements
- 0.001 mm (1 micron) resolution
- Extremely simple to operate
- Can be used standalone or with a PC
- Does not require power or air supply

## Ordering Information:

| Article Number | Article Description |
|---|---|
| Z551-11.10.1 | Handheld Plate Thickness Gauge |

**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