

## Paint Inspection Gauge P.I.G. 455

*A small instrument  
with great capabilities*

*LED for optimum  
specimen illumination*

*Low current  
consumption*



testing equipment for quality management

**ERICHSEN**

**DIN 50986  
DIN EN ISO 2808  
ASTM D 4138  
AS 1580 Meth. 408.1**

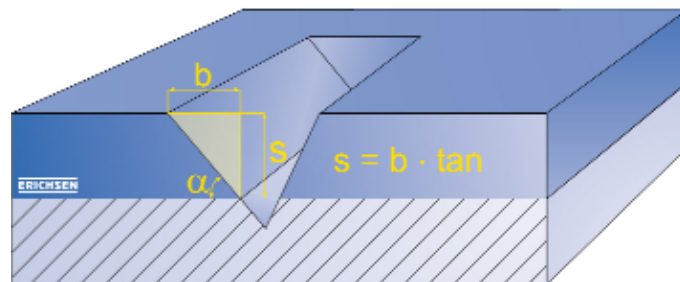
**For layer thickness  
measurements on  
base materials such  
as wood, concrete or  
plastics**

## Purpose and Application

The **P.I.G. 455** is a paint inspection gauge which is suitable for use wherever conventional electro-magnetic measuring techniques are ineffective, namely for coatings on wood, concrete, plastics and other non-metallic substrates.

## Testing Principle

Testing with the **P.I.G. 455** is based on the standardized wedge cut procedure: The coating is cut through at a defined angle in such a way that the cut penetrates the substrate. The layer thickness (s) is calculated on the basis of the slope projection (b) of the cut face, determined using a measuring microscope, and the cutting angle ( $\alpha$ ). Similarly, the individual layer thickness of multilayer systems can be ascertained.



For adhesion tests in accordance with AS 1580 Meth. 408.1, the width of the area where the coating has flaked off during the cutting operation is related to projection b.

Carbide tip	Nr. 1	Nr. 4	Nr. 5	Nr. 6
Measuring range (µm)	20 - 2000	10 - 1000	5 - 500	2 - 200
Cutting angle $\alpha$	45°	26.6°	14°	5.7°
Factor (µm/sc.div.)	20	10	5	2

## Design and Function

The **P.I.G. 455** consists of a black painted aluminium block which accommodates the following functional elements:

- Exchangeable carbide tip with precision-ground angular cutting blade.
- Measuring microscope with a magnification of 50 and a reticle (2 mm with 1/100 division), which is also suitable for inspection tasks.
- Two pairs of support pins to hold the measuring microscope securely and guide the carbide tip.
- Battery compartment for mignon batteries AA (2 pcs)
- Combination of LED and fibre-optic light guide for optimum specimen illumination at low current consumption
- Key for the integrated illumination

## Technical Data

Measuring range (standard):	2 - 200 µm
Dimensions:	110 x 85 x 25 mm
Net weight:	0.4 kg
Power supply:	Mignon batteries AA
Light source:	LED diffuse white
Measuring microscope:	
- Magnification:	50
- Reticle	2 mm (1/100 division)

## Ordering Information

Order No.	Description
0098.01.31	<b>Paint Inspection Gauge P.I.G. 455</b>
	Scope of delivery includes: <ul style="list-style-type: none"><li>- Carbide tip No. 6</li><li>- Mignon batteries AA (2 pcs)</li><li>- Marking pen</li><li>- Leather case</li><li>- Operating instructions</li></ul>

## Accessories / Spares

Order No.	Description
910924741	Special Tip No. 1 for layer thicknesses up to 2000 µm
910927441	Special Tip No. 4 for layer thicknesses up to 1000 µm
910927641	Special Tip No. 5 for layer thicknesses up to 500 µm
910927541	Special Tip No. 6 for layer thicknesses up to 200 µm

Subject to technical modifications.  
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