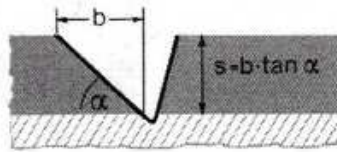


Purpose and Application

The P.I.G. 455 is a paint inspection gauge which is suitable for use wherever conventional electromagnetic 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 (α). 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	No. 1	No. 4	No. 5	No. 6
Measuring range (µm)	20 - 2000	10 - 1000	5 - 500	2 - 200
Cutting angle α	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 2 round cells.
- Lens tip lamp for optimal illumination of the specimen.
- Double lamp switch setting (touch/permanent).

Technical Data

Measuring range (standard): 2 - 200 µm
 Dimensions: 110 x 85 x 25 mm
 Net weight: 0.4 kg
 Batteries: 2 round cells (mignon)
 Lens tip lamp: 3.7 V/0.3 A/base P13.5s
 Measuring microscope:
 - Magnification: 50
 - Reticle 2 mm (1/100 division)

Ordering Information

Order No.	Name of Product
0098.01.31	Paint Inspection Gauge P.I.G. 455
Scope of delivery includes:	
<ul style="list-style-type: none"> • Carbide tip No. 6 • 2 round cell batteries • Leather case • Operating instructions 	

Accessories / Spares

Order No.	Name of Product
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
440063241	Lens Tip Lamp 3.7 V / 0.3 A

Subject to technical modifications.
 Gr. 10 - TBE 455 - IV/00

ERICHSEN
 TESTING EQUIPMENT

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