Mechanical Cupping Tester

The BYK-Gardner Mechanical Cupping Tester is designed to test the elongation and deformability of lacquers and protective coatings applied to metal substrates. The punch is applied under pressure to the uncoated side of the test panel. The panel is held in place by a clamping ring. Two test procedures can be performed the "Predetermined depth" (go/no go) or "Minimum depth required to cause failure".

- New ergonomic design to save counter space
- Two hand crank operation for ease of operation
- Precision gearbox to provide reproducible results
- Chrome steel spherical punch
- Illuminated 2.5X magnifier on a pivoting arm
- Battery powered with auto-off feature
- LCD displaying indent depth to 0.01 mm resolution

Test Panels

The recommended test panel size is a minimum of 70 mm (2.75 in) square with a maximum size of 100 mm (3.9 in) wide and 150 mm (6.0 in) high. For burnished steel the minimum thickness is 0.3 mm (0.01 in) to a maximum of 1.25 mm (0.05 in). The maximum tensile strength of a 1.25 mm thick panel can not exceed 280 N/mm². For aluminum panels the maximum thickness is 3 mm (0.12 in).

New!

Standards

BS	3900
DIN	53166, 53232
ISO	1520,
JIS	K 5600-5-2, B 7729

Ordering Information

Cat. No.	Description
PF-5405	Mechanical Cupping Tester
PF-5406	Indenter
PF-5407	Magnifier
PF-5408	Zero Plate

Comes complete with:
Mechanical cupping tester
zero plate
magnifer glass
alkaline batteries 2 D size, 4 AA size
Operating instructions

Technical Specifications

Spherical Punch	ø 20 mm (ø 0.8 in)
Full Travel	0.00- 20.50 mm (0.0 - 0.81 in)
Accuracy	±0.05mm (0.002 in), full range
Calibrated Range	-0.5 to 20.5 mm (0.02 - 0.81 in)
Gearing	1 revolution of handle moves punch 0.2 mm under load
Display	LCD 4-digit
Dimensions	420 x 350 x 500 mm (16.5 x 13.8 x 19.7 in)
Weight	16 kg (35.2 lb)
Power	Main 2 alkaline D cells; Magnifier 4 alkaline AA cells
Operating Temperature	+15 - +35 °C (59 - 95 °F)

Info!

For more information how to evaluate test results with the new Digital Pocket Microscope please see chapter "Microscopes", pages 221 - 223.