

# 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/mm<sup>2</sup>. For aluminum panels the maximum thickness is 3 mm (0.12 in).

## Ordering Information

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

### Comes complete with:

Mechanical cupping tester  
indenter  
zero plate  
magnifier glass  
alkaline batteries 2 D size, 4 AA size  
Operating instructions



## Standards

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

## Technical Specifications

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