

## **Digital Display Cupping Tester**

**BGD 309**

### **Product Description**

---

BGD 309 Cupping Tester is applicable to evaluate crack resistance and detachment of coatings from metal substrates after the coating layer has been deformed gradually under standard conditions.

A sample panel (max. 1.25mm thick, 70 mm width, coated min. 0.03mm) is clamped by an upper wheel and manually cupped by a 20mm hemispherical indenter onto a 27mm die by a drive wheel. The depth to cause failure is indicated on a precise digital display. The results can be easily observed with an illuminated magnifier.



### **Standards**

---

- ISO 1520
- BS 3900 Part 4
- DIN 53166
- DIN 53233

### **Technical Specification**

---

- In compliance with ISO 1520 BS 3900 Part 4 DIN 53166 DIN 53233 etc
- Automatic coordinate positioning system: tester can memorize the home position after being zeroed, also track the punch's position automatically. Therefore, the traditional error caused by return or shake can be avoided
- Highly precise position sensor: the minimum division value of the depression depth can reach 0.01mm
- Applicable for every kind of substrate, and the maximum pressure can reach 2,500N
- The coordinate position of the plug can be zeroed manually and can be memorized
- 10X illuminated magnifier, convenient to observe and evaluate the test result
- Hand twist operation: laborsaving and easy-handling

## Digital Display Cupping Tester

**BGD 309**

### Main Technical Parameters

|                                   |  |
|-----------------------------------|--|
| Diameter of punch:                | Ø20mm (0.8 inch)                                   |
| Maximum dent depth:               | 12 mm  |
| Maximum depress power:            | 2,500 N  |
| Precision of dent:                | 0.01 mm  |
| Counter (digital display):        | in 0.01 mm increments                              |
| Suitable thickness of test panel: | 0.03-1,25 mm x 0.03-1.25 mm (smooth, not deformed) |
| Dimension of test panel:          | 150mm x 70mm                                       |
| Material:                         | Polished steel panel                               |
| Dimensions:                       | 230x300x280 (LxWxH)                                |
| Weight:                           | 20 KG  |

### Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development