

Automatic Cupping Tester

BGD 310 is a automatic cupping tester. On the base of BGD 309, this machines punch can rise automatically at the speed of 0.2mm/s which is required by standard. Eliminate the error coming from hand lifting.

Moreover, BGD 310 automatic cupping tester is equipped with a high definition screen, operator can observe clearly the damages (cracking) from tested specimen, thus judge test result easily and more precise.

It conforms ISO 1520, BS 3900 Part 4, DIN 53166, DIN 53233 etc

Features:

- ◆ Punch is lifted automatically (Constant speed: 0.2mm/s), get more reliable and more comparable test results.
- ◆ Automatic coordinate positioning system: machine can memorize the home position after being zeroed, and locate the punch position automatically.
- ◆ High-power magnifier and high definition showing screen, judging test results is easier and more directly. And no need to focus during the whole test.
- ◆ The lifting distance of punch can be set freely from 0~18mm
- ◆ High precision raster displacement sensor, locate accurately and precision can reach $\pm 0.01\text{mm}$
- ◆ The max. width of test panel can be 90mm

For the BGD 310/S automatic cupping tester equipped with image recognition capabilities, it adopts an industrial camera vision system and self-developed software. The instrument can automatically detect the critical point at which cracks first appear on the coated surface of the test panel and stop operation accordingly, while simultaneously recording the current coordinate parameters (indentation depth). This significantly reduces human judgment errors and effectively improves the reproducibility and comparability of test results. Additionally, the instrument features the following characteristics:

- ◆ Built-in micro PC for efficient and accurate data processing;
- ◆ Adjustable indentation speed within a range of 0.1 mm/s to 0.3 mm/s;
- ◆ Supports external keyboard, mouse, and display (HDMI) connections for diversified operation methods.

Main Technical Parameters:

- ★ Diameter of punch: $\phi 20\text{mm}$ (0.8 inch)
- ★ Maximum dent depth: 18mm
- ★ Maximum depress power: 2,5000N
- ★ Precision of dent: 0.01mm
- ★ Max. Thickness of TestPanel: 0.7mm (Stainless Steel), 1.25mm (A3 Steel), 2mm (Aluminum)
- ★ Net Weight: 52 KG (BGD 310) ; 48KG (BGD 310/S)
- ★ Overall Size (L x D x H), mm: 466 x 322 x 500 (BGD 310) ; 330 x 360 x 490 (BGD 310/S)

★ Ordering Information :

BGD 310---Automatic Digital Cupping Tester

BGD 310/S---Automatic Digital Cupping Tester with Image Recognition



BGD 310



Scan for video



BGD 310/S