

Cupping Tester

BEVS 1616



Introduction	BEVS 1616 Cupping Tester, a specialized device for coating applications, complies with GB/T 4156 and GB/T 9753. This instrument employs a worm gear reducer, with manual cranking on both sides to elevate the punch head at a controlled speed. It employs CCD imaging technology to display real-time images of the test process on the screen, and it can also switch to a conventional magnifier for observation. The device is designed to evaluate the crack resistance and adhesion performance of materials and is widely used in industries such as automotive, home appliances, and packaging to inspect cracks, coatings, and overall quality and reliability.
Working Principle	The cupping tester uses a punch with a spherical end to press against a test panel clamped within a die, creating a dent until a penetrating crack appears. The depth of the dent, measured based on the punch displacement, serves as the test result.
Features	<ol style="list-style-type: none">1. High-definition touch display for simple and effortless operation2. Equipped with a CCD camera for automatic imaging3. Optional magnifier available for quick switching
Main Function	<ol style="list-style-type: none">1. Automatic imaging2. Real-time display of cupping speed and depth3. Real-time display of ambient temperature and humidity4. Completion notification5. Automatic data recording with export support
Technical Parameters	<ol style="list-style-type: none">1. Sample size: L (70–250) × W (60–90) mm2. Maximum sample size: 250 × 90 mm (L×W)3. Steel ball diameter: 20 mm4. Cupping depth: 0–16 mm5. Measurement resolution: 0.01 mm6. Maximum cupping force: 2800 N7. Manual lifting speed: 0.2 mm/r
Instrument Parameters	<ol style="list-style-type: none">1. Dimensions: L 250 × W 340 × H 580 mm (including CCD/magnifier)2. Power supply: AC 110V/220V, 50/60 Hz3. Power: 20 W4. Weight: 28 kg
Packing list	Cupping Tester × 1 Magnifier Assembly for Cupping Tester × 1 Camera Assembly for Cupping Tester × 1 Calibration Plate × 1

■ Standards

GB/T 4156	Metallic Materials - Sheet and Strip - Erichsen Cupping Test
GB/T 9753	Paints and varnishes - Cupping test

■ Ordering Info

BEVS 1616	Cupping Tester
BEVS 1616/P/01000	Magnifier Assembly for Cupping Tester
BEVS 1616/P/02000	Camera Assembly for Cupping Tester
BEVS 1616/P/03000	Calibration Plate