



# Surface Testing - Cupping Tester for Coating Flexibility

## PCE-CPT 20



### PCE-CPT 20 Cupping Tester

**For coating flexibility and adhesion testing in accordance with ISO 1520**

PCE-CPT 20 is a cupping tester, or surface coating flexibility testing device, used for testing the formability, ductility, adhesion and elongation of paints, lacquers, varnishes, powder and protective coatings on sheet metal. Used in manufacturing production, paint shop and quality control applications, the PCE-CPT 20 cupping tester aids in determining coating strength, durability and elasticity.

A mandatory test in Qualicoat and QIB accredited quality control laboratories, a cupping test, also referred to as an Erichsen test or dent test, uses a spherical punch to deform a sample. This deformation results in a cup-like bulge. When using the PCE-CPT 20 to perform a cupping test in accordance with the ISO 1520 standard, the sample should be placed coating side up so that the 20 mm spherical punch presses against the uncoated underside of the metal sheet. The cupping test is terminated when small cracks and/or detachments are observed on the bulged part of the sample. The PCE-CPT 20 cupping tester's easy-to-read display shows the bulge deformation distances that can be used to determine the coating's flexibility rating.

- ▶ Features a lighted microscope for closely monitoring coating cracks and/or detachments
- ▶ Tests surface coatings on metal sheets 0.3 to 1.25 mm thick
- ▶ Accommodates a maximum sample size of 140 x 70 mm
- ▶ Provides a maximum depression force of 2500 N
- ▶ Offers a display resolution of 0.01 mm
- ▶ Comes with a 12 V power adapter
- ▶ Includes a zero standard

Subject to change

## Specifications

|                          |  |
|--------------------------|--|
| Diameter of cup          | 20 mm / 0.8 in                             |
| Maximum depression       | 12 mm / 0.5 in                             |
| Resolution               | 0.01 mm                                    |
| Maximum depression force | 2500 N                                     |
| Dimensions               | 290 x 230 x 370 mm / 11.4 x 9 x<br>14.5 in |
| Weight                   | 28 kg / 61.8 lbs                           |

## More information

Manual



More product info



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