



TCB-II CUPPING TESTER

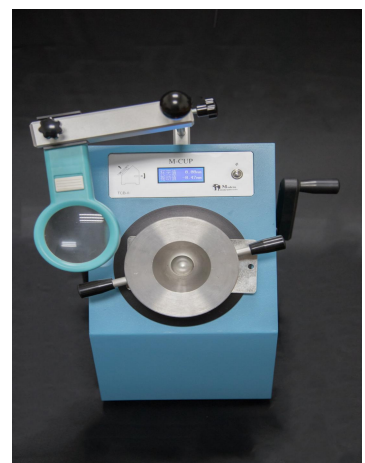
The NEW Modern Instruments TCBII Cupping Tester, designed with a new highly functional geared design for linear force transmission it is designed to aid user friendly testing and a magnifier to provides easy visual inspection

A sample panel with a minimum coating thickness 0.3 mm, is clamped by an upper wheel and manually cupped by a 20 mm circumference hemispherical indenter onto to a die by a drive wheel.

The depth to cause failure is indicated on the digital display, from 0 - 10 mm, in increments of 0.01 mm.

Test Panel

The recommended test panels are rectangular of not less than 70 mm square made of burnished steel with a thickness of not less than 0.3 mm to a maximum of 1.25 mm.



Standards

ISO 1520

BS 3900

DIN 53166

DIN 53233

Technical Specification

Model	TCB -II
Diameter of top steel ball	20mm
Maximum jacking height	10mm
Height display digit	00.00mm (graduation 0.01mm)
Height display accuracy	0.05mm
Jack-up speed by shaking hands	0.20mm/r
Recommended test plate size	70×70×0.30~1.25mm (L× W× H)
Diameter of top steel ball	20mm
weight	24kg



Test Procedure

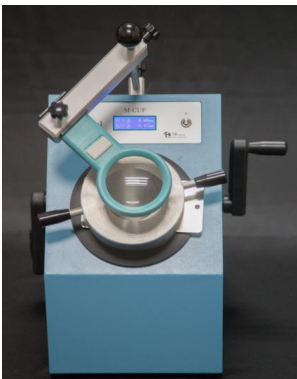
Hold the test panel firmly between the retaining ring and the die with the coating towards the die and with the hemispherical end of the indenter in contact with the test panel (zero position of the indenter).

Adjust the panel until the central axis of the indenter intersects the panel.

Advance the hemispherical end of the indenter into the test piece at a constant rate until the specified depth is reached i.e. until the indenter has travelled this distance from the zero position.

Using normal corrected vision or, by agreement, a magnifier, examine the coating of the test panel for cracking and/or detachment from the substrate.

When removing the test panel, first slacken the indenter hand-wheel to relieve pressure, then unscrew the upper clamping wheel to free the panel.



**MODERN
INSTRUMENTS**



No 18, Xuwang Road, QingPu District Shanghai, China



+86 2159884839



info@moderner.com