



JINAN TEST MACHINE CO., LTD

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Cupping (Erichsen) Testing Machine

Application & Features:

The cupping testing machine is used to test extend and stretch capacity of metal thin plate and band. It is the only instrument to test the metal's plastic deformation. Also it can be used to test non-ferrous metal's anisotropic character if adding impact cup mould. The machine adopts high precision raster measure instrument to test Erichsen value so it has a high testing precision. It adopts the electric control machinery onload and LCD spoke sensor so it raised the testing precision of the main test force and accuracy of controlling sample breaking.

Standards:

ISO20482: 2003 Metallic materials-Sheet and strip-Erichsen Cupping Test, GB/T4156-2007 Metallic materials-Sheet and strip-Erichsen Cupping Test

Main Technical Specifications:

- Thickness of holding sample: 0.05~2mm (with high precision sensor, it can achieve ultrathin plate test.
- (Special order: non-standard cup: 0.05~3mm; non-ferrous metal plate: 0.1~2mm)
- Max capacity: 60kN
- Range of testing force: 0.2kN~60kN
- Test accuracy: error less than $\pm 1\%$
- Test speed: 2~100mm/min (at any speed, it can keep constant speed control)
- Distance of punch pin running: 40mm
- Distance of holding pistons running: 40mm
- Max load of punching: 60kN
- Max load of holding: 10kN
- Resolution of Erichsen value: 0.01mm
- Hydraulic oil: N46 hydraulic oil
- Display: LCD Monitor

Special order: 1. non-standard cupping puncher ball diameter: $\Phi 3 \pm 0.02$ 、 $\Phi 8 \pm 0.02$ 、 $\Phi 15 \pm 0.05$ mm and full set moulds; 2. standard punching cup nonferrous metal plate: 0.1~2mm and non-standard punching cup nonferrous metal plate 0.1~3mm and full set moulds; 3. Cupping testing machine according with American and Europe standard.



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GBS-60 Digital Cupping (Erichsen) Testing Machine



GBW-60 Computer Control Cupping (Erichsen) Testing Machine

