

# Digital Brinell Hardness Tester with Closed Loop, Load Cell Technology

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## Options:

- NIST/ASTM certified test blocks, penetrators and kits are available. Please refer to pages 36-38.



## Features:

- Load Cell driven system provides precise control of test force application
- Direct reading
- Engineered to obtain highly sensitive and accurate readings
- Perfect for laboratories, workshops, tool rooms, inspection labs, etc.
- Measuring Range: 8-650HBW

Hardness Range(HBW)	Error (%)	Repeatability(%)
≤ 125	± 3.0	≤ 3.0
125 < HBW ≤ 225	± 2.5	≤ 2.5
> 225	± 2.0	≤ 2.0

## Specifications:

### Loads:

F3000kgf (29400N), 1500Kgf (14700N), 1000Kgf (9800N), 750Kgf(7355N),500Kgf (4900N), 250Kgf (2452N), 187.5Kgf (1839N), 125Kgf (1226N),100Kgf (980N), 62.5Kgf(612.9N)

### Load dwell duration:

2s-99s, can be set and stored

### Tungsten Carbide Ball indenter:

10mm, 5mm, 2.5mm

### Measuring range:

8HBW-650HBW

### Magnification of the microscope:

20X

### Resolution capability of the microscope:

0.005mm

### Max measurable height:

230 mm

### Max measurable depth:

140 mm

### Dimensions:

530mm x 260mm x 750mm

### Power supply:

220/110 V, 50/60 Hz, 4A

### Weight:

224lbs.

**900-355**

Innovative closed-loop technology. The tester incorporates the latest load cell technology. The test load is applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit. The result is highly accurate Brinell hardness measurements at all test loads up to 0.5%. The common load overshoot or undershoot as known from traditional dead weight, or open-loop, systems is eliminated. The absence of mechanical weights not only eliminates friction problems but also makes the equipment less sensitive to misalignments caused by vibrations.