

Tall Frame Digital Brinell Hardness Tester with Closed Loop, Load Cell Technology



Optional Accessory:
PHT-5000 Optical Brinell Scanner
• See Page 41



Features:

15.7" Vertical Capacity

- Test load selection by keypad and shown on the LCD screen
- Fully automatic test cycles. The Brinell hardness Tester features a fully automatic test cycle, load application, dwell, unloading, is performed fully automatically. This greatly improves reproducibility of test results since operator influence is eliminated.
- Selectable dwell times by screen. The indenter, load, and other test information are shown clearly on the large LCD screen.
- The directions for 0.102F/D2 ratios selecting according to the materials and hardness range can be shown on the screen.
- Equipped with a 20X optical microscope to measure the diameter of Brinell indentation.
- Brinell Hardness Calculator(BHC) makes the hardness value calculation easy and convenient.

Options:

- NIST/ASTM certified test blocks, penetrators and kits are available. Please refer to pages 50-52.

PLEASE CONTACT US FOR DETAILS.

Included Accessories:

- Calibration block 125-350HBW10/3000
- Calibration block 125-350HBW10/1000
- 10mm Tungsten Carbide Ball indenter
- 5mm Tungsten Carbide Ball indenter
- 2.5mm Tungsten Carbide Ball indenter
- Mounting screws for indenter
- Flat anvil
- "V" shape anvil
- 20X microscope
- Dust cover

Technical Specifications:

Loads: 3000kgf (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: 3.18HBW~658HBW

Magnification of the Microscope: 20X

Resolution capability of the Microscope: 0.005mm

Accuracy of Brinell Hardness Value:

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

Max measurable height: 430 mm (w/large anvil)

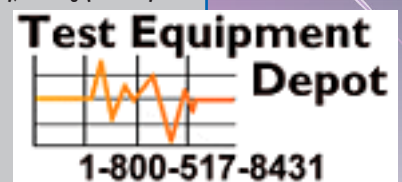
450mm (w/small anvil)

Max measurable depth: 200mm

Dimensions: 600mm×300mm×1000mm

Power supply: 220/110 V, 50/60 Hz, 4A (Convertible)

Weight: 205kg (gross) 165kg(net)



900-356

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.