900-358 Digital Motorized BRINELL Hardness Tester w/Auto Z-Axis

Auto Z-Axis!

phase II+ "The Source of Quality"

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

Specification:

- 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.
- The gross weight of the tester is 50% less than the traditional dead weights type tester.
- Test load selection by keyboard and LCD screen.
- Fully automatic test cycles. The Brinell hardness Tester features a fully automatic test cycle, load application, holding, 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 showing on the screen.
- Equipped with a 20X optical microscope to measure the diameter of Brinell indention.
- Brinell Hardness Calculator (BHC) make the hardness value calculation easier and convenient.

Technical data:

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～ 58HBW
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: 230 mm
Max measurable depth: 140 mm
Dimensions: 530mm×260mm×750mm
Power supply: 220/110 V, 50/60 Hz, 4A
Weight: 110kg