

# HARDNESS TESTERS

## 900-355 Digital - Load Cell - Motorized - Brinell

Innovative closed-loop technology. The Brinell hardness 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 whole 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/D<sup>2</sup> 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 indentation.

Brinell Hardness Calculator (BHC) make the hardness value calculation easier and convenient.



Test Loads:	3000kgf (29400N), 1500Kgf (14700N), 1000Kgf (9800N), 750Kgf (7355N), 500Kgf (4900N), 250Kgf (2452N), 187.5Kgf (1839N), 125Kgf (1226N), 100Kgf (980N), 62.5Kgf (612.9N)
Test Range:	8 – 650HBW
Loading Method:	Automatic (Loading/Dwell/Unloading)
Hardness Reading :	Indentation Displaying and Automatic Measuring on Touch Screen
Computer:	CPU: Intel I3, Memory: 2G, SSD: 32G
Conversion Scale:	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBS, HBW
Data Output:	USB Port, VGA Interface, Network Interface
Turret Control:	Automatic Recognition and Shifting (Three Indenters, Two Objectives)
Total Magnification:	20X
Dwell Time::	2-99 seconds
Max. Height of Sample:	9.06" (230mm)
Throat:	5.51" (140mm)
Dimensions:	10.24" W x 20.87" D x 29.53" H
Weight:	243lbs.