

HARDNESS TESTERS

Brinell Hardness Testers



900-357 Digital - Load Cell – Motorized - Brinell

This advanced model has 3 indentors and 2 objectives which covers all common Brinell scales and all loads from 62.5kgf to 3000kgf. The touch screen monitor shows instant Brinell readings and no manual scope is needed.

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 tester 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 unit combines a touch screen computer and brinell hardness tester in one complete Brinell hardness testing package. All the required parameters can be selected on the panel computer. It's clear display and touch screen make it easy to use and eliminates user error. The clear video screen using it's CCD interface will directly display the dynamic indentation image, lock the image and automatically measure the Brinell hardness. The operator can choose the selectable conversion values among the hardness scales, save the results of each measurement and generate the image report. The load of test forces is accomplished using state of the art load cell system combined with precision mechanical drive.

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| Test Force (kgf) | 62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf |
| Test Force (N) | 612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N |
| Test Range: | 3.18 – 653HBW |
| Loading Method: | Automatic (LoadingDwell/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) |
| Objectives: | 1X, 2X |
| Total Magnification: | 20X, 40X |
| Dwell Time:: | 0-95 seconds |
| Max. Height of Sample: | 10.24" (260mm) |
| Throat: | 5.91" (150mm) |
| Standards: | ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2 |
| Dimensions: | 12.99" W x 23.62" D x 46.06" H |
| Weight: | 331lbs. |

