

7000 SERIES Production Brinell Hardness Tester

Load Cell Control, Long Stroke, High Capacity



7000 SERIES

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The *7000 Series Production Brinell Hardness Testing System* was developed in response to demand for a high-speed, high-accuracy Brinell hardness tester with a large capacity and a long indenter stroke and flexible design.

The Series 7000 applies a **high-accuracy load, controlled through a precision load cell** operating in a dynamic feedback loop to constantly monitor and control the load. The tester is ideal for those production applications which demand *high accuracy* and *excellent repeatability* of load application, along with adjustable time at load and the ability to handle a range of test sample sizes efficiently.

Although the Series 7000 can be used with any standard Brinell microscope, the benefits of the Series 7000 become more evident when used with the Newage Lab B.O.S.S.[®] Brinell Optical Scanning System to measure indentations (*upper right, opposite page*). This combination provides a high production rate and fast automatic measurement capabilities without operator influence, previously found only in the advanced Newage Automatic Brinell Testers, but at a lower price. For more information on the B.O.S.S. system, see our website at www.hardnesstesters.com.

If the Series 7000 appears to fit your application, please contact Newage Testing Instruments at the toll free number or email address shown below for additional information. If not, Newage developed the Series 7000 to integrate into a comprehensive line of Brinell hardness testing instruments to provide the widest possible range of test capabilities. Ask about one of our other four product lines of Brinell testers. See why Newage Testing Instruments remains the *technology leader in hardness testing*.



The basic 7000 Series Tester package includes the hydraulic unit and pedal start switch. The system has both an elevating screw and 4" hydraulic cylinder stroke. The elevating screw can be removed to increase the capacity even more.



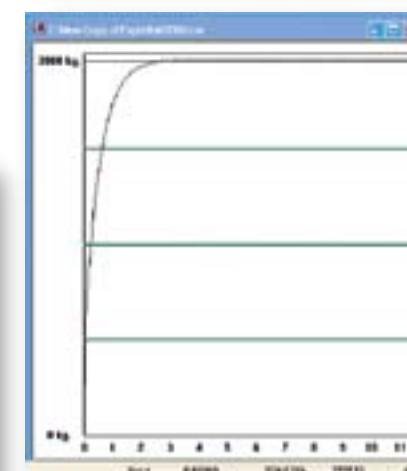
The 7000 Series with a larger 35" vertical capacity frame can provide a wide range of capacities - with or without a removable elevating screw (shown with the standard hydraulic package).

The test head includes a high accuracy load cell. Together with the electronics and hydraulics, the tester maintains closed-loop control of the load.



The standard test stand can incorporate the B.O.S.S. Brinell Optical Scanning System for a complete, high-accuracy Brinell hardness testing solution, model PB7100.

The B.O.S.S.[®] Brinell scanner can be integrated with the tester to automatically make an optical Brinell measurement for each test.



A graph of the load application shows the level of control with no overshoot or undershoot and no tail-off over time.

The bracket mount model can be placed on any suitable support, such as the I-beam seen here. This model provides unlimited vertical capacity.



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Specifications

Standard Capacity	10"/16" (with/without elevating screw), 24", 36", 48" optional
Throat Depth	8" Throat, standard (larger capacity optional)
Indenter Stroke	4" (Longer stroke lengths optional)
Standard Tester Dimensions	16" W x 25" D (Footprint) x 43" H
Standard Hydraulic Dimensions	approx 10" x 11" footprint x 25" H
Load Control System	Dynamic feedback loop controlled through a load-cell
Load Tolerance	Within ASTM E-10 requirements
Loads	1 Fixed Load, 500, 1500, or 3000 kg. (Other or Multiple loads optional)
Time-at-Load Selections	2, 5, 12 seconds
Electric	115 V, 60 Hz standard, optional 330/440 V, 3 phase
Test Method	Conforms to ASTM E-10

DEPEND ON NEWAGE FOR STANDARD OR CUSTOM HARDNESS TESTERS AND EXPERT CALIBRATION/SERVICE SUPPORT

Your relationship with the manufacturer of a sophisticated piece of equipment does not end with the purchase. Newage is a major service company as well as a manufacturer and distributor. We have a national network of direct service people and representatives to make certain your system stays up and running. And Newage has been providing service for hardness testers for decades.



In our field service we calibrate and service many makes and models of hardness testers and can often handle all of your needs in one visit. We carry a wide range of parts on the vehicle for immediate repairs. Newage is accredited to ISO Guide 17025 by A2LA for Brinell, Rockwell and microhardness tester calibration. Next time you have a need, give Newage a call.

OTHER NEWAGE BRINELL HARDNESS TESTING EQUIPMENT



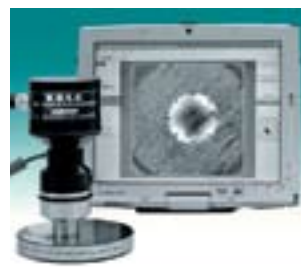
Automatic
In-Line
Brinell System



NB-3010
Multi- Load
Bench Brinell



Pin Brinell Low Cost
Portable Impact
Tester



B.O.S.S.® Brinell
Optical Scanning
System



HiLight® LED-
illuminated
Brinell scope

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