

The NEWAGE® NB-3010 Series is a benchtop, Brinell hardness tester ideal for occasional lab testing to high frequency testing on rough and large specimens such as castings, forgings, structural members and other components with substantial wall sections. The NB3010 is ideal for foundry environments, metallurgical plants, industrial laboratories, and virtually any application where the Brinell scale is utilized to determine hardness between 8-650 HBW. The NB3010 is an automatic hardness tester that uses pneumatically actuated deadweights to precisely apply loads at 187.5, 250, 500, 750, 1000, 1500 or 3000 kgf. Dwell times can be selected from 12, 30, or 60-second rates with a pushbutton. The instrument has LEDs that indicate Loading, Dwell Time and Unloading test status. The instrument is supplied with a precision 10mm tungsten carbide ball indenter with NIST Certificate. The resulting indentation can be measured optically with the optional HiLight® 20X Brinell scope or with our optional B.O.S.S. Brinell Optical Scanning System. Using our optional software, a personal computer is used to display and measure test impressions; to store test results; and to print test reports. Operator influences and bias is eliminated using the B.O.S.S. software.

The NB-3010 is supplied with the following standard accessories: 10mm tungsten carbide ball indenter, 3-inch Vee anvil, 3-inch flat anvil, 4.125-inch flat, vinyl cover, tools for setup, accessories case, spare fuse and conversion chart. Options include 2.5 mm and 5 mm tungsten carbide ball indenters, foot pedal controller, 20X Brinell scope, and our B.O.S.S. Brinell Optical Scanning System for automated measurement and data analysis. The NB-3010LB is supplied with the same standard accessories as the NB-3010 plus our B.O.S.S. Brinell Optical Scanning System.

Features

- Meets ASTM E-10 and ISO 6506
- Deadweight Loading at better than 1% Accuracy
- Pneumatic Actuation Ensures Constant Applied Loading and No Overload Conditions
- Simple, Pushbutton Operation is Automatic
- No Warm-Up Period Necessary for Optimum Productivity
- Minimal Maintenance Requirements
- Optimize Measurement with Optional B.O.S.S.® Brinell Optical Scanning System

Specifications

Vertical Capacity:	9-inches (229 mm)
Throat Depth:	4.5-inches (114 mm)
Load Range (kgf):	187.5, 250, 500, 750, 1000, 1500, 3000
Dwell Times:	12, 30, 60 seconds
Air Requirements:	60 psi, 0.4 cfm
Power:	110Vac, 60Hz
Operating Temp:	50°F to 120°F 10°C to 49°C
Warranty:	1 year



The optional B.O.S.S.® Brinell Optical Scanning System increases testing efficiency and operator productivity while eliminating operator bias compared to analysis using a Brinell scope.

Quality Assured.

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Hardness Testing

Ordering

NB3010 Series

Model	Description
NB3010	Brinell Hardness Tester, Pneumatic Dead Weight Method
NB3010LB	Brinell Hardness Tester with B.O.S.S. Brinell Optical Scanning System

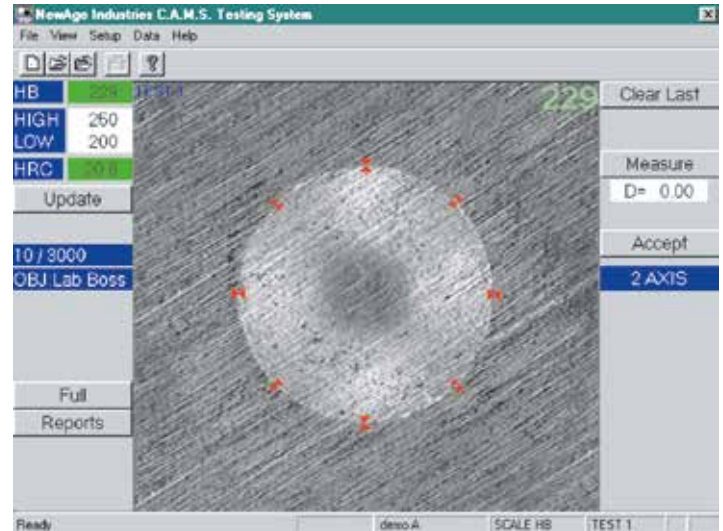
Options, Accessories and Spares

Part No.	Description	Standard	Optional
HB/3007	Flat Anvil, Large	■	
HB/3008	Flat Anvil, Small	■	
HB/3009	"Vee"Anvil, 3" Diameter	■	
HB/3010	Indenter Extension, 1-1/2"		●
HB/3030*	Tungsten Carbide Ball Indenter, 10 mm	■	
BR/3030*	Slim Style Carbide Ball Indenter, 10 mm		●
HB/3031*	Tungsten Carbide Ball Indenter, 5 mm		●
BR/3031*	Slim Style Carbide Ball Indenter, 5 mm		●
HB/3006*	Tungsten Carbide Ball Indenter, 2.5 mm		●
HB/SP10	Anvil Table, 8" for NB3010		
BR/3152*	Carbide Ball only, 10 mm		●
BR/3155*	Carbide Ball only, 5 mm		●
HB/3006B*	Carbide Ball only, 2.5 mm		●
HB-109	Indenter Cap only, 10 mm		●
HB-110	Indenter Ball Holder, 10 mm		●
AT/5510	Flex Arm Test Point Illumination Light		●
HB130B	Bench Cabinet, Metal, for Tester only		●
NISP20	Protective Cover for Tester, Vinyl	■	

Note: Ball indenters and replacement Balls are supplied with a NIST certificate.

Optional Brinell Scopes and Accessories

Part No.	Description
35-450	Pocket Brinell Scope, 20X Fixed Focus, with Case
5620-05	HiLight Brinell Scope, 20X, LED Lighting Adjustable Focus with Case
3541C	Brinell Scope Checking Scale, with Cert
MC-0143	Battery, for HiLight Scope (CR2 3V Lithium)



Shown: Analysis of a Brinell impression using the optional B.O.S.S. system

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