

The Brinell BH3000 Hardness Tester is a sturdy, 3000 kgf (30 kN) hardness tester for the higher load Brinell scales (>187.5 kgf). Designed with a rugged construction to withstand the harshest environments, this reliable tester offers a high-rigidity and closed-loop load cell technology for accurate and safe load applications. Key features include a clamping device for securing parts to the exchangeable anvil, an easy-to-use user interface to set up and operate the tester, a built-in keypad calculator that accurately presents HB hardness values, and an LCD screen. An external microscope is available as an optional accessory.



Applications

- Hardness from castings and forgings
- For flat and cylindrical work pieces
- Wide application within the automotive industry
- Heavy workshop testing
- Sample testing or quality control testing
- Various types of steels
- (Cast) Aluminum and other non-ferrous metals



Technical Specifications

Hardness Scales	Brinell
Display	Hardness HB value (after entering diagonal length into keypad calculator); Mean diagonal length; Test force; Dwell time; Ball diameter; Conversion; Limits
Hardness Resolution	0.1 unit if HB < 100; else 1.0 unit
Standards	ISO 6506, ASTM E10, and JIS
Test Load Type	Load Cell Closed-Loop Control System
Test Cycle	Automatic
Test Loads	187.5, 250, 500, 750, 1000, 1500, 3000 kgf
Brinell Scales	HBW 10/3000, HBW 10/1500, HBW 10/1000, HBW 10/500, HBW 10/250, HBW 10/100, HBW 5/750, HBW5/250, HBW 2.5/187.5
Indenter Types (optional)	Brinell Balls 1 - 2.5 - 5 - 10 mm
Load Duration	2 - 99 sec
Specimen Accommodation	Vertical space 280 mm (11 in) Horizontal space (from center-line) 130 mm (5 in) External surfaces roughly grinded, Ra < 21.6 µm
Cylindrical Surfaces	Down to 3 mm (0.1 in) diameter
Machine Dimensions (L x W x H)	608 mm (23.9 in) x 265 mm (10.4 in) x 1000 mm (39.5 in)
Machine Net Weight	250 kg (550 lbs)
Power Supply	110-220VAC, 50/60 Hz
Optics	Optional Measuring microscopes: Magnification 20X, resolution 50.0 µm, range 7 mm Magnification 40X, resolution 12.5 µm, range 4 mm Magnification 60X, resolution 12.5 µm, range 2 mm



Test Blocks and Indenters

Wilson® Hardness offers a wide range of test blocks. All certified test blocks are issued with a traceable NVLAP, DKD, or UKAS certificate, according to internationally recognized standards including ISO and ASTM.

We also offer certified Brinell, Vickers, and Rockwell indenters.



Accessories

- Brinell indenters
- Hardness reference blocks with NVLAP, UKAS, or DKD certificate
- Various testing tables and XY-Stages
- Precision vices, V-blocks, and special clamps
- Clamping and protection attachment
- PC software databases for demanding applications
- Rugged floorstand with spindle hole

Inquire about additional Brinell accessories.



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