

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.



High-load Brinell Tester, up to HB 10/3000

LCD screen that clearly displays results, statistics per test series, and language settings

Integrated hardness calculator, hardness diagonals, value, statistics, and conversions

Load cell technology, means force accuracy and efficiency

Heavy-duty clamping and protection device

Various flat and V-anvils available, for most product geometries

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.



Wilson Hardness
Americas • sales@wilson-hardness.com
Europe • europe.sales@wilson-hardness.com
Asia • asia.sales@wilson-hardness.com
www.wilson-hardness.com

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