Wilson® BH3000
Brinell Testing

The Brinell BH3000 Hardness Tester is a sturdy, 3000 kgf (30 kN) hardness tester for the higher load Brinell scales (>62.5 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.

Interface
- LCD screen that clearly displays results, statistics per test series, and language settings
- Integrated hardness calculator, hardness diagonals, value, statistics, and conversions

Load Selection
- Load cell technology, means force accuracy and efficiency

Specimen Clamping
- Heavy-duty clamping and protection device

Specimen Support
- 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

Specifications

	BH3000
Hardness scales	HB
Display	Hardness HB value (after entering diagonal length into key-pad 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 Compliant	ISO 6506, ASTM E10, JIS
Test Load Type	Load Cell Closed-Loop Control System
Test Cycle	Automatic
Test Loads	62.5, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
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, HBW 2.5/62.5
Indenters (optional)	Brinell Balls: 2.5, 5, 10mm
Load Duration	2 - 99 sec
Specimen Accommodation	Vertical space 11in (280mm) Horizontal space (from center-line) 5in (130 mm) External surfaces roughly grinded, Ra < 21.6 µm
Cylindrical Surfaces	Down to 0.1in (3mm) diameter
Power	100 - 240VAC, 60/50Hz
Optics (optional)	External measuring microscope; mechanical 20x, 40x or 60x, digital King Scan IV PC based measurement system

Approx. Weight: 550 lbs [250kg]

Test Blocks and Indenters

High quality Wilson® hardness standardized test blocks from Buehler® are calibrated in compliance with ASTM E384, ASTM E18, ASTM E10, ISO 6507, ISO 6508, or ISO 6506 where appropriate. Rockwell C standardized test blocks are directly NIST traceable. All calibrations and certifications are performed in an ISO/IEC 17025 compliant facility.

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.

For a complete listing of consumables, please refer to our Product Catalogue or contact your local Buehler Sales Engineer. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.

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