



# Wolpert Wilson® Instruments Brinell 3000BLD Digital Brinell Tester from 187.5 - 3000 kgf

The Brinell 3000BLD is a sturdy, 20 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. A few key features include an external microscope with analog reading to measure the diagonals; an easy-to-use human interface to set up and operate the tester; a built-in keypad calculator that accurately presents HB hardness values; and an LCD screen that clearly displays results, statistics per test series, and language settings. Additionally, the 3000BLD/T hardness tester provides the Brinell depth scales, resulting in direct HBT readings on the display.



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

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

Load cell technology allows for force accuracy and efficiency

Heavy-duty clamping and protection device

Various flat and V-anvils available

## Applications

- Hardness from castings and forgings
- For flat and cylindrical work pieces
- Wide application within the automotive and aerospace industry
- Heavy workshop testing
- Sample testing or quality control testing
- Steels, non-ferrous metals
- Cemented carbide, ceramics, stainless steels

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## Technical Specifications

Model Number	Brinell 3000BLD
Hardness Scales	Brinell
Optics	<p>Optional Measuring microscopes:</p> <p>Magnification 20X, resolution 50,0 µm, range 7 mm</p> <p>Magnification 40X, resolution 12,5 µm, range 4 mm</p> <p>Magnification 60X, resolution 12,5 µm, range 2 mm</p>
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 Vickers Diamond 136°
Load Duration	2- 99 sec
Data Output	Thermal printer integrated and Bi-directional RS-232
Specimen Accommodation	<p>Vertical space 280 mm (11 in)</p> <p>Horizontal space (from center-line) 130 mm (5 in)</p> <p>External surfaces roughly grinded, Ra &lt; 21.6 µm</p>
Cylindrical Surfaces	Down to 3 mm (0.1 in) diameter
Machine Dimensions	265 mm (10.4 in), 608 mm (23.9 in), 1000 mm (39.5 in)
Machine Net Weight	250 kg (550 lbs)
Power Supply	110-220VAC, 50/60 Hz



### Test Blocks and Indenters

Wolpert Wilson Instruments offers a wide range of reference blocks. All certified reference 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, Vickers, and Rockwell indenters
- Objectives for 20x, 44x, 70x total magnification (140x is in standard delivery)
- 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

Please ask for a full accessories catalog.



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