

BRINELL HARDNESS TESTER 3000BLD & 3000BLD/T™

Digital Brinell tester with motorized load cell, closed loop system

Sturdy, regular 30kN Brinell tester for the higher load Brinell scales (> 187.5kgf).
Rugged construction to withstand the harshest environments.
Accurate, reliable and durable tester at a very affordable price.
High rigidity and close loop loadcell technology to ensure accurate and safe load application.
External microscope with analogue reading to measure the diagonals.
Built in keypad calculator presents HB hardness value on display without mistakes.
Easy to use human interface to set up and operate the tester.
Clear menu displayed on a big LCD, statistics per test series, language setting.

The 3000-BLD/T also provides the Brinell depth scales, resulting in direct HBT readings on display.

TECHNICAL SPECIFICATIONS

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
Model 3000-BLD/T	HBT and all above scales
Hardness resolution	0.1 unit if HB < 100; else 1.0 unit
Test loads(kgf)	187.5, 250, 500, 750, 1000, 1500, 3000
LCD display	Hardness HB value (after entering diagonal length into keypad calculator); Mean diagonal length; Test force; Dwell time; Ball diameter; Conversion; Limits
Test force application	Closed loop controlled load motor
Load duration	Adjustable application and dwell time 2 - 99 sec
Data-output	Thermal printer integrated and Bi-directional RS-232
Accuracy Conform	EN-ISO 6506 and JIS
Specimen accommodation	Vertical space 280mm (11") Horizontal space (from centre-line) 130mm (5")
Specimen access	External surfaces roughly grinded, Ra <21.6 µm
Power supply	110-220VAC, 50/60 Hz
Measuring microscope (optional)	Magnification 20X, resolution 50,0µm, range 7mm Magnification 40X, resolution 12,5µm, range 4mm Magnification 60X, resolution 12,5µm, range 2mm
Machine dimensions	Width 265mm, depth 608mm, height 1000mm
Machine weight	Ca. 250kg



Measuring microscope



Integrated thermal printer

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Accessories

Check with your WOLPERT agent for specified packages included with the hardness tester as standard delivery.

Check latest accessories update on:
www.wolpertgroup.com

Measuring microscopes with or without light source:
- 20X magnification, resolution 50,0 µm, range 7mm
- 40X magnification, resolution 12,5 µm, range 4mm
- 60X magnification, resolution 12,5µm, range 2mm
Indenters Brinell with carbide ball 1 – 2,5 – 5 – 10mm
All indenters are certified DKD or UKAS or NIST
Spring-mounted clamping attachment, to hold test parts during testing
Testing table diam 80mm
Testing table diam 235mm
V-anvil 1-4mm
V-anvil 3-10mm
V-anvil 7-20mm
V-anvil 15-45mm
V-anvil 20-60mm
V-anvil 60-150mm
Table with magnetic insert
Table with anvil for point support
Table with diamond for point support
Ball-mounted testing table diameter 80mm
Vice, opening 0-80mm
XY stage manual
XY stage manual, swivelling
Spindle protection tube
Steel cabinet with wooden table (for correct hardness tester placement)
Dust protection cover Wolpert
Thermal printer
SPC Software (via RS-232 interface)
Object micrometer with test certificate
Hardness reference blocks with
DKD / UKAS / NIST / WOLPERT WORKS certificate

