

Product Information ZHB 3000 Full Load Brinell Hardness Tester

The ZHB 3000 is an inexpensive dead weight, bench mounted Brinell hardness tester which meets the needs of a wide range of Brinell applications, ranging from occasional laboratory testing to continual testing in a foundry environment with high accuracy and low service costs.

Comprehensive test force range:

62.5, 187.5, 250, 500, 750, 1000, 1500, 3000 kgf



Range of Applications

- Brinell testing to ISO 6506 and ASTM E10
- UKAS accredited.

Deadweight Design for High Accuracy

The ZHB 3000 system applies precise loads using a dead-weight design. A pneumatic cylinder ensures the load descends smoothly thus ensuring there is no impact effect on the test specimen and lifts the load at the end of the test cycle. This simple load system does not require frequent monitoring or repeated calibration for each load change.

Economical to Own and Operate

This simple and rugged Brinell testing system comes at a very competitive price.

Low Service Requirements

The ZHB 3000 has few moving parts which are critical for proper load application. High quality materials and parts are used to ensure the tester has a long life. This is essential for industrial Brinell hardness testers which are often used in hostile environments.

Easy Semi-Automatic Test Operation

The semi-automatic test sequence ensure the test is performed in accordance with internationally recognised standards. The operator raises the elevating screw until the specimen is seated. At the press of a button the test force is applied and then removed after a preset time. Different loads can be applied by adding or removing weights. Three push buttons control the test sequence dwell time.

Specification

Type	Test	Scales (Ø/kgf)	Total Load
ZHB 3000	Brinell	2.5/62.5, 2.5/187.5 5/62.5, 5,250, 5,750 10/250, 10/500, 10/1000, 10/1500, 10/3000	62.5, 187.5, 250, 500, 750, 1000, 1500, 3000 kgf

Impression Measurement Options



Manual Measurement HiLight Portable Microscope

- X20 Magnification
- Built in illumination
- Robust construction
- No influence from ambient light
- Eyepiece focusing
- Clear 0.05mm resolution
- 7mm measuring graticule
- Long battery life, approx 200 hours
- Complete with:
 - Safety strap
 - Storage box
 - Conversion chart

Automatic Measurement BOSS Microscope



- Automatic measurement
- Eliminates operator influence
- ISO 6506 & ASTM E10
- Result computed instantly
- Unlimited test files & records
- Tolerance & warning levels
- X-Bar & R charts
- Histograms & scale conversions
- No special operator training
- Optional industrial cabinet

Standard Features

Model	IB 83000
Automatic Test Cycle	✓
12, 30 or 60 Second Load Dwell Times	✓
Dead Weight Loading Mechanism	✓
Low Service Requirements	✓
Simple Loading Mechanism	✓

Standard Accessories

100mm Ø flat anvil	✓
75mm Vee anvil	✓
10mm Ø tungsten carbide ball indenter	✓
Brinell test block	✓
Vinyl Cover	✓
Operation Manual	✓
Wall Chart	✓
Accessory case, spare fuse and tools for setup	✓

Optional Accessories

Specially designed component fixtures	✓
2.5mm and 5mm Ø ball indenters	✓
Foot pedal switch	✓

Calibration	ISO 6506 ASTM E10
Standard Specimen Accommodation	Vertical 228 mm (9") Throat 114 mm (4.5")
Services	5 A single phase 220 or 110 V
Shipping Dimensions	Height 865 mm Width 228 mm Depth 710 mm Weight 260 kg

Indentec Hardness Testing Machines Limited,
Lye Valley Industrial Estate,
Bromley Street, Lye, Stourbridge,
West Midlands, United Kingdom.
Telephone: 00 44 (0) 1384 896949
Fax: 00 44 (0) 1384 424470
Email: mail@indentec.demon.co.uk
Web page: www.indentec.com

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HARDNESS TESTING MACHINES LIMITED

