



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

TOUCH SCREEN DIGITAL BRINELL HARDNESS TESTER



- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

BBH-3000T



ADVANTAGES: -

1. Equipped with touch screen panel, menu structure, easy for operation.
2. Closed loop with load cell, test force from 62.5kgf to 3000kgf.
3. Automatic load - dwell - unload main test force.
4. With 10 grades test force, each test force with automatic calibration function.
5. One time casting shell, not metal sheet welding one by one, structure more stable, ensure test result with higher accuracy;
6. Special design low nose design, suitable for all kinds of labs.
7. Can work with Brinell Indentation Image Measurement software system, support on PC do auto measurement or manual measurement, and generate test report automatically.
8. Operation steps: 1) Put specimen on working table, then manual load pre-load, then machine automatic load main force (load - dwell - unload automatically), make an indentation on specimen; 2) Put the specimen under portable measuring microscope to measure D1, D2 value; 3) Input D1, D2 value into machine, then the hardness value will display on LCD screen directly, no need to check table and calculate, operation very easy.

TEST PRINCIPLE: -

The typical test uses a 10 millimetres (0.39 in) diameter steel ball as an indenter with a 3000 kgf (29 kN; 6600 lbf) force. For softer materials, a smaller force is used; for harder materials, a tungsten carbide ball is substituted for the steel ball.

APPLICATION FIELDS: -

1. Quality control of Industrial production (machinery manufacturing, metallurgy plants, etc.)
2. Research & Inspection of Inspection Institution and universities laboratories.
3. Ferrous and nonferrous metals, Hardened steel, tempered steel, annealed steel, hardened steel, sheet of various thicknesses, carbide materials, powder metallurgy materials, etc.

**SPECIFICATION: -**

Model No.	BBH-3000T
Brinell Scale	HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/100, HBW10/1500, HBW10/3000, HBW10/250, HBW10/500, HBW10/1000
Test Force	62.5kgf(612.9N), 100kgf(980.7N), 125kgf(1226N), 187.5kgf(1839N), 250kgf(2452N), 500kgf(4903N), 750kgf(7355N), 1000kgf(9807N), 1500kgf(14710N), 3000kgf(29420N)
Test space	230*155mm (H*D)
Minimum measure unit	0.01mm
Test force accuracy	62.5-250Kgf ≤ 1% ; 500-3000Kgf ≤ 0.5%
Dwell time	5-60s
Test range	8-650HBW
Microscope	20X
Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231
Data display	LCD touch screen
Power supply	AC220 ±5%, 50-60Hz
Dimension	Machine: 550x210x750mm; Package: 730*450*980mm
Weight	Net weight: 120kg; Gross weight: 140kg

STANDARD ACCESSORIES: -

Item Name	Q'ty	Item Name	Q'ty
Measurement microscope	1	Diameter 2.5, 5, 10mm Hard Alloy Steel Ball Indenter	Each 1
Standard Hardness Blocks (HBW10/3000, HBW10/1000, HBW2.5/187.5)	3	Large, Medium, "V-shape Testing Table	Each 1
Power Cable	1	Quality Certificate, Warranty card	Each 1
RS232 cable	1	Manual book	1