

# Digital Brinell Hardness Tester XHB-3000Z



## Description:

- XHB-3000Z uses a pressure sensor to replace the traditional method of using heavy weights, making the machine more accurate
- XHB-3000Z operation is controlled by CPU with automatic switching between the objective lens and the indenter. A mechanical and electronic double matching switching system is used for very high accuracy location of the lenses and indenter
- XHB-3000Z can be used for cast iron, nonferrous and alloy materials, various annealing, hardening and tempered steels and especially soft materials like aluminium, lead, tin etc.
- XHB-3000Z offers the choice of 10 levels of test force and 13 Brinell hardness scales
- XHB-3000Z has three indenters and two objective lenses on a turret
- XHB-3000Z has automatic selection of indenter and objective lenses, dependent on the scale chosen
- XHB-3000Z test force, dwell time and light intensity can be pre-set
- XHB-3000Z will show the indentation length, the hardness value and the number of measurements



Product Name	Digital Brinell Hardness Tester	
Model	XHB-3000Z	
Testing Force	62.5Kgf 100Kgf 125Kgf 187.5Kgf 250Kgf 500Kgf 750Kgf 1000Kgf 1500Kgf 3000Kgf	
	612.9N 980N 1226N 1839N 2452N 4900N 7355N 9800N 14700N 29400N	
Test Force Control	Closed Loop System	
Test Force Appliance	Automatic (Loading/Dwell/Unloading)	
Time of Test Force Application	2~8s	
Dwell Time	0~60s (5 seconds as a unit)	
Testing Range	(8~650) HBW	
Specification of the Indenter	∅ 2.5 mm, φ 10 mm, Ball Indenter	
Hardness Display	LCD Display	
Magnification of Microscope	20x Mechanical Microscope	
Max. Height of Specimen	260 mm	
Instrument Throat	150 mm	
Accuracy of Brinell Hardness Testing		
Hardness Range	Max. Tolerance	Repeatability
HBW ≤ 125	≤ ±3.5%	≤ 3.5%
125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
HBW > 225	≤ ± 2.0%	≤ 2.5%

## Standard Packing List:

Packing List	Packing List	Packing List	Packing List	Packing List
Machine Mainframe	Mini-Printer	V-Shape Testing Stage	Dust Cover	Spare Fuse 2A
Ball Indenter φ2.5 / 5 / 10	Accessory Box	Large Testing Stage	Hexagon Spanner	Test Block HBW3000/10
1X 2X Objective Lenses	Measuring Eyepiece 20X	Small Testing Stage	Power Cable	Test Block HBW750/5

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