

Vaiseshika

Digital Low Load Brinell Hardness Tester

7005 BHT-LL

7005 BHT-LL is applicable for measuring the cast iron, nonferrous metals and alloys, the steel with treatment of various annealing, quenching and tempering. It is especially suitable to measure the softer metals, such as: aluminum, lead, tin and other materials, which need more accurate measurement.

FEATURES:

- 7005 BHT-LL is a half automatic and intelligent Brinell Hardness testing machine, it adopts the pressure sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- 7005 BHT-LL selection of testing force and dwell time is controlled and monitored on the front panel, it is automatic during the process of loading, dwell and unloading.
- 7005 BHT-LL adopts digital Brinell microscope with adjustable LED illuminator, it does not need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diagonal of indentation and press the length key twice above the Microscope, then the built-in computer can compute the Brinell scale and display the final testing result on LCD display automatically.
- 7005 BHT-LL does not need the operator to read the detail diameter of indentation and check the Brinell testing table, it improves the testing speed and accuracy of hardness testing obviously.

SPECIFICATION:

Product Name	Digital Low Load Brinell Hardness Tester	
Model	7005 BHT-LL	
Testing Force	5Kgf, 6.25Kgf, 10Kgf, 15.625Kgf, 30Kgf, 31.25Kgf, 62.5Kgf 49.03N, 62.29N, 98.07N, 153.2N, 294.2N, 30.65N, 612.9N	
Testing Range	(8-650) HBW	
Loading Control	Automatic (loading, dwell, unloading)	
Lens & Indenter Switch	Auto-Turret	
Magnification of Objective	Observation: 5x/10x & Measurement: 5x./10x	
Magnification of Eyepiece	10x Digital Eyepiece	
Measuring Range	0.6-1.5mm	
Resolution	0.5µm (5x) 0.25µm (10x)	
Dwell Time	0-95s	
Hardness Value	Manual Measuring, Auto reading; Auto Measuring Auto Reading	
Max. Height of Specimen	170mm	
Instrument Throat	130mm	
Power Supply	AC220V/50Hz; AC110V/60Hz	
Dimension (LxW xH)	535x225x580mm	
Gross/Net Weight	75Kg/50Kg	
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231	
Diameter of Ball Indenter	Brinell Scales	
5mm	HBWS/62.5	
2.5mm	HBW 2.5/62.5 HBW 2.5/31.25 HBW 2.5/15.625 HBW 2.5/6.25	
1mm	HBW 1/30 HBW 1/10 HBW 1/5	
Optical System		
Objectives	5x 10x	
Measurement	10x 10x	
Total Amplification	50x 100x	
Indentation Test Range	0.24-3mm 0.24-3mm	
Resolution	0.5um 0.25um	



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