

Brinell Hardness Tester



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Brinell Hardness Tester

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- The Brinell Hardness test that shows the largest indentation among all the hardness tests is able to reflect the comprehensive features of the material, and the test is unaffected by the organizational micro-dioptre and the compositional unevenness of the specimen ; and hence it is a hardness testing with high precision.
- The Brinell hardness tester is widely used in such industrial fields as metallurgy, forging, casting, unhardened steel and nonferrous metals industries, as well as in the laboratories, universities, colleges and scientific research institutes.

				➤ P3
Model No.		THB-D		
Test Forces	N	612.9、980、1226、1839、2452、4900、7355、9800、14700、29400		
	kg	62.5、100、125、187.5、250、500、750、1000、1500、3000		
Testing Range		(8~650) HBW		

Option	HV-LCD	HV-CCD
	 <p style="color: orange; font-weight: bold;">With Video Measuring Device</p> <p>➤P.4</p>	 <p style="color: orange; font-weight: bold;">With Computer automatic measuring System</p> <p>➤P.5</p>

Features:

- THB-D Digital Brinell Hardness Tester is a unified product combining the precise mechanical structure with the computer control by means of the optical, mechanic and electrical circuit system, and so it is the most advanced Brinell hardness tester in today's world.
- The instrument adopts the motorized test force application without weight blocks, and uses 0.5% accuracy compression sensor to feedback the information and the CPU control system to automatically compensate the test force lost during the testing.
- The indentation is directly measured on the instrument through the microscope, and the LCD screen indicates the diameter, the hardness value, and 17 different hardness testing comparison tables as well as the HBW range automatically shown under the present presetting.
- It is possible to preset the load dwell time and the intensity of the light on the window page, and design a F/D2 selection table to facilitate the operation of the user.
- The instrument is completed with a RS232 serial interface connected with a PC for final read-out, the printer and the date storage.



Technical parameters:

Test Forces	N	612.9、980、1226、1839、2452、4900、7355、9800、14700、29400		
	kg	62.5、100、125、187.5、250、500、750、1000、1500、3000		
Testing Range	(8~650) HBW			
Accuracy of Displayed Hardness Value	Hardness Range (HBW)	Max tolerance (%)	Repetition (%)	
	≤ 125	± 3.0	3.5	
	$125 < \text{HBW} \leq 225$	± 2.5	3.0	
	> 225	± 2.0	2.5	
Max. height of the specimen	225 mm	Max. width of the specimen	135 mm	
Amplification of the Microscope	20 X	Output	Built-in printer	
Min Reading Grade of the Drum wheel of the microscope	0.00125 mm	Power	AC220V $\pm 5\%$, 50/60Hz	
Standard accessories	Tables : Large, Small and V-Shaped each Hard Alloyed Steel Ball Indenters : $\Phi 2.5\text{mm}$, $\Phi 5\text{mm}$ and $\Phi 10\text{mm}$ each Microscope 20 X – 1pc Standard Hardness Blocks -- 2pcs HBW 750/5 150-250、HBW 3000/10 150-250			
Package Dimension	655 × 430 × 1025 (mm)	Weight	160 kg	

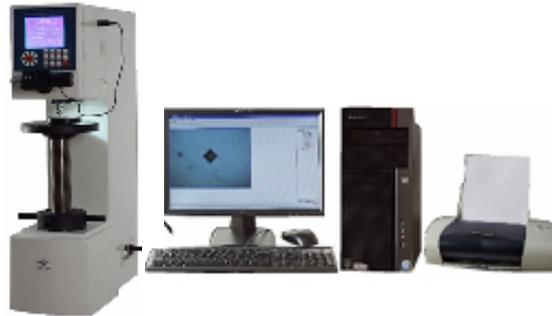


This is a new type hardness tester which is equipped a PS-2006 Video Measuring Device on the main body of Digital Brinell Hardness Tester.

Description:

- PS-2006 Video Measuring Device is composed of CCD measuring equipment, 6.8 inch colored LCD and other relative components.
- With PS-2006 Video Measuring Device, the indentation originally shown on objective of hardness tester is now display on the LCD directly.
- The working procedure is more visual and measuring is more accurate. Avoid seeing weariness and man-made error, and increase working efficiency. Many people can observe the working process at the same time. So the tester is warmly welcomed by many operators.

It combines computer automatic measuring system with Brinell Hardness tester .



Description:

- By means of CCD Camera interface, connect Brinell hardness tester with computer.
- Whole testing operation can be processed by operating keyboard and mouse, therefore the operation is easy and measuring precision is high.
- Maximum decrease man-made error and avoid seeing weariness of the operator. It is an advance hardness tester which can meet the needs of various Brinell hardness testing.

Technical Function and Characteristics:

- ◆ Measuring and control system of the tester adopts high-resolving power image device to display indentation clearly on the screen of computer.
- ◆ Transformed signal by software, automatically measure hardness value of testing indentation.
- ◆ According to the process of point testing and continuously testing, make out the curve drawings of depth and trapezium.
- ◆ Support WIN9X、WINNT、WIN2000、WINXP etc. Operating system.
- ◆ It can test micro Vickers, Knoop, carburized layers, etc.
- ◆ Hardness value can be automatically exchanged with many methods.
- ◆ According to your requirement, you can select high power or low power objective.
- ◆ Definition of image: >540
- ◆ It can adjust contrast and brightness etc. of indentation image.
- ◆ It can dispose image file and date file to open, memory, print etc
- ◆ It can look into the data file and image file at any time, Data file is printed to adopt table format and curvilinear format.
- ◆ Besides standard accessories of original base instrument, this tester also equipped with special tube camera. Computer Printer, etc.