



B.N.C.TOOLING Co.,Ltd.

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Hardness Testing Machines

Vision Brinell Hardness Tester

Vision SHB-3000X

Model	Vision SHB-3000X
Code#	831-155
Price Range	(8~650) HBW
Standard	JJG150-2005, GB/T231, ASTM D-785, ISO6506
Certificate	CE

Vision chip technology

Embedded vision technology is to embed the vision directly into the instrument control system, and process and measure the image directly through the motherboard. It no longer needs the operating system, so as to avoid the crash caused by the driver through the operating system.



Characteristics

The vision brinell hardness Tester Vision SHB-3000X is mainly used to measure the Brinell hardness of materials. The latest frame structure design, the high precision step-control system and the more intuitive measurement method are adopted. The structure is more stable, the control accuracy is higher, the time and effort are saved, and the accuracy is improved by an order of magnitude.

The machine adopts electronic control automatic loading, computer software programming, high-power optical measurement, photoelectric sensor and other systems, and adopts high-precision step control technology to ensure that the load of test force does not overshoot. By manually fitting the indentation edge, the Brinell hardness is automatically calculated and displayed on the LCD screen. The reading is accurate and the operation is convenient



Hardness Testing Machines

Product Feature

- High precision step-controlled electric loading technology, fast loading speed of main test force and high efficiency.
- New mechanical structure design, strong frame structure.
- Real-time video measurement, better effect, more accurate and more stable.
- The data of operation process and test results can be displayed on the screen.
- High-precision sensors cooperate with control system, the loading speed and unloading speed are faster and more accurate.
- With the unique embedded vision technology, the measurement operation is simple, and the human error is greatly reduced. The measurement can be learned in five minutes. The results of different people's measurement are basically the same.
- The remote control can be realized and the operation is simple.
- The light source can be measured by adjusting the screen.
- Measuring indentation is more stable.
- Can preset the test force guarantee time.
- Extremely fast loading speed: loading time of test force is 3.5-8 seconds.
- The test force has high precision and two thousandths of the fluctuation of the holding pressure of the force value.
- Intelligent control of whole process: piecewise force application, smooth speed change, high precision and high speed step control, etc.
- The experimental data can be output by printer

Vision System Characteristics

- Objectivity: The visual system has objectivity, and the results of analysis are not affected by subjectivity.
- High gray resolution: human eyes generally have 64 gray scales, and machine vision can reach 256 gray scales.
- Embedded image technology replaces traditional measuring eyepiece, using camera + display mode, indentation image, direct display screen.
- Type of Visual Chip: Industrial-grade Special High Definition Camera.
- Contrast, brightness, white balance and other adjustments are available.
- Vision analysis model simplifies manual operation process, reduces operator fatigue, and makes measurement data more intuitive and convenient.
- Optimizing each link greatly improves the overall performance of the hardness tester and saves 50% of the time compared with the traditional hardness tester.



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Specification

Product Name		Vision Brinell Hardness Tester	
Model		Vision SHB-3000X	
Code#		831-155	
Loading Force	N	612.9, 980.7, 1226, 1839, 2452, 4903, 7355, 9807, 14710, 29420	
	kgf	62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000	
Dwell Time		0~60s	
Objective lens and indenter switching		Automatic	
Focusing Method		Manual	
Measuring Range		(8~650) HBW	
Hardness Indication		LCD Display	
Date Output		Built-in printer	
Brinell Ruler		HBW2.5/62.5 HBW10/100 HBW2.5/187.5 HBW5/125 HBW10/250 HBW10/500 HBW5/750 HBW10/1000 HBW10/1500 HBW10/3000	
Scale Conversion		HR, HV, HK est.	
Total Magnification		20X	
Max.height of Specimen		240mm	
Distance from intender to body		160mm	
Min Measuring Unit		1μm	
Power supply		AC90-240V,50-60Hz	
Dimension		580x250x830mm	
Gross/Net Weight		170kg/140kg	
Executive Standard		JJG150-2005, GB/T231, ASTM D-785, ISO6506	