

# HARDNESS TESTER

## SHB-3011X digital Brinell Hardness Tester

### Feature:

The SHB-3011X touch screen brinell hardness tester adopts intelligent programming and photoelectric sensor technology. Through independent selection of test conditions, it can display test method, upper and lower limit range, measure indentation length, hardness value, conversion value, test force, holding time, measurement times on 5.6 Inch Touch multi-function display screen, and input year, month, date and test results It can output measurement data by built-in printer or connect with computer through data interface. The optical system adopts high rate LED optical measurement, with high image definition, adjustable brightness. The hardware system adopts the advanced electronic sensor loading technology. Through the closed-loop control system, the CPU controls the sensor to collect the signal, and the stepper motor automatically loads and unloads the test force, and can automatically compensate the test force, so as to ensure that the force value is more accurate and the indication value is more stable. At the same time, it is equipped with emergency stop device, which meets the CE safety standard of EU. It has humanized operability, more reliable stability and safety.

### Standard:

ISO 6506, ISO 6507, ASTM E10-12, ASTM E-384,  
JIS Z2243, JIG150, GB/T 231.2

### Application:

it is suitable for measure cast iron, steel, nonferrous metals, alloys, especially for soft metals such as pure aluminum, lead, tin, etc. also can be used to measure the hardness of some non-metallic materials such as hard plastics, bakelite and so on.



### Technical Specification:

Model	SHB-3011X	
Test force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Hardness scale	HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/100, HBW10/250, HBW10/500, HBW10/1000, HBW10/1500, HBW10/3000	
Test range	8~650HBW	
Load control	Auto load/hold/unload	
Hardness reading	Auto calculate and measure result display on touch screen	
Data out	Built-in- printer, or connect PC with RS232	
Magnification	20× lens	
Reading resolution	5μm	
Dwell time	0~60s	
Max. Height of Specimen	220mm	
Throat	135mm	
Power supply	AC220V, 50Hz	
Dimension Machine size	520×210×755mm, packing size: 650×435×1025mm	
Weight Net Weight:	120kg, Gross Weight: 160kg	

### Standard accessories:

No.	Name	Qty
1	instrument main body	1
2	Φ2.5mm, Φ5mm, Φ10mm Ball Indenter	3
3	20X digital microscope	1
4	hardness block 150~250 HBW 10/3000	1
5	hardness block 150~250 HBW 5/750	1
6	manual 1	1

No.	Name	Qty
7	60mm small plane test table	1
8	200 large plane test table	1
9	80 v-shaped test table	1
10	fuse 2A	2
11	anti-dust cover	1
12	power cable	1