

# HARDNESS TESTER

## SHB-3011D Electronic Brinell Hardness Tester

### Feature:

The SHB-3011D electronic Brinell hardness tester adopts advanced electronic sensor loading technology. Through the closed-loop control system, the CPU controls the sensor to collect signals. The stepping motor automatically loads and unloads the test force, and can automatically compensate the test force to ensure the force value accurately, the indication is more stable. After the indentation is measured through the eyepiece, the length of the indentation is directly input to obtain the hardness value, which improves the working efficiency. At the same time, it is equipped with an emergency stop device, which complies with the EU CE safety standard, has more reliable operation and safety, and has high cost performance. It is widely used in factory workshops, universities, research institutes, laboratories, etc.

### 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-3011D	
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	Microscope measure size and calculate by LED monitor.	
Data out	Printer: test time, average, max, min, max error.	
Microscope	20× reading microscope	
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	20× reading 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