

**Automatic Lifting Digital Brinell Hardness Tester iBrin-416A**

iBrin-416A equips with three indenters and 2 objective which adopts casting shell with strong rigidity and precise structure design, the load of test force is controlled by the sensor, which makes the whole structure compact and loading of test force stable and exact.

The test process is controlled by CPU, and apply motorized turret. The location of switching adopts mechanical and electronic double matching, makes the location more precision.

With built-in panel computer, it makes the parameter setting and results display directly, also avoids the stimulation and visual fatigue of the light source of the eyepiece, and reduces the measuring error.

After selected the scale, the instrument will automatically select the corresponding indenter and objective, it shows the clear image of the indentation and automatically measures, which realizes the fully automation of the Brinell test.

**Main Features:**

1. With 10 level test forces, 13 Brinell hardness scales, suitable for different kinds of metal materials;
2. With three indenters and two objectives, no need to change the indenters when testing different samples; with rigorous optical structure and high magnification, it makes the indentation observed clearly;
5. It adopts the integrated design of hardness tester and panel computer; With Windows 7 operating system, it has all functions of computer;
6. With CCD image measuring system, touch screen operating and displaying, it can preset the test force dwell time, adjust intensity of light source, show the indentation length, hardness value, test range and test number etc.;
7. The software has the function of calibration, manual fine tuning and set up and down limit etc., which ensures the accuracy of measurement;
8. Conversion scales of different kinds of hardness;

9. Test result can be saved as WORD or EXCEL report and can be printed out;

10. With USB port, VGA interface and network interface, it can connect to the internet and other devices for more optional functions.

#### Application range:

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.

#### Technical Specification:

Model	iBrin-416A		
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	
Test Range	3.18~653HBW		
Loading Method	Automatic (Loading/Dwell/Unloading)		
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen		
Computer	CPU: Intel I3, Memory: 2G, SSD: 32G		
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N,		
Data Output	USB Port, VGA Interface, Network Interface		
Turret	Automatic Turret		
Objective	1x, 2x		
Total Magnification	20x, 40x		
Resolution	1.25μm, 0.625μm		
Dwell Time	0~95s		
Max. Height of Specimen	260mm		
Throat	150mm		
Power Supply	AC220V/50Hz/1Ph, AC110V/60Hz/1Ph		
Execute Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2		
Dimension	600×330×890mm, Packing Dimension: 820×460×1170mm		
Weight	Net Weight: 150kg, Gross Weight: 180kg		

#### Packing List:

Name	Qty	Name	Qty
Instrument Main Body	1 set	1x, 2x Objective	each 1 pc
Φ2.5mm, Φ5mm, Φ10mm Ball Indenter	each 1 pc	Small Plane Test Table	1 pc
Large Plane Test Table	1 pc	V-shaped Test Table	1 pc
Fuse 2A	2 pcs	Power Cable	1 pc
Hardness Block 150~250 HBW 10/3000	1 pc	Hardness Block 150~250 HBW 5/750	1 pc
Inner Hexagon Spanner	1 pc	Anti-dust Cover	1 pc
Usage Instruction Manual	1 copy		