

Low Load Automatic Turret Digital Brinell Hardness Tester iBrin-417L



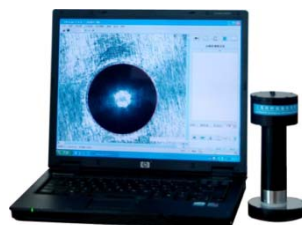
- iBrin-417L is a half automatic and intelligent Brinell hardness testing machine, it adopts the pressure sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate;
- iBrin-417L selection of testing force and dwell time is controlled and monitored on the front panel, it is automatic during the process of loading, dwell and unloading;
- iBrin-417L adopts digital Brinell microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diagonal of indentation and press the length key twice above the Microscope, then the built-in computer can compute the Brinell scale and display the final testing result on LCD display automatically;
- iBrin-417L doesn't need the operator to read the detail diameter of indentation and check the Brinell testing table, it improves the testing speed and accuracy of hardness testing obviously.

Standard Delivery:

Instrument Main Body	Ø5mm Ball Indenter	Ø200mm Flat Anvil
10x Digital Microscope	Ø2.5mm Ball Indenter	Ø 40mm V-shape Anvil
Objectives 5x	Ø1mm Ball Indenter	Level Screw
Objectives 10x	Hardness Block HBW/30/1	Power Cable
Accessories Box	Hardness Block HBW/62.5/2.5	Instrument Manual



Brinell Indenters



Brinell Measuring Software



Hardness Blocks

Technical Specifications:

Model	iBrin-417L			
Testing Force	49.03N,61.29N,98.07N,153.2N,294.2N,306.5N,612.9N			
	5Kgf, 6.25Kgf, 10Kgf, 15.625Kgf, 30Kgf,31.25Kgf,62.5Kgf			
Testing Range	(8~650) HBW			
Loading Control	Automatic (loading, dwell, unloading)			
Lens & Indenter Switch	Auto-Turret			
Magnification of Objective	Observation:5x/10x & Measurement: 5x/10x			
Magnification of Eyepiece	10x Digital Eyepiece			
Measuring Range	0.6~1.5mm			
Resolution	0.5 μ m(5x) 0.25 μ m(10x)			
Dwell Time	0~95s			
Hardness Value	Manual Measuring, Auto reading; Auto Measuring Auto Reading			
Max of Height of Specimen	170mm			
Instrument Throat	130mm			
Power Supply	AC220V/50Hz; 110V/60Hz			
Instrument Dimension	535x225x580mm			
Gross/Net Weight	75kg / 50kg			
Execution Standard	ISO 6506, ASTM E10 – 12, JIS Z2243, GB/T 231			
Accuracy of Brinell Hardness Testing				
Hardness Range	Max. Tolerance		Repetition	
HBW \leq 125	$\leq \pm 3.5\%$		$\leq 3.5\%$	
125 < HBW \leq 225	$\leq \pm 2.5\%$		$\leq 3.0\%$	
HBW > 225	$\leq \pm 2.0\%$		$\leq 2.5\%$	
Brinell Scales				
Diameter of ball Indenter	Brinell Scales			
5mm	HBW5/62.5			
2.5mm	HBW2.5/62.5	HBW2.5/31.25	HBW2.5/15.625	HBW2.5/6.25
1mm	HBW1/30	HBW1/10	HBW1/5	