



iBrin-3000WL Brinell Hardness Tester



Contact us

Mikrosize Precision Instrument Co.,Ltd

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: www.mikrosize.com

Email: mikrosize@mikrosize.com



Web: www.mikrosize.com

Email: mikrosize@mikrosize.com

Feature and Application

Product Feature

- Adopts weight loading system to ensure accurate test force.
- Digital tube display with clear visual readout and button operation.
- Low-speed motor design, low noise and stable operation.
- Screw lifting rod structure for smooth and steady vertical travel.
- Standard equipped with 3 indenter sizes: $\phi 2.5\text{mm}$, $\phi 5\text{mm}$, $\phi 10\text{mm}$.
- 7 grade test forces: 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf.
- Manual replacement of indenters.
- Dwell time adjustable within 1~99 seconds.
- Hardness value obtained by reference to conversion table after test completion.
- Measuring range of Brinell hardness: 8~650HBW.



Product Application

- Widely used for hardness inspection of ferrous metal blanks such as cast iron and cast steel; standard inspection equipment for casting industry.
- Compatible with aluminum, copper, zinc, magnesium non-ferrous die castings and profiles; preferred equipment for incoming and finished hardness inspection of automotive wheel hubs, motor housings and copper plumbing fittings.
- Applied to semi-finished products of carbon steel and alloy steel after annealing, normalizing and tempering; quickly judges material hardness to control forging, heat treatment processes and cutting machinability.
- Covers hardware manufacturing, automotive parts, general machinery and metallurgical raw material incoming quality inspection, realizing one-stop hardness testing for material sorting and finished product conformity judgment.



Product Structure



1.Display Screen

2.Control Buttons

3.Indenter

4.Test Anvil

5.Lifting Screw Rod

6.Handwheel

7.Weights

Product Detail



- Adopts weight loading based on lever principle to guarantee precise test force output.
- Different combinations of weights realize adjustable test force levels.

- Standard indenters in three sizes: $\phi 2.5\text{mm}$, $\phi 5\text{mm}$, $\phi 10\text{mm}$.
- Detachable indenter design; manual indenter replacement required when switching hardness scales to match corresponding test specifications.
- Screw-type lifting rod delivers smooth and stable vertical movement.



- Rotate the bottom handwheel to adjust the vertical position of the test anvil.
- Preloading of this hardness tester is completed via hand-wheel operation.

Screen Interface



1.Status Display

2.Setting Button

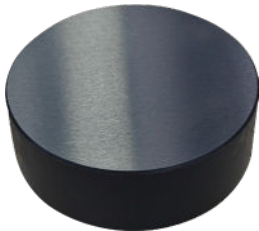
3.Numeric Adjustment Buttons

4.Start Button

Technical Specification

Name	Brinell Hardness Tester
Model	iBrin-3000WL
Test Force Levels	187.5kgf、250kgf、500kgf、750kgf、1000kgf、1500kgf、3000kgf
	1838.8N、2415.8 N、4903.5 N、7355.3 N、9807 N、14705 N、29421 N
Indenter Specifications	φ2.5mm、φ5mm、φ10mm
Test Force Dwell Time	1~99s
Maximum Working Height	230mm
Distance From Indenter Center to Machine Body Wall	120mm
Compliant Standards	GB/T 231;ISO 6506;ASTM E10
Power Supply	AC 220V,50Hz
Overall Dimensions	560*210*910mm
Net Weight	200kg

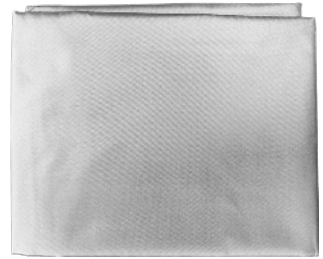
Standard Delivery

Name	Qty	Photo
Mainframe	1pc	
Indentation Diameter Measuring Microscope	1pc	
Large Test Anvil	1pc	
Small Test Anvil	1pc	
V-Type Test Anvil	1pc	
φ10mm Tungsten Carbide Ball Indenter	1pc	

Standard Delivery

Name	Qty	Photo
φ5mm Tungsten Carbide Ball Indenter	1pc	
φ2.5mm Tungsten Carbide Ball Indenter	1pc	
HBW10/3000 Standard Brinell Hardness Test Block	1pc	
HBW10/1000 Standard Brinell Hardness Test Block	1pc	
Power Cable	1pc	

Standard Delivery

Name	Qty	Photo
Dust Cover	1pc	
Screwdriver	1pc	
Manual	1pc	
Certificate of Conformity	1pc	
Warranty Card	1pc	

Optional Delivery

Optional

Tungsten Carbide Ball Indenters

Standard Brinell Hardness Test Blocks

Test Anvils

Mikrosize Precision Instrument Co.,Ltd

Add: A-4035 RuiFeng Business Expo , Wuhu City, China , 241000.

Tel: 0553-2836939 Fax:0553-2836938 Web: www.mikrosize.com

