

Mikrosize®

iBrin-62.5

Low Load Digital Brinell Hardness Tester



Video



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

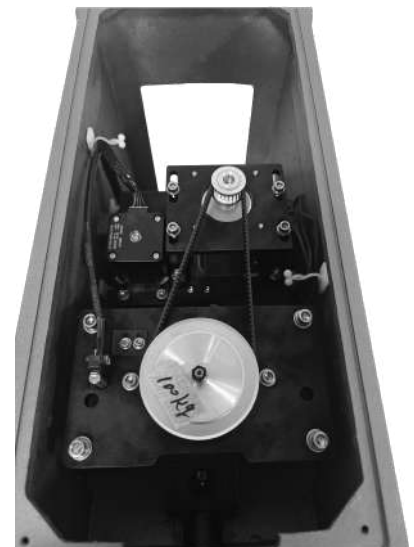
Features And Applications

Product Features

- Closed loop loading, equipped with high-precision sensors and measurement systems to ensure test result accuracy and reliability.
- Liquid crystal touch screen, simple and convenient operation and use.
- Fully automatic operation for test force application (loading/dwell/unloading).
- Equipped automatic turret simultaneously holds 2 objectives and 1 indenter, automatically switching between indenter and objectives.
- Supports display in 4 languages (including chinese and english).
- Built-in thermal printer
- Equipped with rs232 and usb interfaces for connecting to computers and printers.
- Automatic input of indentation size after measurement, automatic output of hardness value.
- Adjustable light source

Product Application

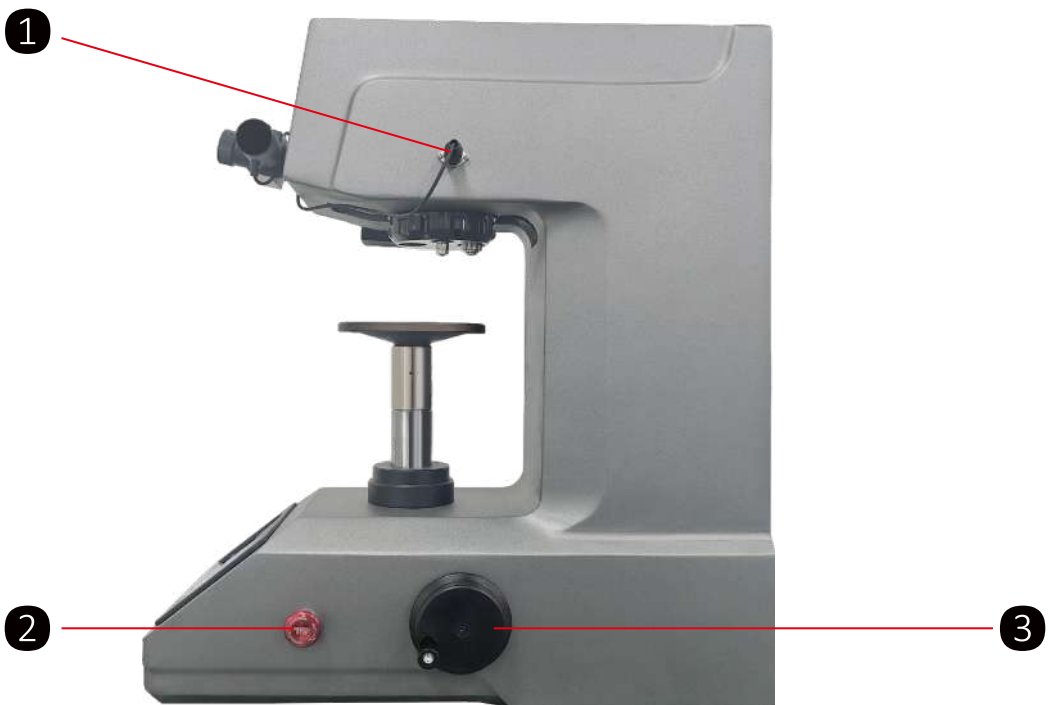
- Soft metal material testing for materials with low hardness like pure aluminum, copper, lead, tin, zinc, and their alloys, where traditional hardness testing methods may struggle to provide accurate measurements, the small-load brinell hardness tester can accurately reflect their hardness characteristics.
- For small-sized or complex-shaped parts, the small-load brinell hardness tester allows convenient hardness testing without damaging or cutting the part



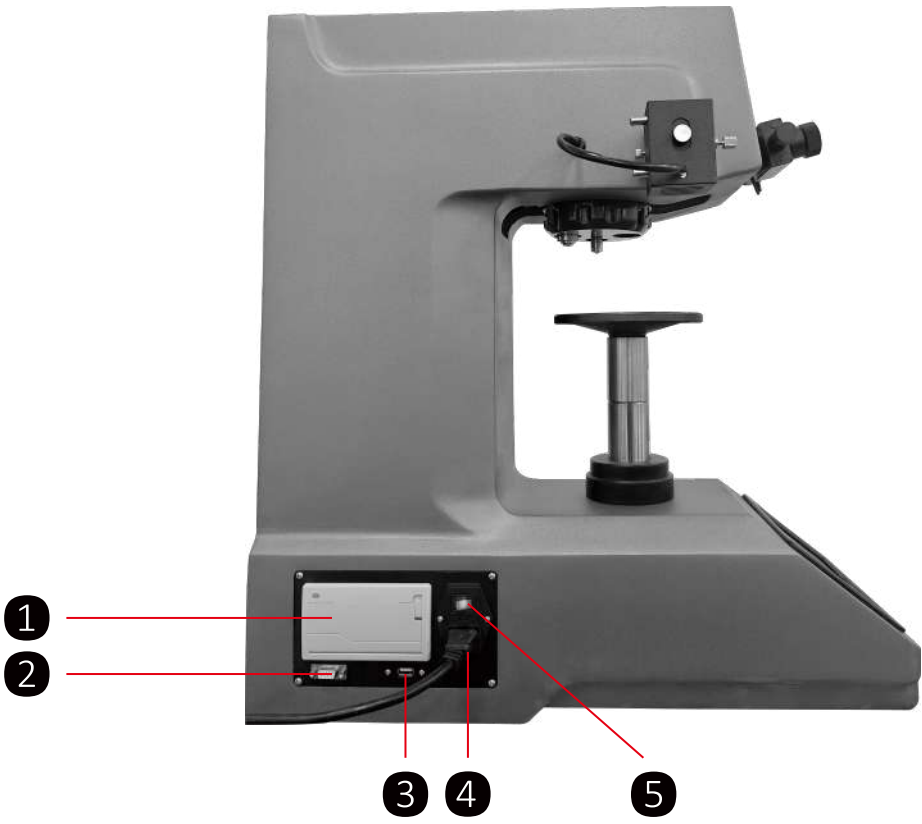
Instrument Appearance



- | | | | |
|-----------------|------------------------|---------------------|-------------|
| 1. Light Source | 2. Micrometer Eyepiece | 3. Automatic Turret | 4. Indenter |
| 5. Test Anvil | 6. Lifting Screw | 7. Display Screen | |

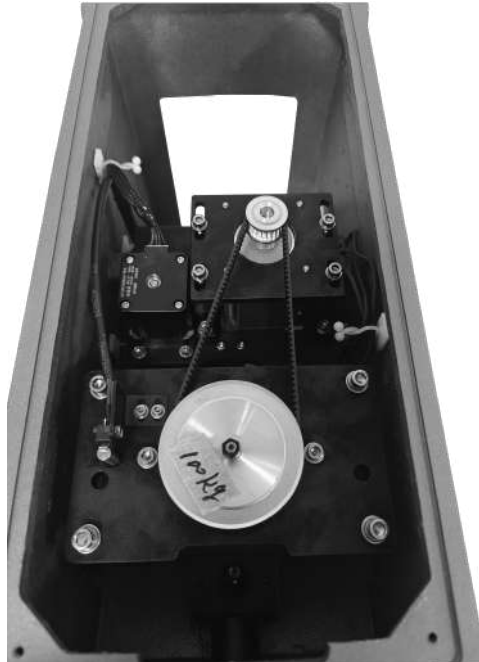


- | | | |
|----------------------------------|--------------------------|--------------|
| 1. Micrometer Eyepiece Interface | 2. Emergency Stop Button | 3. Handwheel |
|----------------------------------|--------------------------|--------------|



- | | | | |
|-----------------|--------------------|------------------|----------------------|
| 1. Printer | 2. RS232 Interface | 3. USB Interface | 4. Power Cord Socket |
| 5. Power Switch | | | |

Product Details

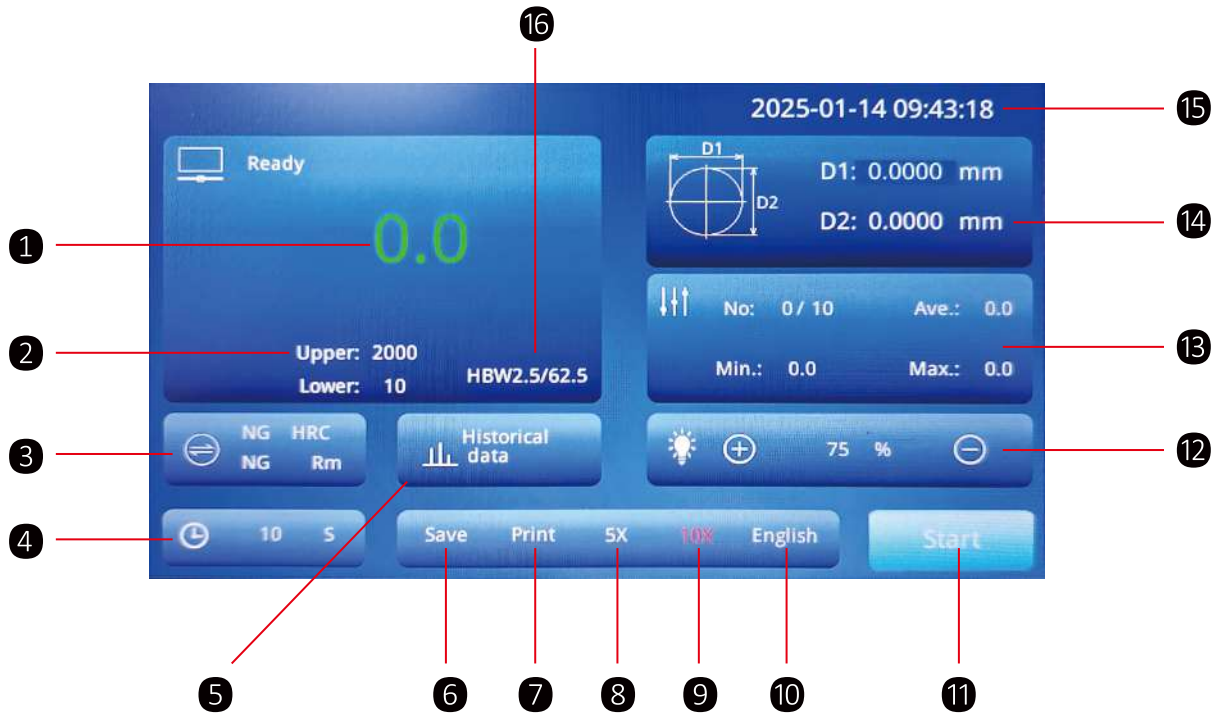


This device uses electronic weight loading, combined with high-precision sensors and measurement systems, ensuring accurate test results.



The automatic turret simultaneously holds 2 objectives (5x, 10x) and 1 indenter. Automatic switching between the indenter and objectives significantly enhances the user experience.

Product Functions



- | | | | |
|-------------------------|-------------------------------------|----------------------------|----------------------------------|
| 1. Test Results | 2. Upper/Lower Limit Setting | 3. Scale Conversion | 4. Dwell Time |
| 5. History Data | 6. Save | 7. Print | 8. 5x Objective |
| 9. 10x Objective | 10. Language Switch | 11. Start Key | 12. Brightness Adjustment |
| 13. Test Data | 14. Indentation Size | 15. Time/Date | 16. Test Scale |

Operation Interface



Scale Selection

The device supports 16 test scales, covering a wide range to meet most user requirements (some scales require optional indenters).

Hbw1/1、 hbw1/1.25、 hbw1/2.5、 hbw1/5、 hbw1/10、 hbw1/15、 hbw1/30、 hbw2/20
Hbw2.5/6.25、 hbw2.5/7.8125、 hbw2.5/15.625、 hbw2.5/31.25、 hbw2.5/62.5
Hbw5/25、 hbw5/31.25、 hbw5/62.5



Scale Conversion

Can convert to 19 commonly used hardness scales, including rockwell hardness, vickers hardness, knoop hardness, superficial rockwell, etc.

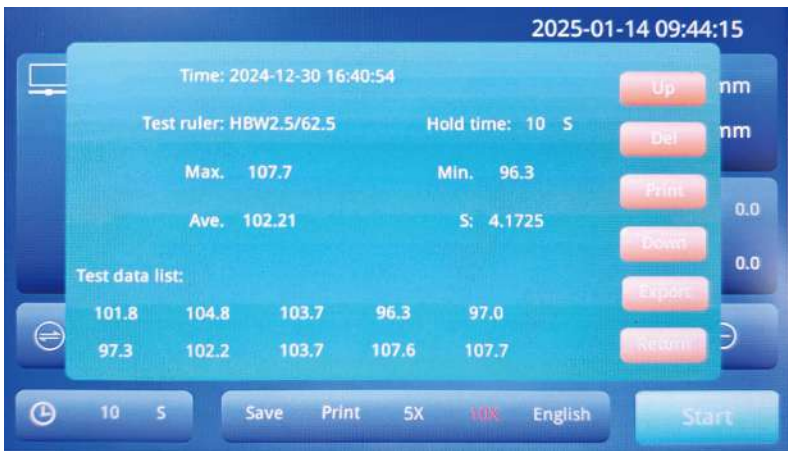
Hra、 hrb、 hrc、 hrd、 hre、 hrf、 hrg、 hrh、 hrk、 hs、 hv、 hk、 hbw、 hr15n、 hr30n、
Hr45n、 hr15t、 hr30t、 hr45t

Operation Interface



Test Data

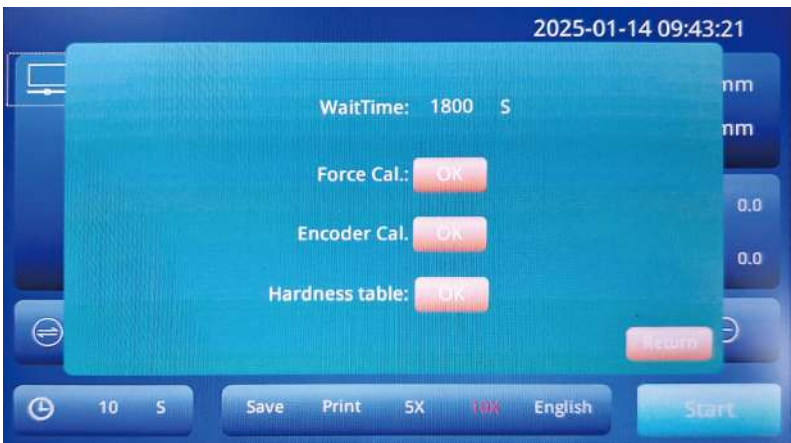
Supports recording up to 10 sets of data per test. Users can set the number of test groups arbitrarily between 1 and 10. Tap the screen to bring up the numeric keypad and enter the desired number. Dwell time modification works the same way(require optional indenters).



Data Management

- after completing a test, click "save" to view the data in history data
- users can also delete data or print it
- data can be printed directly using the built-in printer or after connecting to a computer.

Operation Interface



Calibration

Force calibration and encoder calibration were performed before leaving the factory. Users are advised not to make changes themselves, as this may cause inaccuracies in device testing.



Language

This device supports 4 display languages, and supports customization of other languages.

Technical Specification

Name	Low Load Digital Brinell Hardness Tester
Model	iBrin-62.5
Measuring Range	8~650HBW
Test Force	1kgf、1.25kgf、2.5kgf、5kgf、6.25kgf、7.8125kgf、10kgf、15kgf、15.625kgf、20kgf、25kgf、30kgf、31.25kgf、62.5kgf
Test Scales	HBW1/1、HBW1/1.25、HBW1/2.5、HBW1/5、HBW1/10、HBW1/15、HBW1/30、HBW2/20 HBW2.5/6.25、HBW2.5/7.8125、HBW2.5/15.625、HBW2.5/31.25、HBW2.5/62.5、HBW5/25、HBW5/31.25、HBW5/62.5
Scale Conversion	HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HS、HV、HK、HBW、HR15N、HR30N、HR45N、HR15T、HR30T、HR45T
Test Force App. & Ctrl.	Fully Automatic (Loading/Dwell/Unloading)
Indenter & Obj. Switch	Automatic
Indenter Size	Φ1mm, Φ2.5mm (Φ2mm, Φ5mm optional)
Micrometer Eyepiece	10X
Objectives	5X、10X
Total Magnification	50X、100X
Test Height	175mm
Test Throat	125mm
Reading Method	Automatic input of indentation length; Hardness value displayed on LCD screen.
Power Supply	AC220V, 50Hz
Machine Dimensions (LxWxH)	320mm*580mm*620mm
Net Weight	65KG

Standard Delivery

Name	Qty	Photo
Machine Mainframe	1	
10X Digital Micrometer Eyepiece	1	
Φ150mm Test Anvil	1	
Φ58mm Test Anvil	1	
Φ58mm V-Anvil	1	
Φ1mm Brinell Indenter	1	
Φ2.5mm Brinell Indenter	1	
Φ1mm, Φ2.5mm Tungsten Carbide Balls	each1	
Test Block 90~110HBW2.5/62.5	1	
Test Block 85~105HBW1/10	1	
Spirit Level	1	
Fuse	2	
Leveling Screws	4	
Hex Key	1	
Dust Cover	1	
Screwdriver	1	
Power Cord	1	
User Manual	1	
Certificate of Conformity	1	



Optional Delivery

Optional Accessories

Tungsten Carbide Balls

Various Work Stages

Various Test Blocks

Optional Internal Components

Various Indenters