

iRock-150WL

Digital Rockwell 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



Feature and Application

Product Feature

- Weighted force loading design ensures accurate test force.
- Automatic test force loading, dwell & unloading.
- Large digital display with key control.
- The lifting column adopts a lead screw structure, delivering stable and smooth vertical travel.
- Built-in printer.
- Supports multiple Rockwell hardness scales with inter-scale conversion function.
- Manual indenter replacement for easy disassembly.
- Standard equipped with two indenters: Diamond Rockwell indenter & $\phi 1.5875$ mm ball indenter.
- Hardness value resolution: 0.1 HR.
- Adjustable dwell time ranging from 0 ~ 60 s.
- Max specimen height: 210 mm; extended-height model available as option.
- Distance from indenter center to machine frame wall: 165 mm.
- Compliance Standards: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2.



Product Application

- Incoming inspection of metal materials.
- Used for hardness testing of raw materials including steel, cast iron, non-ferrous metals and alloys, to rapidly verify material compliance with production & procurement specifications.
- Quality control of heat-treated workpieces.
- Applicable to quenched, tempered, annealed, normalized and other heat-treated components; enables in-line hardness monitoring to guarantee workpieces meet strength and wear resistance requirements.
- Finished product delivery and sampling inspection.
- Conduct batch sampling and factory release testing on finished parts such as shafts, molds, gears, metal sheets and hardware components to guarantee consistent, qualified product performance.



Product Structure



1.Screen

2.Control Key

3.Indenter

4.Specimen Anvil

5.Lifting Column

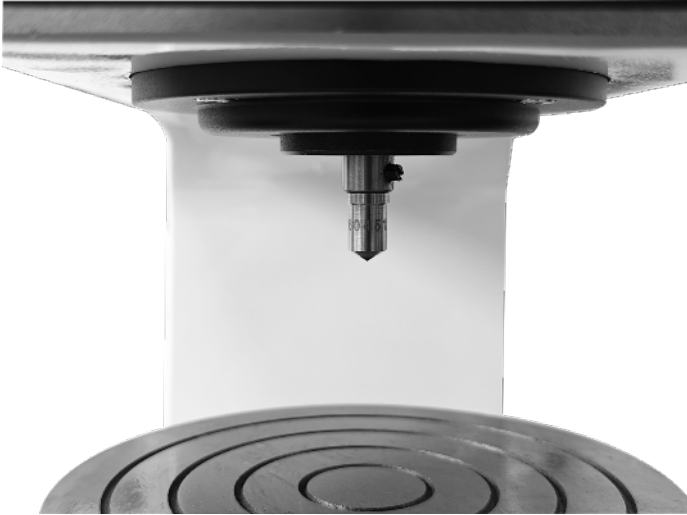
6.Load Change Handwheel

7.Handwheel

8.Printer

9.Emergency Stop Button

Product Detail



- Manually interchangeable indenters for fast replacement



- Adjust test force via Load Change Handwheel.
- Different test forces are applied by combining various weights.

Product Detail

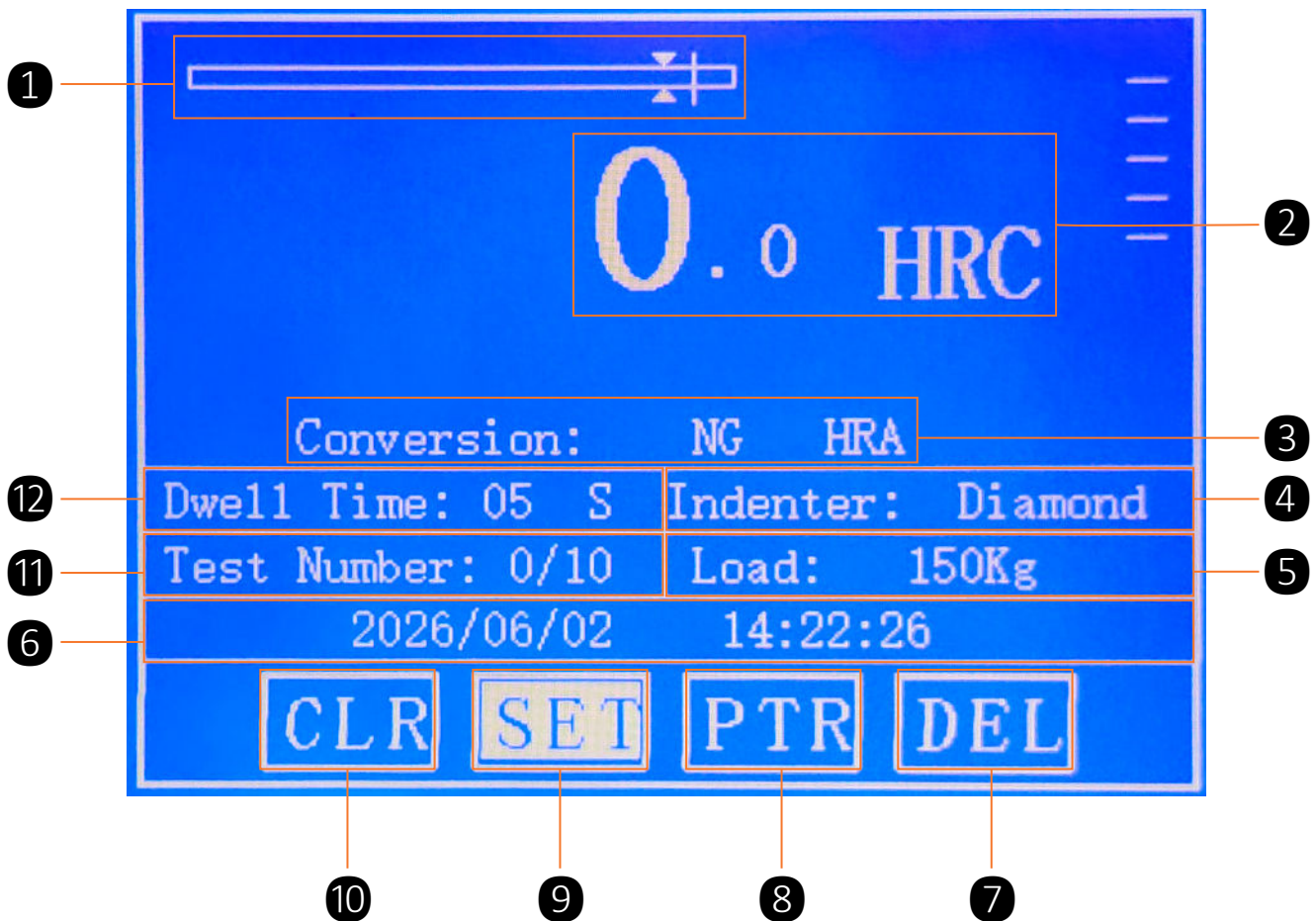


- The lifting column adopts a lead screw design for stable and smooth lifting movement.



- Integrated printer for direct test data output.

Display Interface



1. Force Loading Progress Bar

2. Hardness Value

3. Converted Hardness Value

4. Indenter Type

5. Test Force

6. Time & Date

7. Delete

8. Print

9. Setting

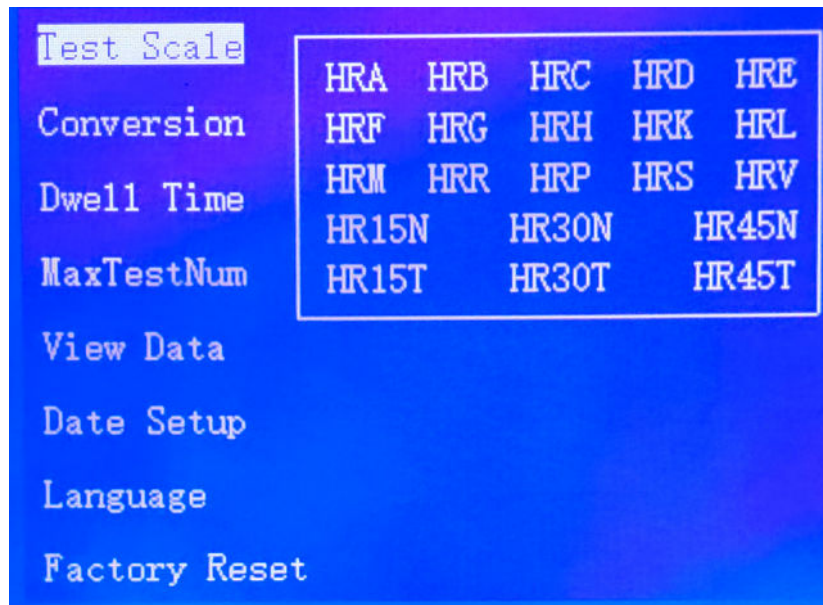
10. Reset

11. Test Counter

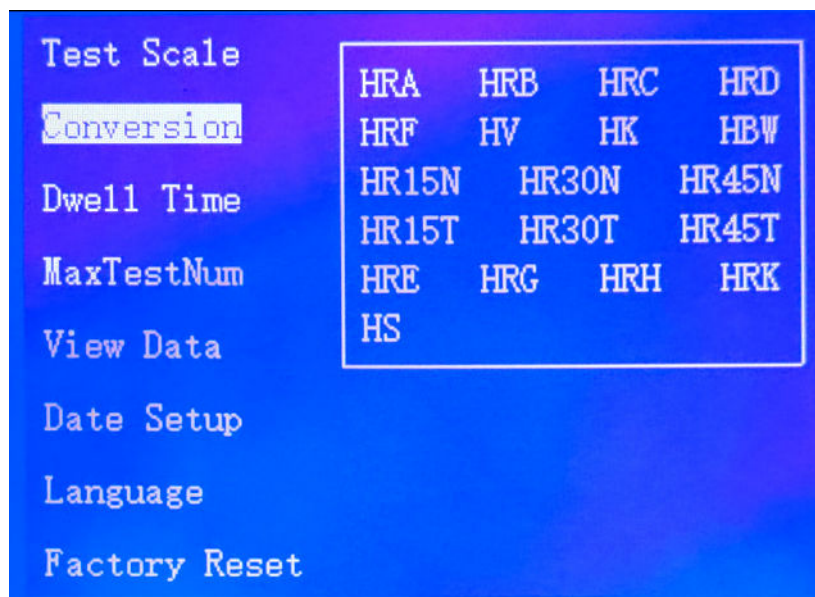
12. Dwell Time

Display Interface

Measurement Scales



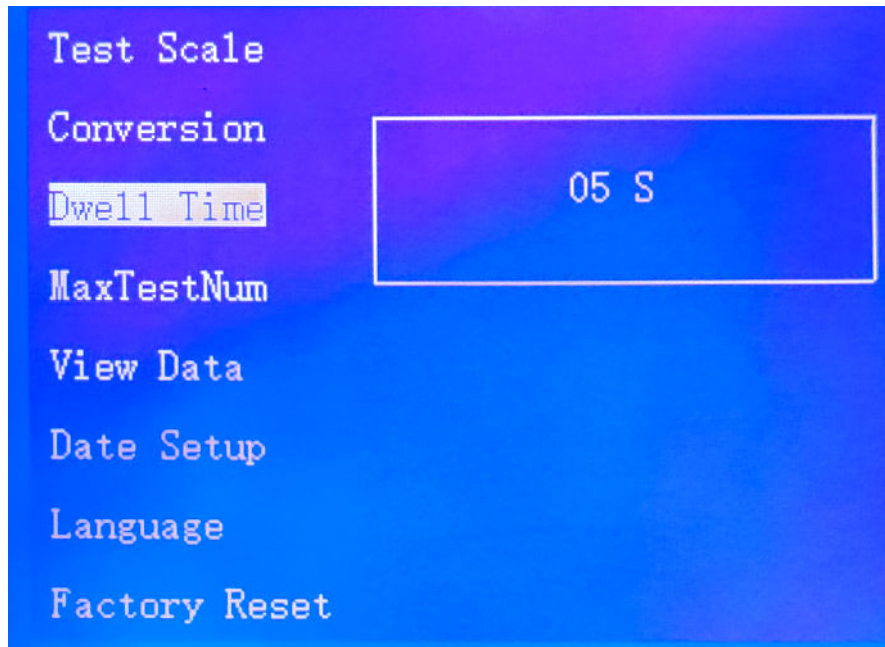
- Supports 21 Rockwell scales:HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRV, HRM, HRR, HRP, HRS, HR30N, HR45N, HR15N, HR15T, HR30T, HR45T
- Matching indenters are required for plastic and superficial Rockwell scales (optional accessories).



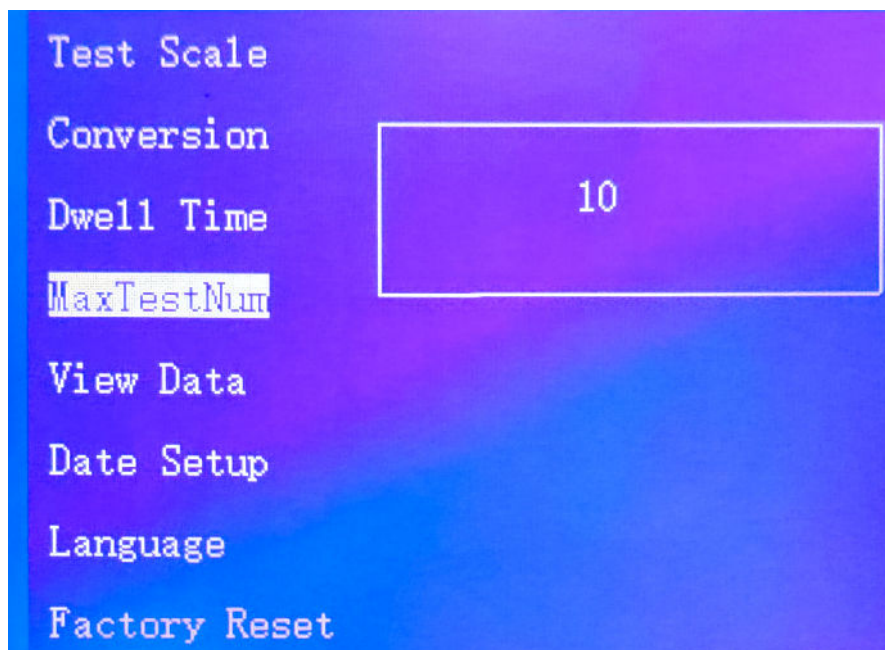
- Supports 19 conversion scales:HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR45N, HR30N, HR15T, HR30T, HR45T, HRE, HRG, HRH, HRK, HS

Display Interface

Measurement Scales



- Adjustable dwell time range: 1 ~ 60 s.
- Initial default time: 5s.



- Maximum 10 readings per test batch.

Display Interface

Measurement Scales

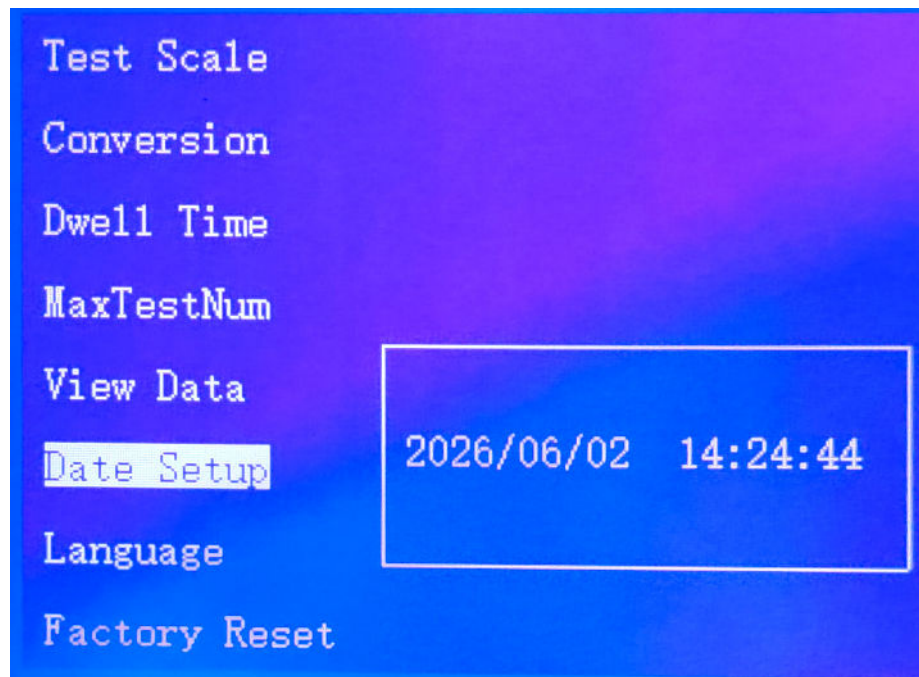
Test Scale	
Conversion	2026-05-26 16:10 HRC
Dwell Time	2026-05-26 16:18 HRC
MaxTestNum	2026-05-26 16:26 HRC
View Data	2026-05-26 16:32 HRC
	2026-05-26 16:39 HRA
	2026-06-02 14:34 HRC
	2026-06-02 14:49 HRC
	2026-06-02 15:14 HRC
Date Setup	
Language	
Factory Reset	

Test Scale	ESC	Print	USB
Conversion	TestDate: 05/26 16:10		
Dwell Time	TestMark: HRC		
MaxTestNum	DwellTime: 05 S		
View Data	DataSheet:		
	1).84.5	2).95.9	
	3).97.4	4).93.3	
	5).96.7	6).98.1	
Date Setup	7).98.3	8).97.6	
	9).98.3	10).42.2	
Language	Max: 98.3	Min: 42.2	
Factory Reset	Ave: 90.2		

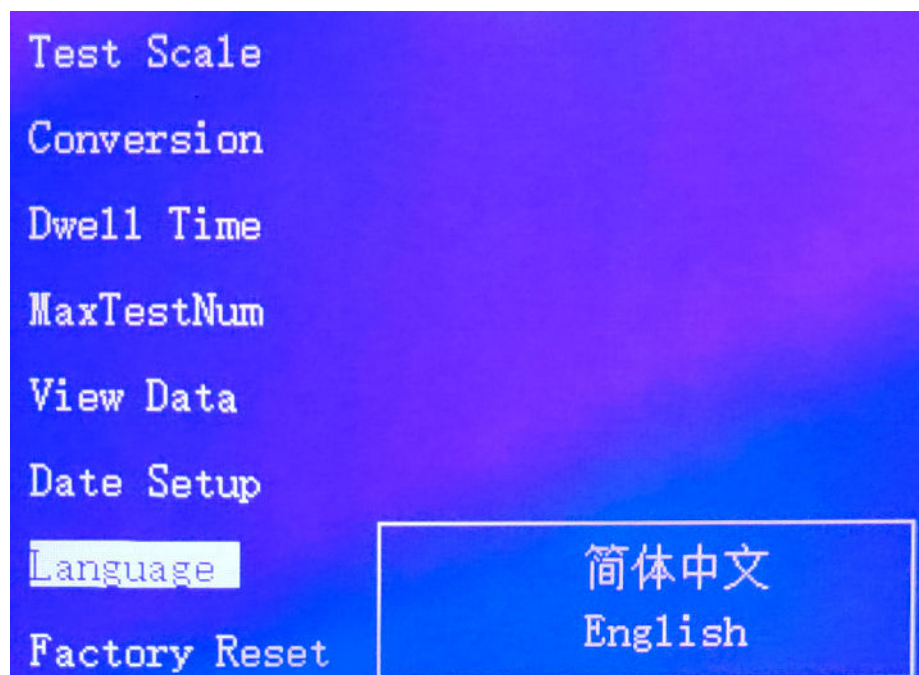
- Historical records retrievable by date.
- Recorded information includes test scale, dwell time, maximum, minimum and average hardness values.
- Test data can be printed directly or exported via USB interface.

Display Interface

Measurement Scales



- Support setting of Time & Date.



- Dual language options: Chinese & English.

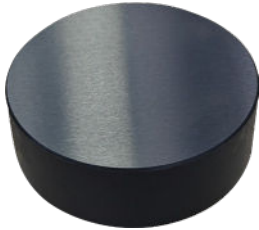
Technical Specification

Name	Digital Rockwell Hardness Tester
Model	iRock-150WL
Initial Test Force	10kgf (98.07N)
Total Test Force	60kgf; 100kgf; 150kgf;(588.4N; 980.7N; 1471N)
Indenter Specifications	Diamond Rockwell Indenter, Φ 1.588 mm Ball Indenter
Test Force Application Mode	Automatic (Loading / Dwell / Unloading)
Measurement Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRV, HRM, HRR, HRP, HRS, HR30N, HR45N, HR15N, HR15T, HR30T, HR45T
Conversion scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR45N, HR30N, HR15T, HR30T, HR45T, HRE, HRG, HRH, HRK, HS
Data Output	Built-in Printer

Technical Specification

Resolution	0.1HR
Dwell time	1~60s
Max. Sample Height	210mm
Distance From Indenter Center To Frame Wall	165mm
Power Supply	AC220V, 50Hz
Compliance Standards	ISO6508; ASTM E-18; JIS Z2245; GB/T 230
Overall Dimension	520*240*720mm
Net Weight	80kg

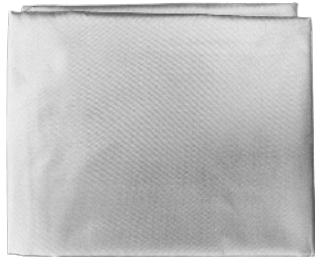
Standard Delivery

Name	Qty	Photo
Mainframe	1pc	
Diamond Rockwell Indenter	1pc	
φ1.5875 mm Ball Indenter	1pc	
φ150 mm Test Table	1pc	
φ58mm Test Table	1pc	
φ58 mm V-Type Test Table	1pc	

Standard Delivery

Name	Qty	Photo
HRA standard Rockwell Hardness Test Block	1pc	
HRB standard Rockwell Hardness Test Block	1pc	
High value HRC Standard Rockwell Hardness Test Block	1pc	
Medium value HRC Standard Rockwell Hardness Test Block	1pc	
Low value HRC Standard Rockwell Hardness Test Block	1pc	
Weight A, B, C	each 1pc	

Standard Delivery

Name	Qty	Photo
Dust Cover	1pc	
Power Cable	1pc	
Operation Manual	1copy	
Certificate of Conformity	1copy	
Warranty Card	1copy	

Optional Delivery

Optional

Diamond Rockwell Indenter

φ1.5875 mm Ball Indenter

φ3.175 mm ball indenter

Standard Rockwell hardness test block

Standard superficial Rockwell hardness test block

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

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

