



iRocky-150WL

Touch Screen Digital Rockwell Hardness Tester



Contact us

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Feature and Application

Product Feature

- Adopts weight block loading test force, matched with lever structure to deliver accurate force value.
- 5.6-inch resistive touch screen, resolution 640480
- Automatic loading, dwell and unloading of test force
- Supports hardness value conversion with 3 conversion standards: ASTM_E140-12be, ISO_18265-2013, GB/T 1172
- Hardness value resolution: 0.1HR
- Instrument calibration range within $\pm 10.0\text{HR}$
- Built-in thermal printer
- Screw rod design for lifting spindle with self-locking function to prevent worktable sliding down
- Replaceable indenters, equipped with 2 indenters: Rockwell diamond indenter; $\phi 1.588\text{mm}$ ball indenter
- Supports 12 languages including Chinese, English, Japanese, Korean, etc
- Preliminary test force: 10kgf (98.07N); Total test force: 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
- Dwell time adjustable from 0~60s
- Compliant with standards: GB/T230.2, JIS Z2245, EN-ISO6508, ASTM E-18

Product Application

- Incoming inspection of metal materials
- Used for hardness testing of raw materials such as steel, cast iron, non-ferrous metals and alloys to quickly determine whether the material meets production and procurement standards.
- Quality control of heat-treated workpieces
- Suitable for heat-treated parts such as quenched, tempered, annealed and normalized workpieces; online hardness monitoring to ensure the workpiece strength and wear resistance meet the standards.
- Finished product delivery and sampling inspection
- Conduct batch sampling inspection and delivery testing on finished products such as shafts, molds, gears, plates and hardware parts to ensure qualified and stable product performance.



Product Structure



- | | | | |
|---------------------------|-----------------------------|----------------------|-------------------------------------|
| 1. Display Screen | 2. Indenter | 3. Test Table | 4. Load Adjustment Handwheel |
| 5. Lifting Spindle | 6. Lifting Handwheel | 7. Printer | 8. Emergency Stop Button |

Product Detail



- Adjust test force via load adjustment handwheel, 3 grades available: 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N).
- Test force is generated by weight block loading; different weight combinations realize various test forces.



- Screw rod design for lifting spindle enables smooth & stable lifting with self-locking capability to prevent test table descent.

Product Detail



- Equipped with 2 indenters: Rockwell diamond indenter and $\phi 1.588\text{mm}$ ball indente.
- Manual replaceable indenter design for convenient & quick replacement.



- Built-in thermal printer for instant test report output.
- Standard equipped emergency stop button.

Screen Interface



1.Dwell Time

2.Measuring Scale

3.Upper & Lower Tolerance Limit

4.Hardness Value

5.Conversion Scale

6.Menu

7.Delete

8.Print

9.Single Point Mode / Average Mode

10.Reset

11.Date & Time

12.Menu

13.Reset

14.Exit

15.Measuring Scale Switch

16.Single Point / Average Mode

17.Print

18.Left Direction Key

19.Enter

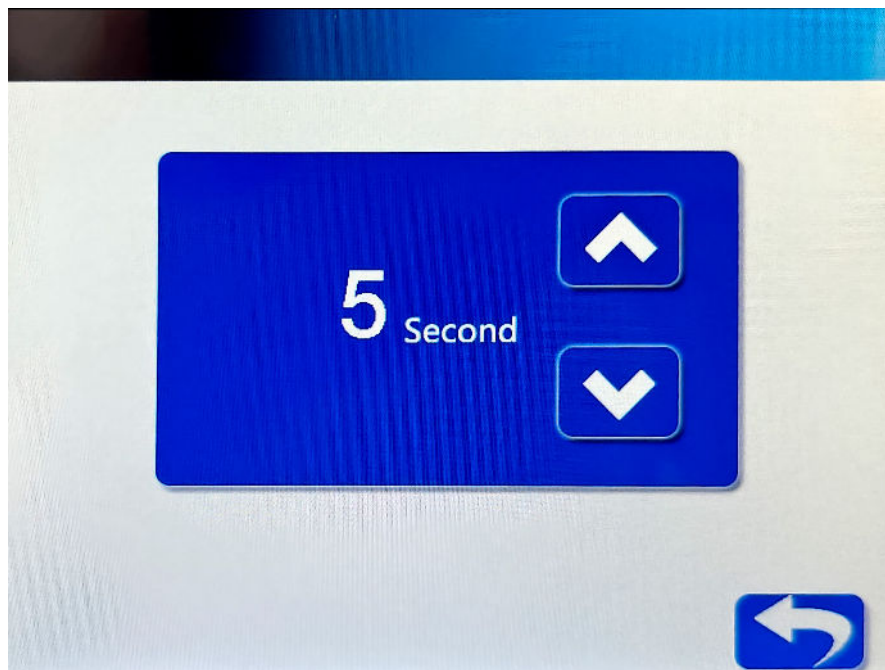
20.Right Direction Key

Screen Interface

Measuring Scale

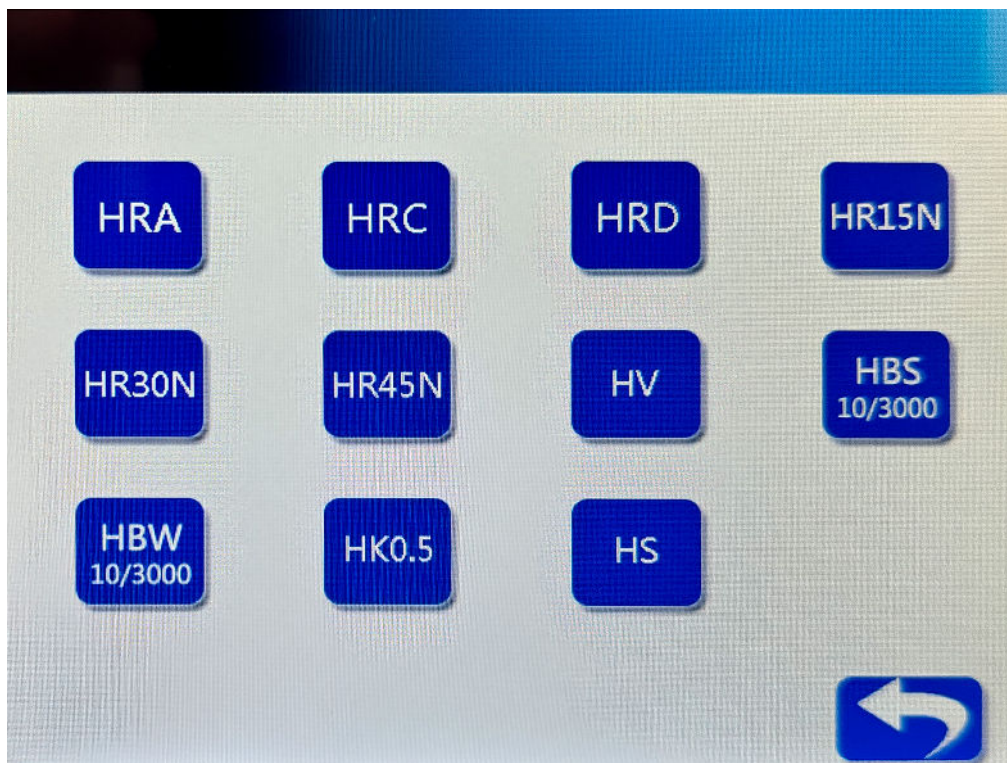


- Supports 15 Rockwell scales: HRA, HRFW, HRMW, HRBW, HRGW, HRPW, HRC, HRHW, HRRW, HRD, HRKW, HRSW, HREW, HRLW, HRVW.



- Dwell time adjustable from 0~60s.

Screen Interface



- 3 conversion standards available: ASTM E140, ISO 18265, GB/T 1172.
- Multiple material options under each standard; supported conversion standards vary by material.

Software Interface

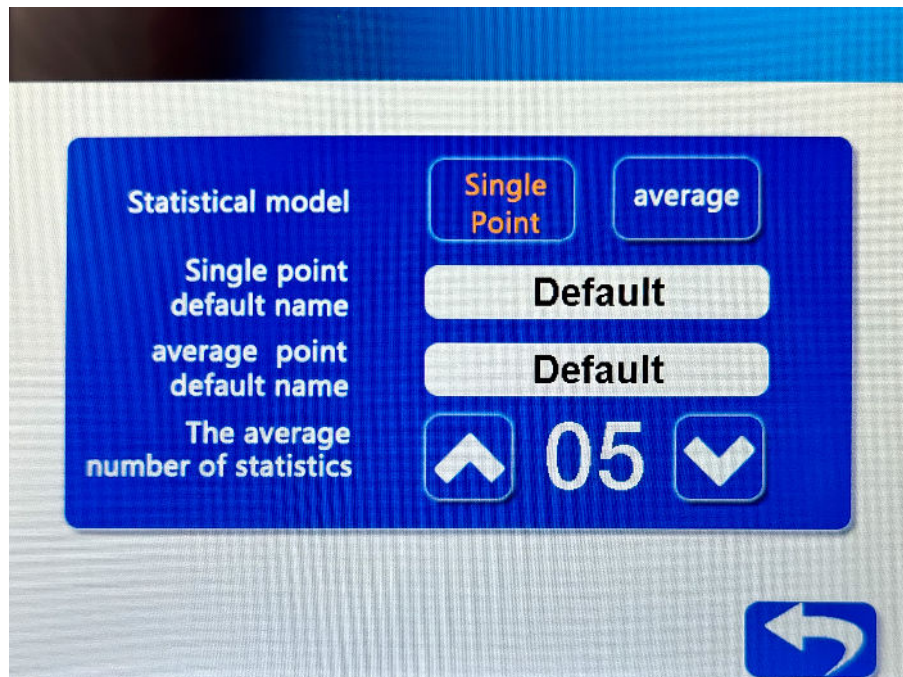


● Calibration range: -10.0HR ~ +10.0HR, step value 0.1HR.

Software Interface

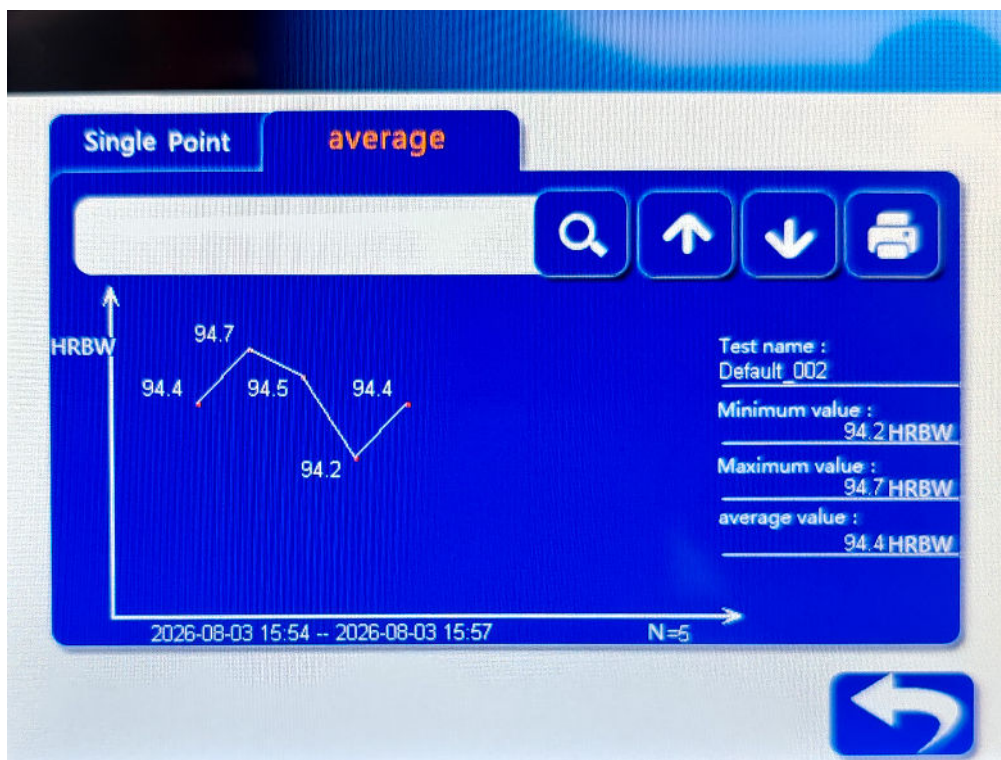
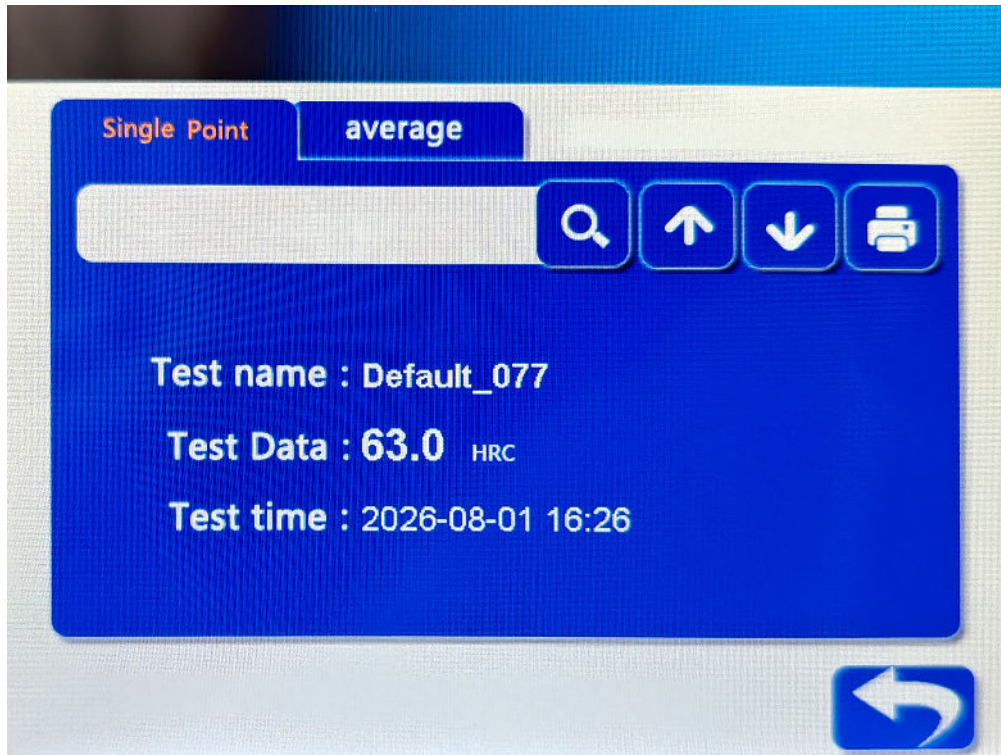


- Upper & lower hardness limits configurable, pass/fail inspection supported; alarm prompt for out-of-range test results.



- Two statistics modes: Single Point & Multi-point Average.
- Average mode supports up to 10 measurements per group.

Software Interface

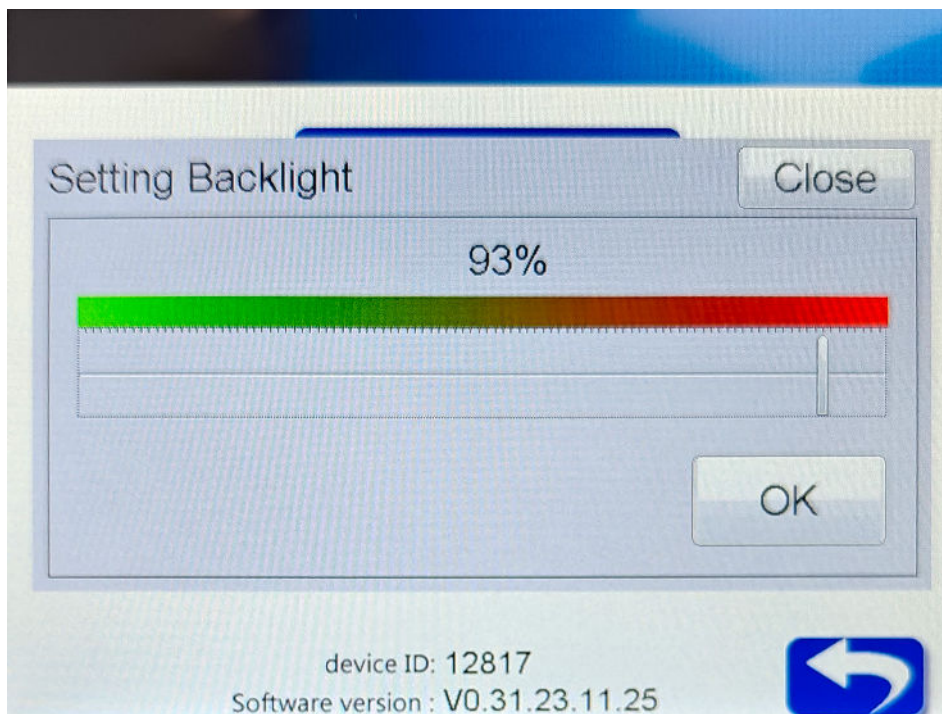


- Historical data classified by Single Point Mode and Average Mode.
- Data printable output.

Software Interface



- Supports 12 languages: Simplified Chinese, Traditional Chinese, English, French, German, Russian, Portuguese, Spanish, Korean, Japanese, Italian, Thai.



- Adjustable backlight brightness.

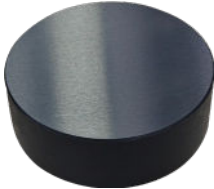
Technical Specification

Name	Touch Screen Digital Rockwell Hardness Tester
Model	iRocky-150WL
Rockwell Scales	HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HRL、HRM、HRP、HRR、HRS、HRV
Preliminary Test Force	98.07N (10kgf)
Total Test Force	588.4N (60kgf) 、 980.7N (100kgf) 、 1471N (150kgf)
Dwell Time	0-60S Adjustable
Display Screen	5.6-inch Resistive Touch Screen, Resolution 640×480
Hardness Value Resolution	0.1HR
Test Force Loading Mode	Automatic Loading, Dwell & Unloading

Technical Specification

Hardness Conversion Items	HRA、HRB、HRC、HRE、HRF、HRG、HRK、HRH、HR15T、HR30T、HR45T、HR15N、HR30N、HR45N、HV0.1、HV1、HV5、HV10、HV15、HV30、HV50、HBS2、HBS10、HBS30、HBW、HK0.5、HK1、HLD、HS、Mpa
Conversion Standards	ASTM_E140-12be、ISO_18265-2013、GB/T 1172
Supported Languages	Simplified Chinese, Traditional Chinese, English, French, German, Russian, Portuguese, Spanish, Korean, Japanese, Italian, Thai
Instrument Calibration Range	-10.0HR~+10.0HR;Step value 01.HR
Data Processing	Stores 200 single test data & 100 grouped data; supports single data view & data analysis
Printing Configuration	Built-in Printer
Max Specimen Height	100mm with lead screw protective sleeve; 170mm without lead screw protective sleeve
Distance from Indentation Center to Machine Body Wall	118mm
Overall Dimension	500×225×660 (mm)
Net Weight	68kg

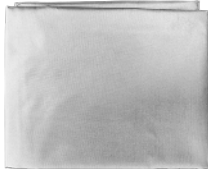
Standard Delivery

Name	Qty	Photo
Mainframe	1Set	
Φ150mm Test Table	1pc	
Φ55mm Test Table	1pc	
Φ55mm V-Type Test Table	1pc	
Rockwell Diamond Indenter	1pc	
Φ1.588mm Ball Indenter	1pc	
Power Cord	1pc	

Standard Delivery

Name	Qty	Photo
Fuse	2pcs	
Standard Rockwell Hardness Block 80-88HRA	1pc	
Standard Rockwell Hardness Block 85-100HRB	1pc	
Standard Rockwell Hardness Block 60-70HRC	1pc	
Standard Rockwell Hardness Block 35-55HRC	1pc	
Standard Rockwell Hardness Block 20-30HRC	1pc	
Spare $\varnothing 1.588$ mm Steel Ball	5pcs	

Standard Delivery

Name	Qty	Photo
Large Screwdriver	1pc	
Small Screwdriver	1pc	
Dust Cover	1pc	
Level Bubble	1pc	
Accessory Case	1pc	
Instruction Manual	1 copy	
Product Certificate	1 copy	
Warranty Card	1 copy	

Optional Delivery

Optional

Diamond Rockwell Indenter

φ1.5875mm Ball Indenter

φ3.175mm Ball Indenter

Standard Rockwell Hardness Block

Standard Surface Rockwell Hardness Block

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