

iRocky-150DP

Touch Screen Plastic 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



Features and Applications

Product Features

- Electronic-driven instead of weight -driven, it can test the rockwell full scale;
- Touch screen simple interface, humanized operation interface;
- Machine main body overall pouring, deformation of the frame is small, measuring value is stable and reliable;
- Powerful data processing function, can test 15 kinds of
- Rockwell hardness scales, and can convert HR, HB, HV and other hardness standards;
- Independently stores 500 sets data, and data will be saved when power is turned off;
- Initial load holding time and loading time can be set freely;
- The upper and lower limits of hardness can be set to directly, display qualified or not;
- With hardness value correction function, each scale can be corrected;
- The hardness value can be corrected according to the size of the cylinder;
- Comply with the latest ISO, ASTM, GB and other standards;
- Good reliability, excellent operation and easy watching;
- Electronic driven, simple structure, no weight using;
- Can connect PC to output;
- Conversion different hardness scales.

Product Applications

- Suitable to determine the hardness of soft materials such as plastics, composite materials, various friction materials, soft metals and non-metals.



Interface Display



1. Setting Interface

2. Testing Interface

3. Display Interface

4. Diagram Interface

5. Program Setting Interface

Operation Interface



- Operating Status Display
- Test force: select different scales, automatically correspond to the scale of the test force, can not and do not need to adjust the
- Indenter type: select different scales, automatically correspond to the indenter of this scale
- Loading time: default 5 seconds, generally no need to adjust, the user can also be adjusted according to their own needs.
- Test force-time curve.

Operation Interface

Selection of Experimental Standards



- Users can choose different experimental standards according to their needs: ASTM E140, -DIN18265, GB/T

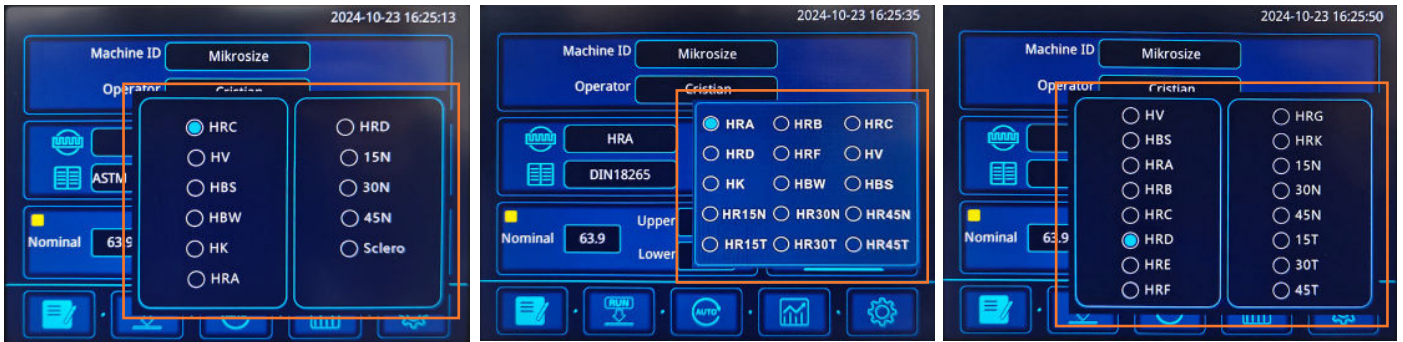
Scale Selection



- Hardness scales supported by the machine:
HRA, HR-B, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HR-R, HRS, HRV, HR15N, HR30 N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45T, HR15X, HR30X, HR45X, HR15Y, HR30 Y, HR45Y

Operation Interface

Scale conversion for different experimental standards



- There are different conversion scales for choosing different experimental standards:

Experimental Standards	Convertible Scale
ASTM	HRC, HV, HBS, HBW, HRC, HRA, HRD, 15N, 30N, 45N, Sclero
DIN	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HBS, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
GBT	HV, HBS, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, 15N, 30N, 45N, 15T, 30T, 45T

Time-delay Control



- Users can choose the appropriate loading time, the default is 5 seconds, generally no need to adjust, the range is 2 ~ 60 seconds.

Operation Interface

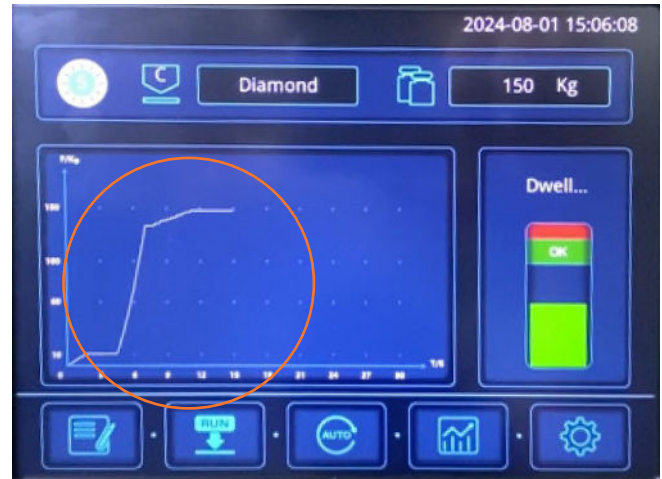
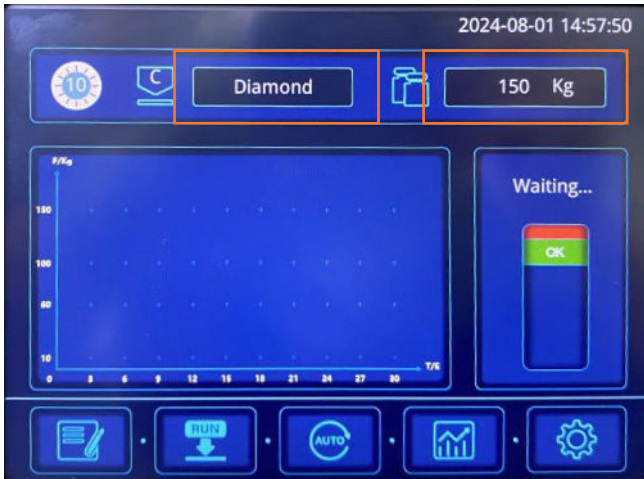
Curved Surface Specimen



- For curved specimens, such as convex cylindrical surfaces, the surface shape affects the accuracy of the hardness test. By setting the radius of curvature, the test results can be corrected to reflect the true hardness value of the specimen, thus improving the accuracy of the test.
- You can also set the standard value and the upper and lower deviation according to the user's products, in order to quickly screen the test products qualified or unqualified.

Operation Interface

Testing Demo



- After the user selects the experimental scale, the test interface will automatically match the corresponding test force and the indenter to be selected.

Scale	Ball indenter	Preliminary test force (N)	Total test force (N)
HRH	φ3.175mm (1/8 inch)	98.07	588.4
HRE			980.7
HRK			1471
HRL	φ6.35mm (1/4 inch)		588.4
HRM			980.7
HRP			1471
HRR	φ12.7mm (1/2 inch)		588.4
HRS			980.7
HRV			1471

Operation Interface

Testing Demo

- After setting up, the handwheel on the rotating wheel screw turns clockwise, the screw rises, should make the standard block slowly and without impact with the indenter contact, until the test interface hardness tester into the display OK position, the buzzer sounds, at this time has been applied to the initial test force, the test bench stops rising.
- The motor starts, the main test force is automatically added, the holding time is 5 seconds, the seconds count down to 0, the motor rotates, the main test force is automatically removed and the initial test force is retained. Buzzer sound, read the hardness value in the hardness display area.
- Reverse the spinning wheel, the test stand is lowered, the test point is replaced and the above operation is repeated.
- Not less than 5 test points on each specimen (point 1 not counted).
- When the test starts, the display will show the test force curve and the count-down of the delay control time.

Test Results Display



- When the user finished measuring, you can view the results of this measurement in the display interface, if the measurement result is within the deviation, the interface will display "PASS", it will also display the measurement scale set by the user, the conversion scale, the standard and the standard value set by the user, and the upper and lower deviation.

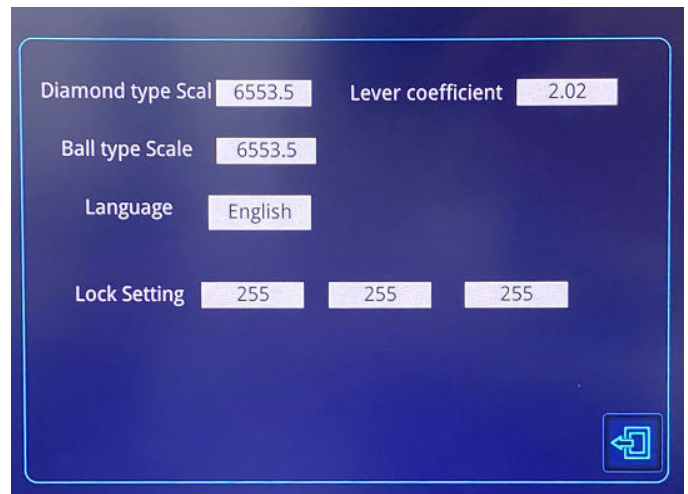
Operation Interface

Test Data Viewing



- This interface can display the maximum value, minimum value, average value, deviation range of each group; you can delete the data, print the data and so on.

Language And Experimental Condition Setting.



- The interface allows you to set the language, the number of times for each group, the type of test, the date and time of the display (long press on the data to modify).

Technical Specification

Product Name	Touch Screen plastic Rockwell Hardness Tester
Model	iRocky-150DP
Measuring Scope	70-100HRE, 50-115HRL, 50-115HRM, 50-115HRR, 50-130 HRS
Initial Test Force	10kgf(98,07N)
Total Test Force	60kgf(558,4N), 100kgf(980,7N), 150kgf(1471N)
The Maximum Height Of The Sample	230mm
Throat	170mm
Indenter	φ3,175mm,φ6,35mm,12.7mm ball indenter
Test Force Application Method	Automatic (loading/staying/unloading)





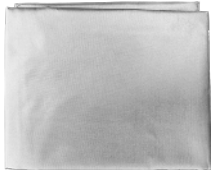



Technical Specification

Hardness Resolution	0.1HR
Hardness Value Display Mode	Touch screen showing
Measuring Scope	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE,HRK, HRL, HRM, HRP, HRR, HRS, HRV
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15THR30T, HR45T, HS, HBW
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T230.2
Power Supply	AC 220V/110V, 50/60 Hz
Dimensions	475x200x700mm
Net Weight	About 60kg
Gross Weight	About 84kg

Standard Delivery

Name	Qty	Photo
Mainframe Machine	1 pc	
Φ3.175mm Ball Indenter	1 pc	
Φ6.35mm Ball Indenter	1 pc	
Φ12.7mm Ball Indenter	1 pc	
Large Flat Test Stage, Φ150mm	1 pc	
Medium Flat Test Stage, Φ58 mm	1 pc	
V-Type Test Stage, Φ58 mm	1 pc	
Standard Hardness Block	5 pcs	

Standard Delivery

Name	Qty	Photo
Gradienter	1 pc	
Power Adapter	1 pc	
Level Adjusting Feet	4 pcs	
Sucker	1 pc	
Dust Cover	1 pc	
Instruction Manual	1 pc	
Product Certificate,	1 pc	
Warranty Card	4 pcs	

Optional Delivery

Optional

Bluetooth Printer

Standard Rockwell Hardness Blocks

Diamond Indenter

Φ1.588 mm Ball Indenter

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