



**BANBROS ENGINEERING PVT. LTD.**  
The Precision Measurement

# DIGITAL ROCKWELL HARDNESS TESTER (MANUAL)

- *VALUE*
- *VERSATILITY*
- *PERFORMANCE*



## **BRH-150AS**



## keypad



Pressing and holding for about 2 seconds (long pressing) to power on or off.

This key will be invalid when the power is plugged in from the back socket. Now, the indicator will automatically power on or off as the power is turned on and off.

### *Under the Measurement*



Set the display to initial value of hardness, 100 or 130.



To Locking the value of hardness.  
Return to measuring interface.



To browse data saved in memory. Press  to return.



To view current setups. Press  to return.

### *Under the Menus*



Enter or confirm the setting.



Changing the setting.  
Move digit.



Exit or return to the previous item.



Move the setup item up. Or increase the value.



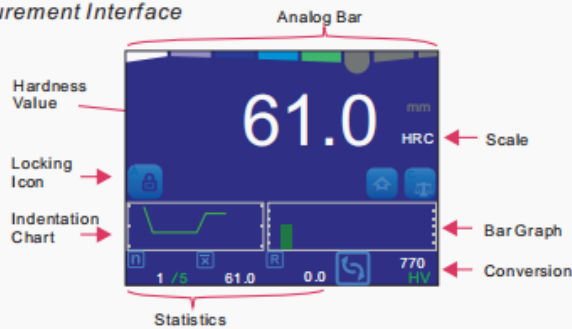
Move the settings item down. Or reduce the value.



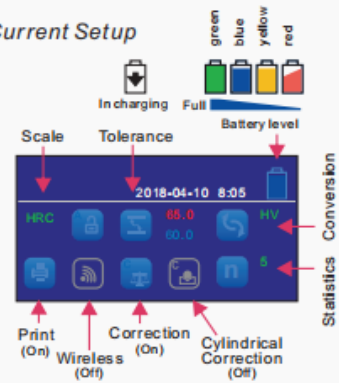


## Display

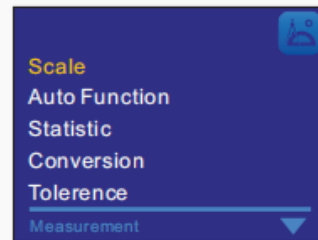
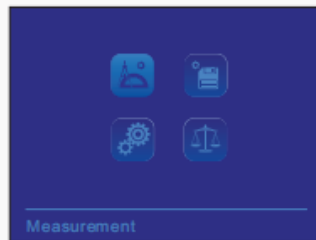
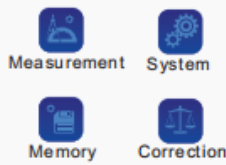
### Measurement Interface



### Current Setup



### Menus Interface



\* The yellow word indicates the currently selected item

## Test Procedure

- 1 Lift the test piece, until the indicator reading is between 2.80mm and 3.20mm (Zeroing zone).



Zeroing automatically.  
For scales of A,C,D,N,T,W,X,Y, to be initialized to "100".  
For the other scales, to be initialized to "130".

- 2 Loading the main test force.



- 4 Lower and remove the test piece. The indicator turns to "0.000mm".



- 3 Unloading the main test force.



Locking the hardness number automatically or pressing



### DESCRIPTION:

**Digital Manual Rockwell Hardness Tester** is the ability of a material to resist elastic deformation, plastic deformation or destructive force. For the hardness test performed by the press-in method, hardness is the ability of a substance to resist being pressed into its surface by another harder object with a certain shape and size.

### FEATURES:

Rockwell hardness test adopts the method of measuring indentation depth, hardness value is read out directly by indication, so the operation is simple and convenient, easy to master, high working efficiency, suitable for batch parts inspection; Rockwell hardness test method can be used to measure hard and soft samples. Rockwell hardness meter is the most commonly used test instrument for hardness test and teaching and scientific research in production enterprises, colleges and universities and scientific research institutions.

### APPLICATION:

Rockwell hardness test can choose different indenter and test force according to material hardness range and test thickness, and expressed by different scales. The most commonly used scales are A, B, C scales. The following table shows the test forces of common scales. Indenter, the value of constant K, the scope of application and application examples.

### TECHNICAL SPECIFICATION:

Model No.	BRH- 150AS
Initial test force	98.07N ( 10kgf )
Total test power	588.4N ( 60kgf ) 980.7N ( 100kgf ) 1471N (150kgf)
Indicator	Digital display
Maximum height of specimen When the lead screw protector is	Added100mm Without a lead screw cover170mm
Indentation center distance to machine wall	135mm
Hardness gauge shape dimensions	466×238×630mm
Hardness gauge net weight	65kg

\* Image is for reference purpose only; due to continuous product development and upgradation the image and specification are subject to change.