

## iLeeb-150

### Pen Type Leeb Hardness Tester



Video



#### Contact us

**Mikrosize Precision Instrument Co.,Ltd**

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

Web: [www.mikrosize.com](http://www.mikrosize.com)

Email: [mikrosize@mikrosize.com](mailto:mikrosize@mikrosize.com)



Web: [www.mikrosize.com](http://www.mikrosize.com)

Email: [mikrosize@mikrosize.com](mailto:mikrosize@mikrosize.com)

## Product Features and Application

### Product Features

- Intelligent and user-friendly, compact and portable, with an integrated design devoid of connecting cables, enhancing reliability;
- Industrial-grade high-brightness OLED display, visible even under direct sunlight, suitable for various lighting conditions;
- High-precision measurement circuit ensuring an indication error of  $\pm 0.5\%$  (HLD=800) and indication repeatability of 0.8%;
- Supports multiple hardness scales: HL, HV, HRC, HRB, HB, HS;
- Capable of storing 270 sets of hardness measurement data, each set including average value and hardness scale;
- USB charging, compatible with most digital product interfaces such as smartphones;
- When testing "forged steel" samples with a D-type impact device, the HB value can be directly read without manual table lookup;
- Pre-set upper and lower hardness limits with automatic alarms when out of range, facilitating users' batch testing needs.

### Product Application

- Mold cavities, heavy workpieces, large bearings, and other parts
- Failure analysis of pressure vessels, turbine generator sets, and their equipment
- Installed machinery or permanently assembled components, workpieces with limited testing space
- Requirements for formal original records of test results
- Rapid inspection of multiple measurement points within a large range on large workpieces



## Interface Display



1.Measurement Value    2.Battery Level    3.Impact Material    4.Average Value  
5.Hardness Scale    6.Impact Direction



1. Menu    2. Down    3. Up    4. Power Switch

# Setting Interface



Measurement Settings: On this interface, users can set the instrument's impact direction, average number of impacts, impact material, hardness scale, and upper and lower tolerance limits.



Memory Settings: On this interface, users can select to browse files, delete files, and select storage files.



Instrument Settings: On this interface, users can set the instrument's automatic storage function, eliminate gross errors, and choose the language.





## Instrument Calibration









When the measurement error is relatively large, users can calibrate this instrument using a standard Leeb hardness block. Measure five points on the standard Leeb hardness block to obtain an average value, and users can adjust according to the hardness block value



## Technical Parameters

<b>Measuring Range</b>	(170-960) HLD, (17.9-69.5) HRC, (19-683) HB, (80-1042) HV, (30.6- 102.6) HS, (59.1-88) HRA, (13.5-101.7) HRB
<b>Measuring Directions</b>	Testing Direction:360 Vertical,Tilt down, Level,Slope,Vertical up
<b>Hardness Scale</b>	HL, HB, HRB, HRC, HV, HS
<b>Display Resolution</b>	±0.5%(HLD =800)
<b>Repeatability of Indication</b>	0.8%(HLD =800)
<b>Impact Device: D/DL</b>	Impact energy: 11mJ
	Impact mass: 5.5g/7.2g
<b>Indication Error</b>	±0.5%
<b>Display</b>	Industrial grade 128 × 64 graphic dot matrix OLED liquid crystal
<b>Power Supply</b>	Rechargeable Li battery
<b>Working Time</b>	20 hours
<b>Dimensions</b>	148mm×30mm×30mm

## Standard Delivery

Items	Qty	
Main unit	1pc	
Standard test block	1pc	
Cleaning brush	1pc	
Small support ring	1pc	
Battery charger	1pc	
Manual	1copy	
Communication cable	1pc	
Instrument box	1pc	