

# Mikrosize®

## iLeeb-210 Leeb Hardness Tester



Video



### Contact us

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## Product Features and Application

### Product Features

- Compact design for easy portability and usage;
- Multiple interfaces and buttons facilitate device connection, operation, and control;
- A variety of impact devices cater to different measurement needs, with a powerful digital display unit;
- A large touchscreen LCD clearly displays a wealth of information including impact device type, material, conversion value, impact direction, hardness value, statistical information, statistical points, backlight, and more, providing convenience for user viewing and operation;
- A broad hardness display range (0-999HLD) with accuracy ( $\pm 6\text{HL}$ ) that meets conventional measurement requirements; a data storage capacity of up to 500 measurement data points allows for the recording of numerous measurement results;
- Comprehensive testing functionality, from instrument preparation, specimen preparation, to the testing process, data browsing, and report printing, with standardized operations and complete procedures at each stage;
- Versatile setting functions, with settings on the main interface, menu, calibration, etc., covering measurement, printing, storage management, and more.

### Product Application

- Suitable for hardness testing of various materials such as steel and cast steel, alloy tool steel, stainless steel, gray cast iron, ductile cast iron, cast aluminum alloy, brass, bronze, copper, forged steel, and more;
- Can be used for raw material inspection and hardness testing of semi-finished and finished products during the production process. By setting tolerance limits and over-limit alarm functions, it can promptly detect products with abnormal hardness, ensuring that product quality meets requirements;
- Used for researching the impact of different materials or processing techniques on material hardness.



Instrument Structure



1. Main Unit      2. Hardness Block      3. Impact Device      4. LCD Screen

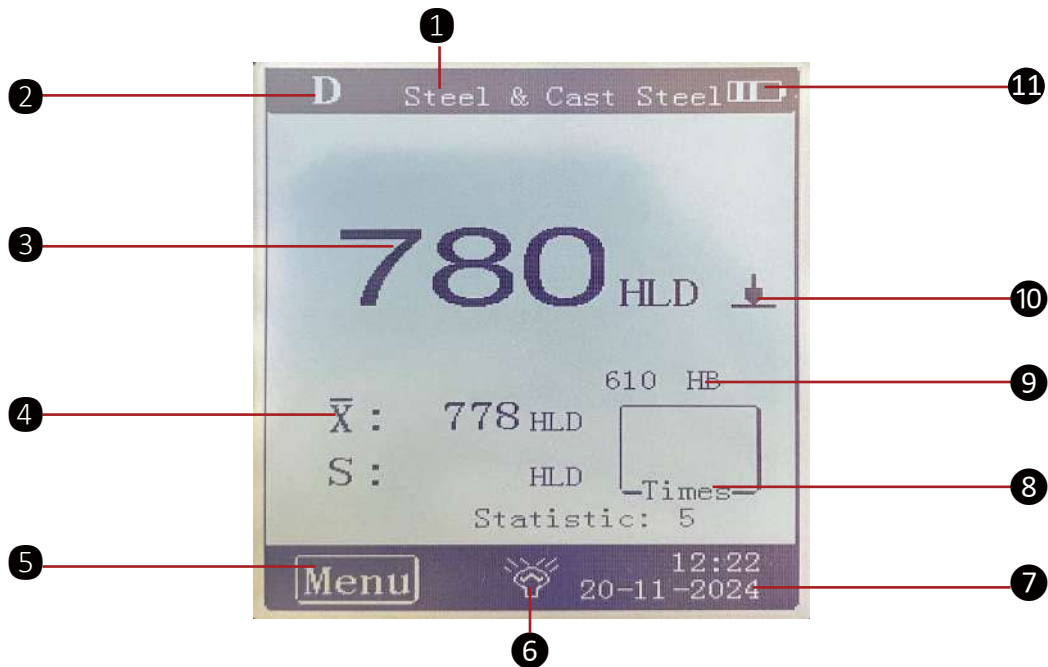


1. Battery Compartment      2. Battery      3. Battery Cover



1. Sensor Jack      2. USB Jack      3. Charging Jack      4. Stand

## Operation Interface



**1. Material Selection**

**4. Statistics: Mean and Range**

**7. Time Display**

**10. Direction of Impact**

**2. Type of Impact Device**

**5. Menu Button**

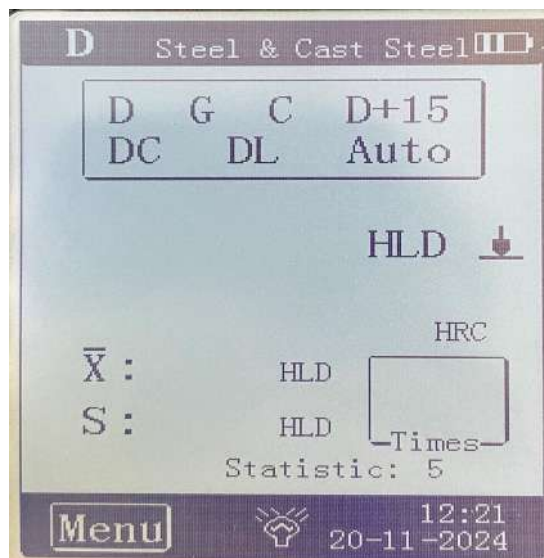
**8. Number of Tests**

**11. Battery Level**

**3. Hardness Value**

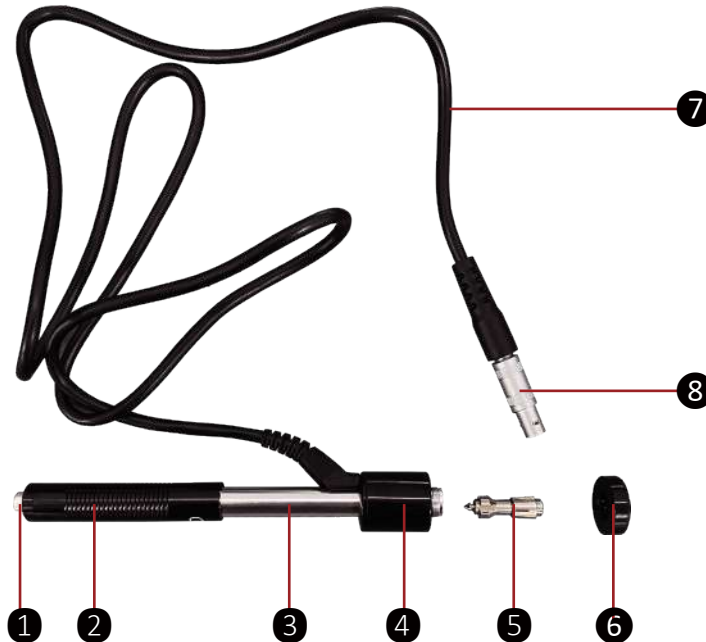
**6. Backlight Button**

**9. Conversion Value**



### Main Interface - Impact Head Conversion

## Impact Device



**1. Release Button**  
**5. Impactor**

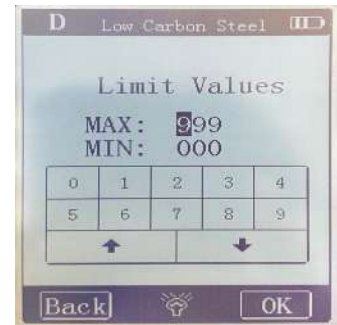
**2. Loading Sleeve**  
**6. Supporting Ring**

**3. Conduit**  
**7. Conducting Wire**

**4. Coil Component**  
**8. Connector**



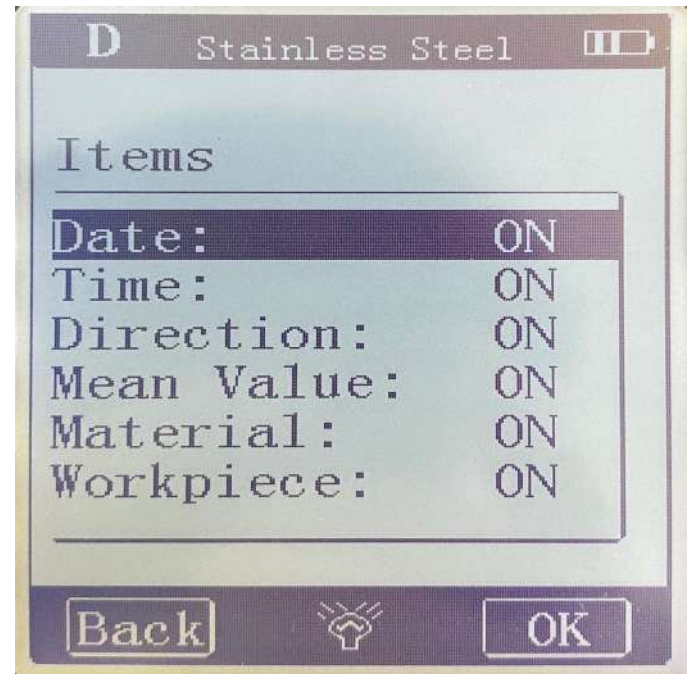
## Setting Interface



### Testing Setup

Users can set the material to be tested, impact direction, scale, tolerance, statistical points, and workpiece number on this interface

## Setting Interface



### Printing Setup

On this interface, users can select the print option, choosing to print selected data or all data

## Setting Interface



### Memory management

Users can also opt to browse data sequentially or view all data on this interface. Selected data or all data can be deleted. Data can be uploaded to a computer via a data cable.



## Setting Interface



### System Setting

- Customizable user-defined materials can be set, with options for A, B, and C.
- Automatic print settings can be configured.
- Gross error settings: When enabled, a "!" will appear if a gross error is detected.
- Keypad sound switch: Allows users to turn on or off the keypad buzzer sound.
- Language settings: Five languages can be set.
- Date and time settings can be configured.
- Backlight duration can be set to 15s, 30s, 45s, or 3min.

## Setting Interface



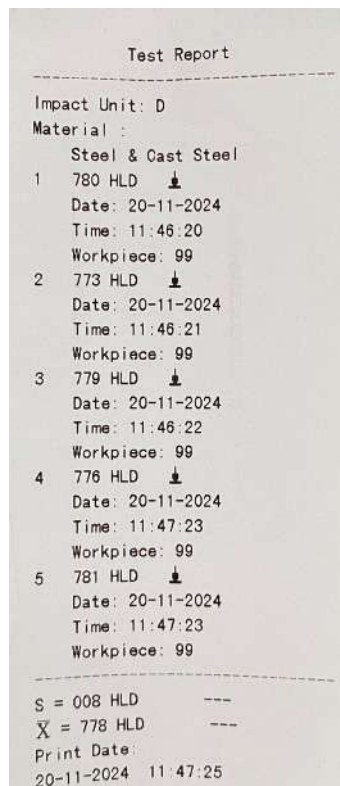
### Calibration

**Users can calibrate the measured result values on this interface;  
Calibrate the positioning of the instrument's touchscreen;**

## Printer Connection

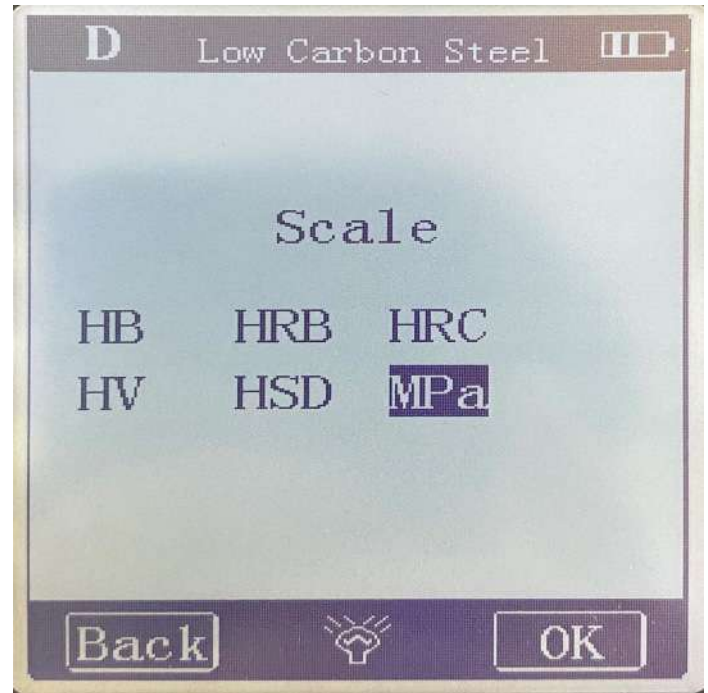


**The instrument connects to the printer via Bluetooth, allowing users to directly select printing after measurement. The printer can quickly print out the measurement results;  
The printed result displays detailed information.**



**he displayed information on the printout is detailed.**

## Tensile Scale Conversion



**This instrument is equipped with a conversion scale for tensile strength. Users who require it can select this conversion scale in the "Scale" setting of the measurement settings.**



## Technical Parameters

<b>HL Display Range</b>	0~999HLD
<b>Accuracy</b>	± 6 HL
<b>Unit Display</b>	large LCD, backlight, touch screen
<b>Unit Material</b>	shock resistant ABS plastic
<b>Internal Data Storage</b>	500 measured value
<b>Resolution</b>	1 HL; 1 HV; 1 HB; 0.1 HRC; 0.1 HRB; 1 HSD; 1 MPa
<b>Battery Type</b>	rechargeable Ni-MH battery
<b>Operating Temperature</b>	0°C~+50°C (32°F~122°F)
<b>Storage Temperature</b>	-10°C~+60°C (14°F~140°F)
<b>Humidity</b>	90 % max.
<b>Dimension</b>	130 x 87 x 28 mm (5.1 x 3.3 x 1.1 inches)
<b>Weight</b>	240g



Standard Delivery

Name	Qty	
Main unit	1	
D type impact device	1	
Standard test block	1	
Charging plug	1	
Communication cable	1	
Cleaning brush	1	
Small support ring	1	
Manual	1	
Instrument box	1	
Mini printer	1	