Mikrosize®

iLeeb-210

Leeb Hardness Tester

Video

Contact us

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Mikrosize®

Features and Applications

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 (±6HL) 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 Applications

- 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 Appearance

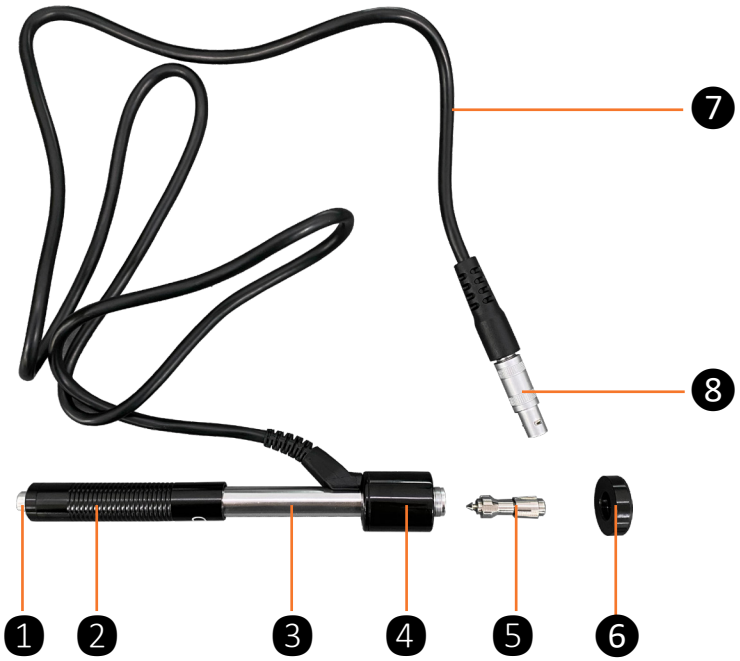
1. Main Unit	2. Hardness Block	3. Impact Device	4. LCD Screen

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

Instrument Appearance

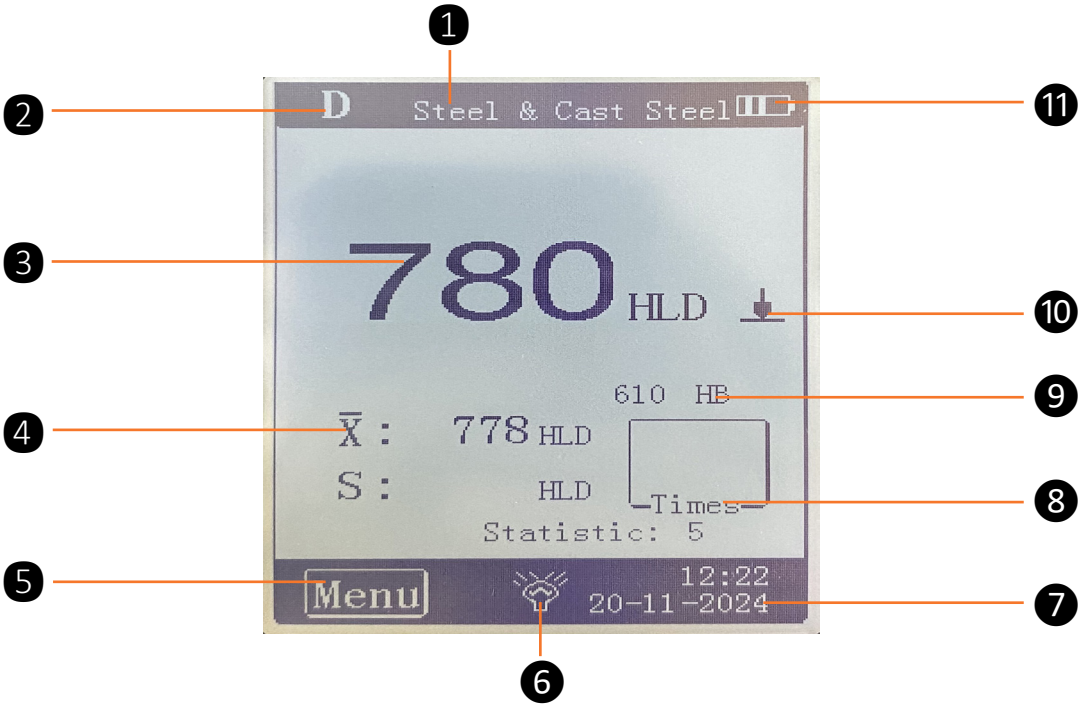
1. Battery Compartment	2. Battery	3. Battery Cover

Impact Device



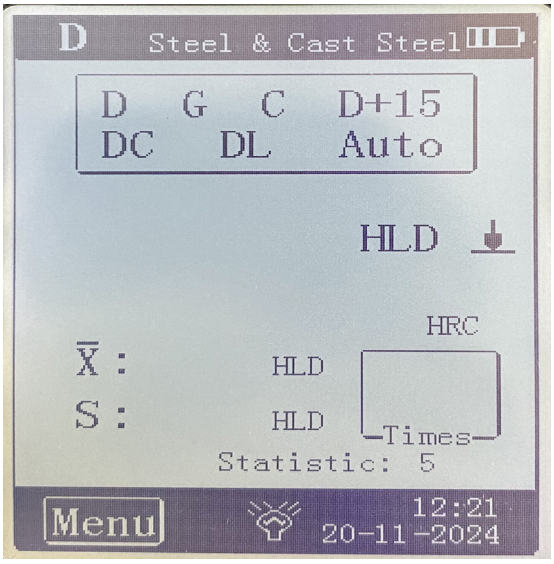
1.Release Button	2. Loading Sleeve	3. Conduit	4. Coil Component
5.Impactor	6. Supporting Ring	7. Conducting Wire	8. Connector

Operation Interface



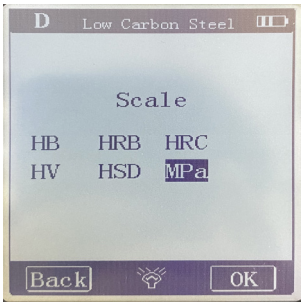
1. Material Selection	2. Type of Impact Device	3. Hardness Value
4. Statistics: Mean and Range	5. Menu Button	6. Backlight Button
7. Time Display	8. Number of Tests	9. Conversion Value
10. Direction of Impact	11. Battery Level	

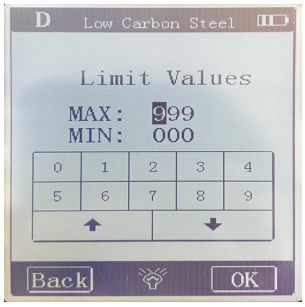
Main Interface - Impact Head Conversion



Operation Interface

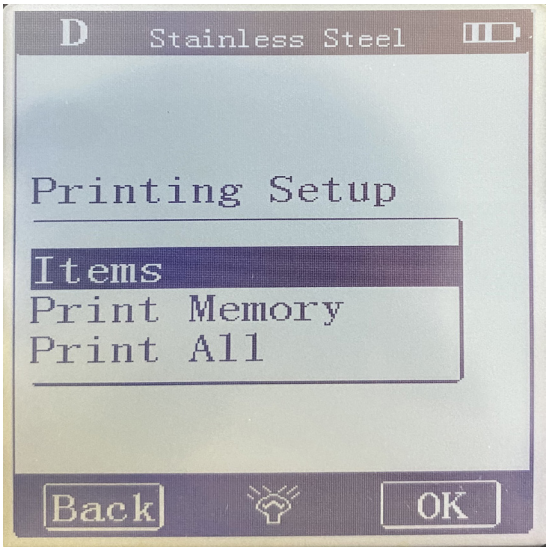
Testing Setup

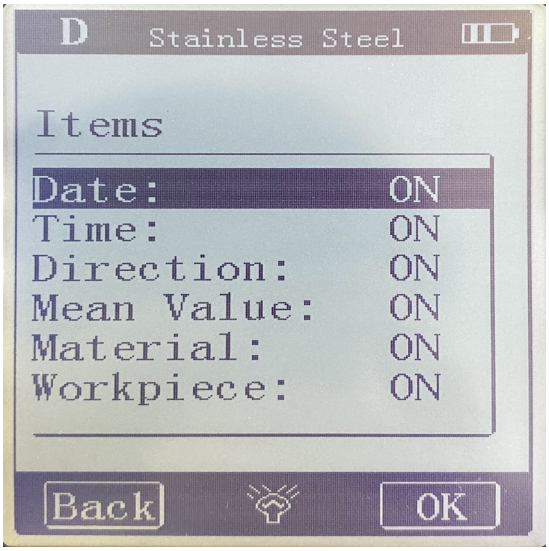




- Users can set the material to be tested, impact direction, scale, tolerance, statistical points, and workpiece number on this interface

Printing Setup

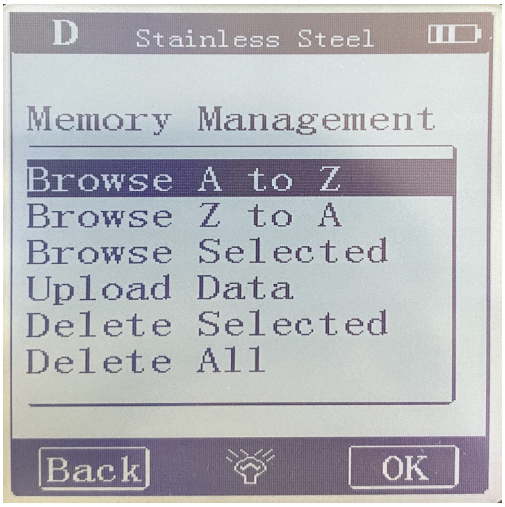




- On this interface, users can select the print option, choosing to print selected data or all data

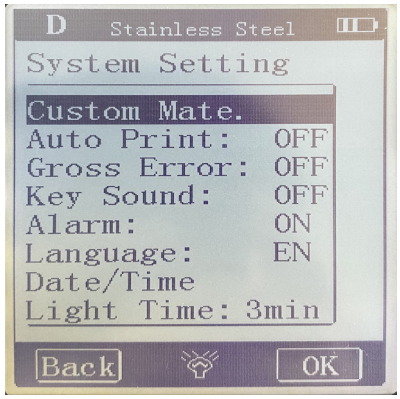
Operation Interface

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.

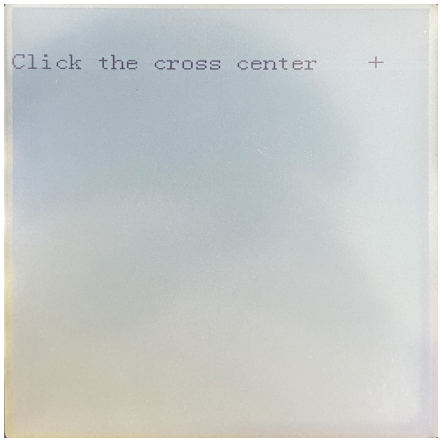
System Setting



- 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.

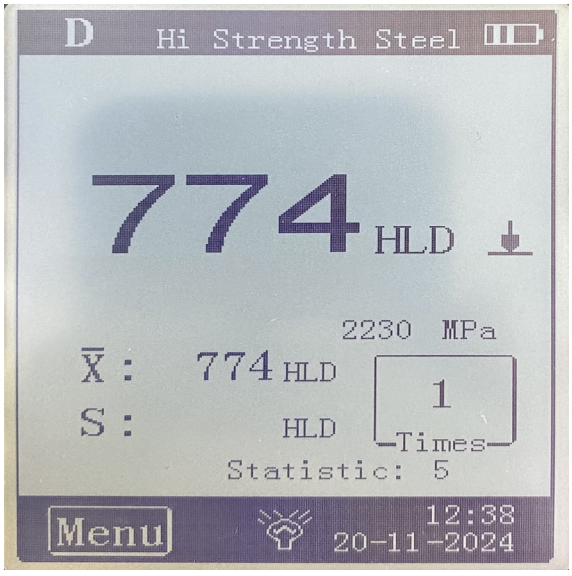
Operation Interface

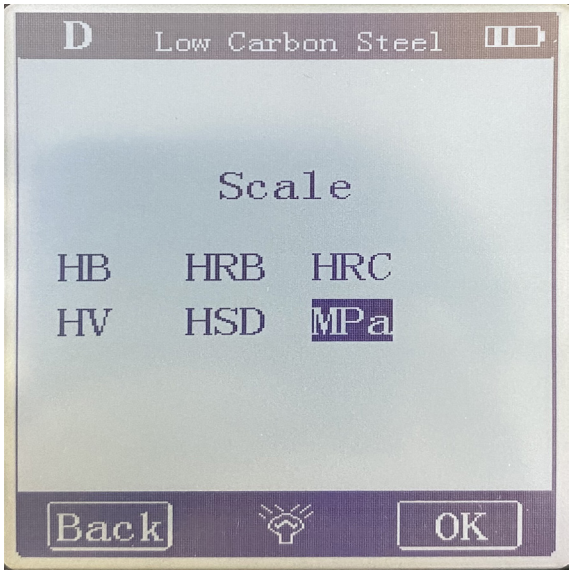
Calibration



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

Tensile Scale Conversion



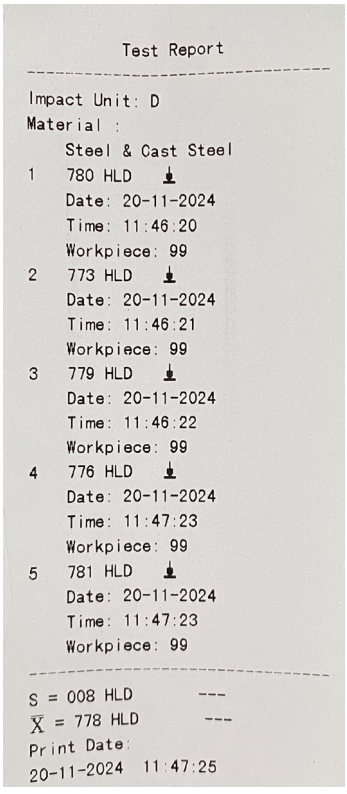


- This instrument is equipped with a conversion scale for tensile strength. Users who require it can select this conversion scale in the "Scale" setting of the measurement settings.

Product Details

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.



Test Report

Impact Unit: D
Material :
Steel & Cast Steel
1 780 HLD
Date: 20-11-2024
Time: 11:46:20
Workpiece: 99
2 773 HLD
Date: 20-11-2024
Time: 11:46:21
Workpiece: 99
3 779 HLD
Date: 20-11-2024
Time: 11:46:22
Workpiece: 99
4 776 HLD
Date: 20-11-2024
Time: 11:47:23
Workpiece: 99
5 781 HLD
Date: 20-11-2024
Time: 11:47:23
Workpiece: 99

S = 008 HLD ---
$\bar{X}$ = 778 HLD ---
Print Date:
20-11-2024 11:47:25

- He displayed information on the printout is detailed.

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Technical Specification

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

Standard Delivery

Name	Qty	Photo
Main Unit	1 pc	
Small Support Ring	1 pc	
Battery Charger	1 pc	
Instrument Box	1 pc	

Standard Delivery

Name	Qty	Photo
Communication Cable	1 pc	
Cleaning Brush	1 pc	
Small Support Ring	1 pc	
Manual	1 copy	
Instrument Box	1 pc	
Mini Printer	1 pc