

## Portable Digital Leeb Hardness tester SHL-140



### Description:

SHL-140 Portable Leeb Hardness tester used to measure the hardness value of the HRC, HRB, HL, HB, HV, HS. In accord with the standards of the ZBN71010-1990, GB/T 17394-1998, JB/T9378-2001.

SHL-140 Leeb Hardness tester can equip 2 kinds of different impact device: D type and DL type. Designed with the advantage of super low power consumption, with the big capacity chargeable lithium battery and could work for a long time, the small and light size makes it's operated easily.

According to the Leeb hardness tester working principle, it can measure many kinds of metal materials. Support for the Steel material, when using the "D/DC" impact device to test the Steel, it could read the HB value directly. Convenient to convert to the all hardness scale of HL, HB, HRB, HRC, HRA, HV, HS.

### Features:

Display: With the English menu and easy operation. The white backlight display makes it convenient for the dark place.

Data communication: USB port and other optional.

Measuring function: Can equipped with 7 kinds of impact device and when change the impact device no need to re-calibrate.

Data memory: 48~350 groups of data (including of the each measuring data, average value, date, impact direction, frequency, material, hardness unit, etc.)

Alarm output: Could set the high alarm data and low alarm data, when beyond the range will alarm, suitable for the batch testing.

Calibration function: With the indication software calibration function.

Battery: 2\* 1.5v AA battery

**Technical parameter:**

Indication error and repeatability:

| Item | Impact device | Standard Leeb Hardness block value | Indication error   | Indication repeatability |
|------|---------------|------------------------------------|--------------------|--------------------------|
| 1    | D             | 760±30HLD<br>530±40HLD             | ±5 HLD<br>±8 HLD   | 5 HLD<br>8 HLD           |
| 2    | DC            | 760±30HLDC<br>530±40HLDC           | ±5 HLDC<br>±8 HLDC | 5 HLD<br>8 HLD           |
| 3    | DL            | 878±30HLDL<br>736±40HLDL           | ±10<br>HLDL        | 10 HLDL                  |
| 4    | D+15          | 766±30HLD+15<br>544±40HLD+15       | ±10<br>HLD+12      | 10 HLD+12                |
| 5    | G             | 590±40HLG<br>500±40HLG             | ±10 HLG            | 10 HLG                   |
| 6    | E             | 725±30HLE<br>508±40HLE             | ±10 HLE            | 10 HLE                   |
| 7    | C             | 822±30HLC<br>590±40HLC             | ±10 HLC            | 10 HLC                   |

Measuring range: HLD (170~960), HRA (59~85), HRB (13~100), HRC (18~68), HB (19~655), HV (80~976), HS (32~100)

Measuring direction: 360°

Hardness scale: HL, HB, HRB, HRC, HRA, HV, HS.

Impact device: D type impact device standard, optional C/G/DC/D+15/E/DL.

Material: Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper and forged steel.

Display: 128\*32 OLED display

Data memory: 48~350 groups.

Battery: 2\* 1.5v AA battery (Working for 80hours continuously, when not open the backlight.)

Working temperature: 0~40 degree

Storage temperature: -25~70 degree

Size: 148\*71\*33mm

Weight: About 165g

**Standard accessories:**

|                         |     |
|-------------------------|-----|
| SHL-140 Hardness tester | 1pc |
| D type impact device    | 1pc |
| Nylon brush             | 1pc |
| High value test block   | 1pc |
| Small support ring      | 1pc |
| Operation manual        | 1pc |

**Optional accessories:**

Different type Impact device and support ring

Leeb hardness block with different value

Our company provides the different type Hardness tester, including of the Rockwell Hardness tester, Leeb Hardness tester, Barcol Hardness tester, Webster Hardness tester, Micro Hardness tester.

If you want to know more details, welcome to contact us.

**Ada Bu**

**Henan Oceanus Import & Export Co., Ltd.**

**Email: [adabu@china-oceanus.com](mailto:adabu@china-oceanus.com)**

**Skype:adabu66**

**Tel:( 0086) 15981942832**