

# Mitech MH100 PEN-TYPE PORTABLE HARDNESS TESTER

## ADVANTAGES

- ◆ Compact and integrated. The impact device and the main body integrated together.
- ◆ Wide measuring range. Based on the principle of Leeb hardness testing theory. It can measure the leeb hardness of all metallic materials.
- ◆ Large LCD screen, showing all functions and parameters. With EL background light.
- ◆ Test at any angle, even upside down.
- ◆ Direct display of hardness scales HRB, HRC, HRA, HV, HB, HS, HL.
- ◆ Large memory could store 100 groups (Relative to average times 32 ~ 1 ) information including single measured value, mean value, impact direction, impact times, material and hardness scale etc.
- ◆ Battery information showing the rest capacity of the battery and the charge status.
- ◆ User calibration function.
- ◆ Software to connect to PC via USB port.
- ◆ Li-Ion rechargeable battery as the power source. Rechargeable circuit integrated inside the instrument. Continuous working period of no less than 200 hours (without backlight and no printing).
- ◆ Auto power off to save energy.
- ◆ Outline dimensions: 148mm×33mm×28mm

## TECHNICAL SPECIFICATIONS

- ◆ Error and repeatability of displayed value in Table1-1 below.

Table 1-1

No.	Type of impact device	Hardness value of Leeb standard hardness block	Error of displayed value	Repeatability
1	D	760±30HLD 530±40HLD	±6 HLD ±10 HLD	6 HLD 10 HLD
2	DL	878±30HLDL 736±40HLDL	±12 HLDL	12 HLDL
3	C	822±30HLC 590±40HLC	±12 HLC	12 HLC

- ◆ Measuring range: HLD ( 170~960 )
- ◆ Measuring direction: 0° ~360°
- ◆ Hardness Scale: HL, HB, HRB, HRC, HRA, HV, HS
- ◆ Display: segment LCD
- ◆ Data memory: 100 groups max. ( relative to impact times 32~1 )
- ◆ Battery: 3.7V Li-Ion, Rechargeable
- ◆ Battery charger: 5V/500mA
- ◆ Continuous working period: about 200 hours ( With backlight off, no printing )
- ◆ Communication interface: USB1.1

## WORKING CONDITIONS

Working temperature: -10°C ~ +50°C;

Storage temperature: -30°C ~ +60°C;

Relative humidity: ≤90%;

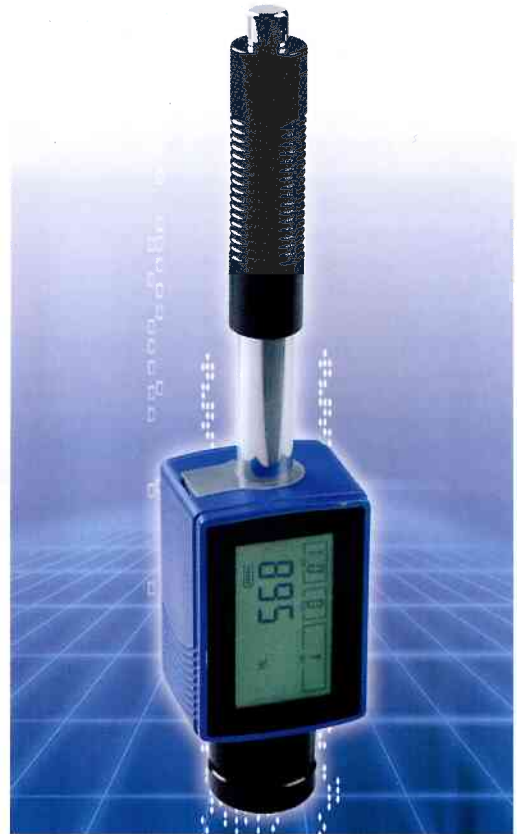
The surrounding environment should avoid vibration, strong magnetic field, corrosive medium and heavy dust.

## MAIN APPLICATION

- ◆ Die cavity of molds
- ◆ Bearings and other parts
- ◆ Failure analysis of pressure vessel, steam generator and other equipment
- ◆ Heavy work piece
- ◆ The installed machinery and permanently assembled parts
- ◆ Testing surface of a small hollow space
- ◆ Material identification in the warehouse of metallic materials
- ◆ Rapid testing in large range and multi-measuring areas for large-scale work piece

## TESTING RANGE

The model includes D type, C type and DL type according to the impact device.



## STANDARD CONFIGURATIONS

- |                            |   |
|----------------------------|---|
| 1 Main Unit                | 1 |
| 2 Cleaning brush           | 1 |
| 3 Small support ring       | 1 |
| 4 Standard test block      | 1 |
| 5 Data proceeding Software | 1 |
| 6 Li-ion battery           | 1 |
| 7 Manual                   | 1 |
| 8 Battery charge           | 1 |
| 9 USB cable                | 1 |
| 10 ABS instrument case     | 1 |

## OPTIONAL CONFIGURATION

Other type impact device and support rings

