

### MH180 Portable Hardness tester



#### Technical Specifications:

- Measuring range: HLD ( 170 ~ 960 ) HLD
- Measuring direction: 0~360°
- Hardness Scale:  
HL, HB, HRB, HRC, HRA, HV, HS
- Display: segment LCD
- Data memory: max. 100 groups ( relative to impact times 32 ~ 1 )
- Working power: 3V ( 2 AA size alkaline batteries )
- Continuous working period: about 100 hours ( With backlight off )
- Communication interface: RS232
- Outline dimensions: 150 × 74 × 32 mm
- Weight: 245g

#### Advantages:

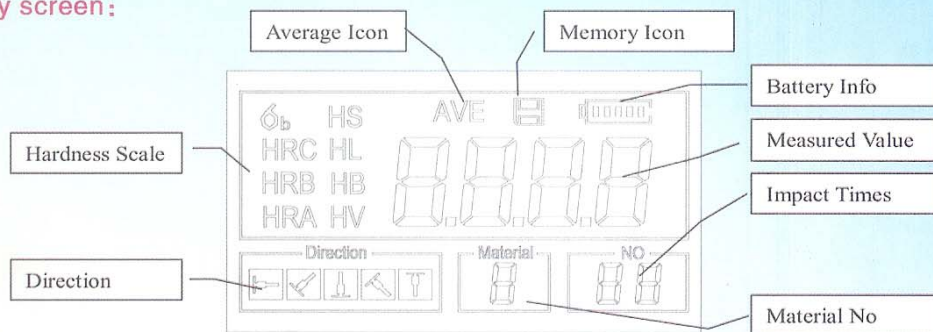
- Wide measuring range. Based on the principle of Leeb hardness testing theory. It can measure the Leeb hardness of all metallic materials.
- Large screen LCD, showing all functions and parameters. With EL background light.
- Seven impact devices are available for special application. Automatically identify the type of impact devices.
- Test at any angle, even upside down. Support rings for shaped materials.
- Direct display of hardness scales HRB, HRC, 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.
- User calibration function.
- Software to connect to PC via RS232 port. Micro printer support.
- Compact plastic case, suitable for use under poor working conditions
- Continuous working period of no less than 100 hours with two alkaline batteries(AA size), Auto power off to save energy.

#### 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 pie



### Main display screen:



### Standard Configuration:

No	Item	Quantity
1	Main unit	1
2	D type impact device	1
3	Standard test block	1
4	Cleaning brush (I)	1
5	Small support ring	1
6	Alkaline battery	2
7	Manual	1
8	Instrument package case	1

### Optional Configuration:

1	Cleaning brush (II)	1
2	Other type of impact devices	7
3	Tool for impact ball	1
5	Other type of support rings	12
6	Other type of impact ball/ body	1
7	Other type of block	1
8	DataPro software	1
9	Communication cable	1
10	Micro Printer	1
11	Print cable	1



### Testing conditions:

Type of impact device	DC(D)/DL	D+15	C	G	E
Impacting energy	11mJ	11mJ	2.7mJ	90mJ	11mJ
Mass of impact body	5.5g/7.2g	7.8g	3.0g	20.0g	5.5g
Test tip hardness:	1600HV	1600HV	1600HV	1600HV	5000HV
Dia. Test tip:	3mm	3mm	3mm	5mm	3mm
Material of test tip:	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	synthetic diamond
Impact device diameter:	20mm	20mm	20mm	30mm	20mm
Impact device length:	86(147)/ 75mm	162mm	141mm	254mm	155mm
Impact device weight:	50g	80g	75g	250g	80g
Max. hardness of sample	940HV	940HV	1000HV	650HB	1200HV
Mean roughness value of sample surface Ra:	1.6 μm	1.6 μm	0.4 μm	6.3 μm	1.6 μm
Min. weight of sample:	>5kg	>5kg	>1.5kg	>15kg	>5kg
Measure directly	2~5kg	2~5kg	0.5~1.5kg	5~15kg	2~5kg
Need support firmly	0.05~2kg	0.05~2kg	0.02~0.5kg	0.5~5kg	0.05~2kg
Need coupling tightly					
Min. thickness of sample	5mm	5mm	1mm	10mm	5mm
Coupling tightly	≥0.8mm	≥0.8mm	≥0.2mm	≥1.2mm	≥0.8mm
Min. layer thickness for surface hardening					

### Accessories:

