

### Measuring principle

This instrument employs the rebound method of measuring hardness by using an assembly of an impact body and magnets to measure the impact and rebound velocities from the material under test to determine the Leeb Hardness, which can be converted to general hardness scales of HV, HB, HS, HRC, HRB, etc., for analysis.

### Applications

This can be used to measure the hardness of die cavity of moulds, inspection of bearings, installed machinery, heavy work pieces and other mass produced parts in a production line, failure analysis of pressure vessel, steam generator and other equipment, material identification in the warehouse of metallic materials, rapid testing in large range and multi-measuring areas for large-scale work piece.



### Features

- Converts to all common scales of HV, HB, HRC, HRB, HRA, HS.
- 128x64 dot-matrix backlit LCD display.
- Inbuilt function of Software Calibration.
- Memory storage of 600 groups of data.
- Material of “cast steel” is added; HB values can be read out directly when D/DC impact device is used to measure “cast steel” work piece.

### Technical Specifications

Model	<b>Metrix+ Hardmaster-P</b>
Hardness scales	HL, HB, HRB, HRC, HRA, HV, HS
Memory	48~600 groups (impact times: 32~1)
Measuring range	HLD (170~960)
Accuracy	±6HLD (760±30HLD) error of displayed value 6HLD (760±30HLD) repeatability of displayed value
Standard Impact Device	D
Optional Impact Devices	DC/D+15/G/C/DL
Max. Workpiece Hardness	996HV(For Impact Devices D/DC/DL/D+15/C) 646HB(For Impact Device G)
Min. Radius of Workpiece	Rmin = 50mm (with special support ring Rmin= 10mm)
Min. Workpiece weight	2~5kg on stable support ; 0.05~2kg with compact coupling
Min. Workpiece thickness	5mm (Impact Devices D/DC/DL/D+15) 1mm (Impact Device C) 10mm (Impact Device G)
Min. thickness of hardened surface	0.8mm

<b>Power</b>	3 x AA Battery
<b>Continuous Working time</b>	approx. 100 h (with backlight)
<b>Operating temperature</b>	0~40°C
<b>Relative humidity</b>	≤90%
<b>Overall dimensions</b>	125 x 67 x 31mm (main unit)
<b>Weight</b>	0.3kg (main unit)
<b>Standard Configuration</b>	Main Unit, Impact Device Type D, Leeb Standard Test Block, Cleaning Brush, Supporting Ring, Manual, Carrying Case.
<b>Optional Configuration</b>	Mini-printer, Data Pro Software(USB) + Communication Cable