

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 HL, HB, HRC, HRB, HRA, HV, HS
- Pen type ergonomic and skid proof design
- 128×32 OLED display with user friendly menu interface
- Inbuilt function of Software Calibration.
- Memory storage of 600 groups of data.



Technical Specifications

| Model | Metrix+ LHT 1 |
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| Hardness scales | HL, HB, HRC, HRB, HRA, HV, HS |
| Measuring range | 170 ~ 960 HLD |
| Measuring direction | 360° |
| Memory | 600 units |
| Accuracy | 760 \pm 30HLD: \pm 6HLD 530 \pm 40HLD: \pm 10HLD |
| Standard Impact Device | D integrated |
| Max. Workpiece Hardness | 900 HLD |
| 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 |
| Min. thickness of hardened layers | 0.8mm |
| Average Surface Roughness of Work piece | 1.6 μ m(Ra) |
| Power | 3.7V rechargeable Li-Ion battery |

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|--------------------------------|---|
| Continuous Working time | approx. 60 h (without backlight) |
| Operating temperature | 0~40°C |
| Relative humidity | ≤90% |
| Overall dimensions | 153 x 54 x 24mm |
| Weight | 250g |
| Standard Configuration | Main Unit with integrated impact device D, Leeb Standard Test Block, charger, cleaning brush, small supporting Ring, manual, carrying case. |

Pictures

