Economical Portable Hardness Tester MH180

Features and Specifications

- Compact plastic case, suitable for use under poor working conditions. Test at any angle, 360° (↓ ↖ ↗↘ ↙→←↑)
- Wide measuring range. It can measure the hardness of all metallic materials. Direct display of hardness scales (170-960) HLD, (17-68.5)HRC, (19-651)HB, (80-976)HV, (30-100)HS, (59-85)HRA, (13-100)HRB
- Large screen (segment LCD), showing all functions and parameters with EL background light
- Large capacity memory could store 100 groups information
- Optional data proceeding software to connect with PC via RS232 port. Micro printer support
- Software calibration function
- Working voltage: 3V (2 AA size alkaline batteries)
- Continuous working period: about 100 hours without backlight

Testing Conditions:

Type of impact device	DC(D)DL	D+15	C	G	E
Impact energy Mass of impact body	11mJ 5.5g/7.2g	11mj 7.8g	2.7mJ 3.0g	90mJ 20.0g	11mJ 5.5g
Test tip hardness Dia. Test tip Material of test tip	1600HV 3mm Tungsten carbide	1600HV 3mm Tungsten carbide	1600HV 3mm Tungsten carbide	1600HV 5mm Tungsten carbide	5000HV 3mm Synthetic diamond
Impact device diameter Impact device length Impact device weight	20 mm 86(147)/75mm 50g	20mm 162mm 80g	20mm 141mm 75g	30mm 254mm 250g	20mm 155mm 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 Measure directly Need support firmly Need coupling lightly	>5kg 2-5kg 0.05-2kg	>5kg 2-5kg 0.05-2kg	>1.5kg 0.5-1.5kg 0.02-0.5kg	>15kg 5-15kg 0.5-5kg	>5kg 2-5kg 0.05-2kg
Min thickness of sample coupling tightly Min layer of thickness for surface hardening	5mm ≥0.8mm	5mm ≥0.8mm	1mm ≥0.2mm	10mm ≥1.2mm	5mm ≥0.8mm