

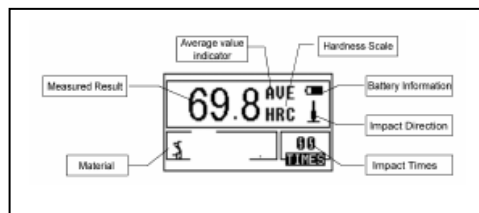


ISO9001

Hardness Tester TH140



- Developed Model of HLN-11A
- Automatic identification of Impact devices
- On-Board memory holds 48-350 groups of data
- Software to connect with PC
- Upper and lower limit and sound alarm
- Large LCD with backlight, showing all functions and parameters
- Press HELP key can obtain operating tips in any displaying interface
- Direct display of hardness scales HRB, HRC, HV, HB, HS,HL
- Conversion to tensile strength (U.T.S)
- For all metallic materials
- Test at any angle, even upside down
- Removable printer included
- Wide measuring range (see next page)
- Six Impact Devices are available for special application
- Battery low indication and sound alarm



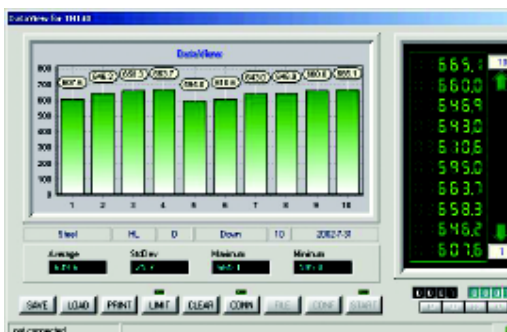
Technical specifications

Hardness scale	HL, HRC, HRB, HRA, HV, HB, HS
Memory	48-350 group (Impact times:32-1)
Measuring range	See next page
Tensile strength U.T.S. range	374~2652 MPa
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 (see page 8)
Max. Workpiece Hardness	996HV(For Impact Devices D/DC/DL/D+15/C) 646HB(For Impact Device G)
Min. Radius of Workpiece (convex/concave)	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 layers	0.8mm
Power	Rechargeable NiMH Battery, 5×1.2V 600mAh
Continuous Working time	About 50h, (without printing and backlight)
Charging time	2~3.5 hours
Operating temperature	0~40°C
Relative humidity	±90%
Overall dimensions	268×86×50mm
Weight	530 g (including Impact Device and printer)

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Measuring range

Material	Hardness Scale	D/DC LD: 170-900	D+15 LD+15: 330-900	C LC: 350-960	DL LDL: 560-950	G LG: 200-750
Steel &	HRC	20-68.4	19.3-67.9	20-69.5	20.6-68.2	
cast steel	HRB	59.6-99.5			37-99.9	47.7-99.9
	HRA	59.1-858.8				
	HB	127-651	80-638	80-683	81-646	90-646
	HV	81-955	80-937	80-996	80-950	
	HS	32.5-99.5	33.3-99.3	31.8-102.1	30.6-96.8	
Stainless	HRB	46.5-101.7				
	HB	85-655				
	HV	85-802				
CWT/St	HRC	20.4-67.1	19.8-68.2	20.7-68.2		
	HV	80-898	80-935	100-941		
GC.Iron	HRC					
	HB	93-334				92-326
	HV					
NC.Iron	HRC					
	HB	131-387				127-364
	HV					
C.Alum	HB	19-164		23-210		32-168
	HRB	23.8-84.6		22.7-85.0		23.8-85.5
Brass	HB	40-173				
	HRB	13.5-95.3				
Bronze	HB	60-290				
Copper	HB	45-315				



Dataview for TH140



Standard delivery

- Main unit with removable printer 1
- Impact Device type D 1
- Test block with HLD value 1
- Charger 1
- Cleaning brush 1
- Table support for main unit 1
- TIME certificate 1
- Instruction manual 1
- Warranty card 1
- Carrying case 1

Optional accessories

- Printing paper
- Special Impact Devices
- Support rings
- Dataview and cable