

TIME Precision Measuring Instrument

Leeb Hardness Tester HLN-11A



Features:

- Wide measuring range, for all metallic materials.
- Direct display of hardness scales HRB, HRC, HV, HB, HS, HL
- Conversion to tensile strength (U.T.S.)
- Test at any angle, even upside down.
- Removable printer included.
- Six impact Devices are available for special applications.
- Large LC display showing all functions and parameters.
- Battery low indication
- power charging indication on the keyboard by LED.
- Fault indication in details. (E1-E5)

Technical Specification:-

Hardness scales	HL, HRC, HRB, HV, HB, HS
Measuring range	See table in page 7
Tolerance	
Tensile strength U.T.S range	374 ~ 1999 MPa

Optional Impact Device	D/DC/D + 15/G/C/DL (See page 8)			
Min. Radius of workpiece (concave / convex)	Rmin = 50mm (with support ring Rmin = 10mm)			
Impact Device	D/DC/DL	D + 5	C	G
Max. Workpiece Hardness	940/940/950HV	940HV	1000HV	650HV
Min. workpiece weight				
Min. workpiece thickness	5mm	5mm	1mm	10mm
Min. Thickness of hardened layers	0.8mm	0.8mm	0.2mm	1.2mm
Power	Rechargeable NiMH batteries 5 × 1.2V 600mAh			
Charging time	3 hours			
Continuous working time	About 50h (without printing and backlight)			
Operating temperature	0 ~ 40°C			
Humidity	90%			
Dimensions	268 × 86 × 50mm			
Weight	615g (including impact device and printer)			

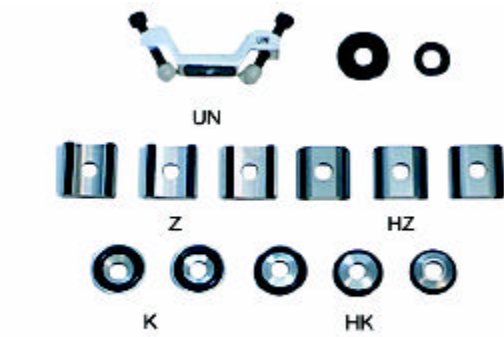
Standard Delivery

- Main unit 1
- Impact Device type D 1
- Test block HLD 1
- Charger 1
- Brush 1
- Table support for main unit 1
- TIME certificate 1
- Instruction manual 1
- Warranty card 1

Optional Accessory

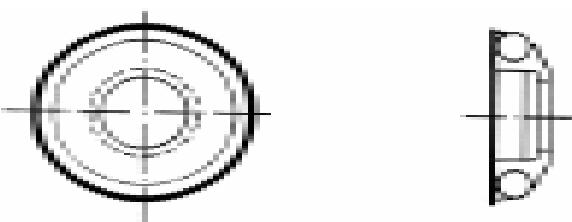
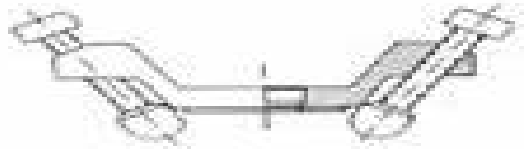
- Printing paper
- Special Impact Devices - ask for details.
- Support rings

Optional Support Rings: They are used for tested surface whose curvature radius is less than 30mm (D, DC, D + 15, C impact devices) or less than 50mm (G impact device)



Support Rings

No.	Type	Sketch of non-conventional supporting ring		Remarks
1.	Z10 - 15			For testing cylindrical outside surface R10 ~ R15
2.	Z14.5 - 30			For testing cylindrical out- side surface R14.5~R30
3.	Z25 - 50			For testing cylindrical outside surface R25~R50
4.	HZ11 - 13			For testing cylindrical outside surface R25~R13
5.	HZ12.5 - 17			For testing cylindrical in- side surface R12.5~17
6.	HZ16.5 - 30			For testing cylindrical in- side surface R16.5~R30
7.	K10 - 15			For testing spherical out- side surface SR10~SR15
8.	K14.5 - 30			For testing spherical outside

9.	HK 11 - 13		SR14.5~SR30 For testing spherical inside surface SR11~SR13
10.	HK 12.5 - 17		For testing spherical inside surface SR12.5~SR17
11.	HK 16.5 - 30		For testing spherical inside surface SR16.5~SR30
12.	UN		For testing cylindrical outside surface, radius adjustable R10 ~ 8

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