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TIME Precision Measuring Instrument

Leeb Hardness Tester TH170



Features:

- USB communication interface
- Automatic identification of impact test direction
- Memory of 270 average readings in 9 files
- Upper and lower limit setting
- Automatically switch off
- Backlight for convenient use in darkness
- AAA 1.5V battery
- Integrated calibration function

Technical Specification:-

Hardness scales	HLD, HRC, HRB, HV, HB, HS
Measuring range / materials	See table given below
Measuring direction	360°
Tolerance	± 6HLD (760 ± 30HLD)
Memory	270 average readings in 9 group files
Output	USB2.0
Surface Roughness of workpiece	= 1.6µm (Ra)
Min. radius of workpiece (convex / concave)	Rmin = 50mm (with support ring Rmin = 10mm)
Min. workpiece weight	2 ~ 5Kg on stable support 0.05 ~ 2Kg with compact coupling
Min. workpiece thickness with coupling	5mm
Min. Thickness of hardened layers	0.8 mm
Indentation depth	See table in page 8
Continuous working time	150 h (without backlight)
Power	AAA 1.5V batteries (2pcs)
Operating temperature	0 ~ 40°
Dimensions	155mm × 55mm × 25mm
Weight	166 g

Measuring Range:-

Materials	Hardness scale	Impact Device					
		D/DC	D + 15	C	G	E	DL
Steel and cast steel	HRC	17.9-68.5	19.3-67.9	20.0-69.5		22.4-70.7	20.6-68.2
	HRB	59.6-99.6			47.7-99.9		37.0-99.9
	HRA	59.1-85.8				61.7-88.0	
	HB	127-651	80-638	80-683	90-646	83-663	81-646
	HV	83-976	80-937	80-996		84-1042	80-950
	HS	32.2-99.5	33.3-99.3	31.8-102.1		35.8-102.6	30.6-96.8
Steel	HB	143-650					
CWT, ST	HRC	20.4-67.1	19.8-68.2	20.7-68.2		22.6-70.2	
	HV	80-898	80-935	100-941		82-1009	
Stainless steel	HRB	46.5-101.7					
	HB	85-655					
	HV	85-802					
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					

Standard Delivery

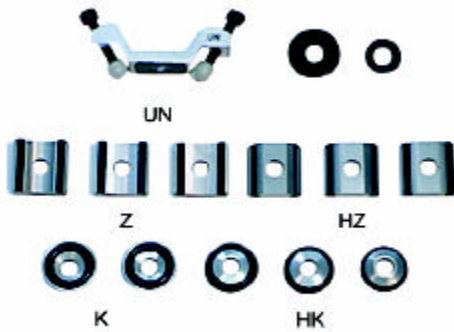
- Main unit 1
- Test block 1

- Battery AAA 1.5V 1
- Connecting cable 1
- TIME certificate 1
- Instruction manual 1
- Warranty card 1

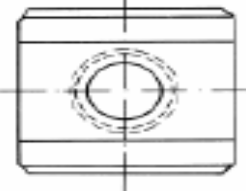

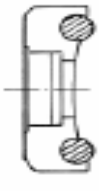
Optional Accessory

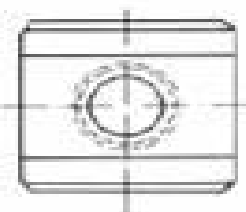
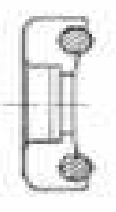
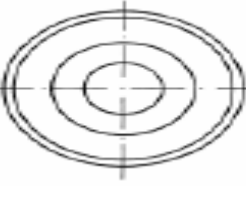

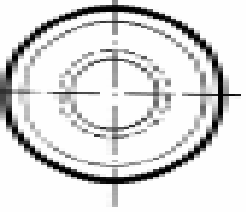
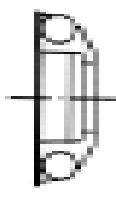
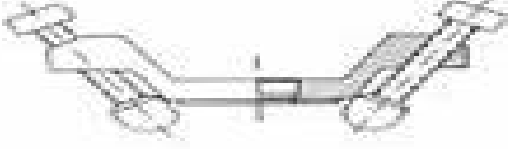
- Support rings

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 outside surface R14.5~R30
3.	Z25 - 50		For testing cylindrical outside

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 surface SR14.5~SR30
9.	HK 11 - 13		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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