

Leeb Hardness Tester Leeb120



Russell Technologies India Pvt. Ltd.

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Leeb Hardness Tester Leeb120

Functions & Features:

- On the basis of Leeb hardness measurement principle, can be used to detect a variety of metal materials.
- Hardness standards HL,HRB,HRC,HB,HV,HRA,HS all can be shown on the screen.
- Can calibrate HL,HR,HB directly, it's unique in China.
- Instantly showing the hardness measurement, and can convert 7 different hardness format freely.
- Can be configured to 8 different impact device, automatic identification device of impact type, can replace the impact without being re-calibrate.
- High brightness LED back-light, convenient in the dark.
- Low power consumption: Auto sleep, automatic shutdown function of saving energy.
- Ordinary alkaline battery, standby time 150 hours.

Measuring Materials:

- Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloys (brass), an alloy of copper and tin, copper (bronze), forged steel

Technical Specification

Model	Leeb120
Measuring Range	(170-960)HLD,(17.9-69.5)HRC,(19-683)HB,(80-1042)HV, (30.6-102.6)HS, (59.1-88)HRA, (13.5-101.7)HRB
Hardness parameter	HL, HRC,HRB, HS,HB,HV
Accuracy	± 6 HLD (HLD=760) / 6HLD (HLD=760)
Display	LCD with back-light
Memory	1250 groups
PC Connection	Available
Printer	No
Battery	2 AAA
Operating Temperature	-20°C~+60°C
Dimensions	129×68×25mm
Shell	Plastic
Impact Device Type	D,DC,DL,D+15,G,C,E
Weight	240g
Standard Delivery	Main unit,Impact Device type D,Operation manual, Small supporting ring,Cleaning brush, Calibration block,Certificate.
Software	PC software available on extra cost

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2.The allowable indication error of each hardness scale.

Hardness Value	Allowable Indication Error
HLD	6-10HLD
HRC	1.5HRC
HV	3%
HRA	1.5 HRA
HRB	1.5 HRB
HB	10 HB
HS	15 HS

3.Measurement range when different material and impact device.

Material	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
Forged steel	HB	143~650					
Alloy tool steel	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	
	HRA	60.7~92.6					
	HB	232~625					
Stainless steel	HRB	46.5~101.7					
	HB	85~655					
	HV	85~802					
Gray cast iron	HRC						
	HB	93~334			92~326		
	HV						
Ductile	HRC						
	HB	131~387			127~364		
	HV						
Cast aluminum alloys	HB	19~164		23~210	32~168		
	HRB	23.8~84.6		22.7~85.0	23.8~85.5		
	HV	83.2~648.2					
Copper-zinc alloy	HB	40~173					
	HRB	13.5~95.3					
Bronze (copper-aluminum/copper-tin alloys)	HB	60~290					
Wrought copper alloys	HB	45~315					

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