SHL-150 Portable Leeb Hardness Tester

SHL-150 portable Leeb hardness tester can directly measure Rockwell (HRC, HRB), Leeb (HL), Brinell (HB), Vickers (HV), Shore (HS) hardness values. Conforms to international standards and "Leeb hardness tester specifications ZBN71010-1990" promulgated by the Ministry of Machinery Industry, "Metallic hardness test method GB/T 17394-1998" promulgated by the State Bureau of Quality and Technical Supervision, and Leeb hardness tester standard JB/ T9378-2001 and other standards.

The SHL-150 can be equipped with 7 different impact devices to automatically identify the type of impact device without recalibration. Ultra-low power design, using high-performance lithium battery to achieve long work and standby time, more compact and flexible design increases the flexibility of use.

According to the principle of measuring the hardness of the Leeb, high-precision detection of various metal materials is possible. Support "Steel" material, when testing the "forged steel" sample with D/DC type impact device, it can directly read the HB value without manual check. It is convenient to switch to all hardness systems (HL, HB, HRB, HRC, HRA, HV, HS) and convert the hardness measurement values in parallel.

	Full English display, menu type operation, simple and convenient operation. The white backlight shows that it is convenient for use in dark environment.
	With USB interface, a variety of communication methods meet the needs of different users.
n	A main engine can be equipped with 7 different impact devices. It does not need to recalibrate when replacing, and automatically identify the type of impact device.
	It can store 48~350 groups (impact times 32~1) single measurement value, average value, date of measurement, direction of impact, frequency, material, hardness system and so on.
	The upper and lower limits of hardness values can be set in advance, automatic alarm is out of range, and it is convenient for users to batch test.
	It has the function of calibrating the value software.
	Built in high-performance lithium battery and charging control circuit, with ultra long working and standby time. Liquid crystal display battery logo, real-time display of the remaining electricity.
	According to the requirements of users, it can be equipped with microcomputer software, which is more powerful and can meet the higher requirements of quality assurance activities and management.

Technical parameters

Indication error and repeatability

Item	Impact device type	Hardness value of standard Leeb hardness block	Indication error	Indicator repeatability
1	D	760±30HLD 530±40HLD	±5 HLD ±8 HLD	5 HLD 8 HLD
2	DC	760±30HLDC 530±40HLDC	±5 HLDC ±8 HLDC	5 HLD 8 HLD
3	DL	878±30HLDL 736±40HLDL	±10 HLDL	10 HLDL
4	D+15	766±30HLD+15 544±40HLD+15	±10 HLD+12	10 HLD+12
5	G	590±40HLG 500±40HLG	±10 HLG	10 HLG
6	E	725±30HLE 508±40HLE	±10 HLE	10 HLE
7	C	822±30HLC 590±40HLC	±10 HLC	10 HLC

Standard configuration

Main part	1
D type impact device	1
Small support ring	1
Nylon Brush (I)	1
High value Leeb hardness block	1
Charger	1
Communication cable	1

General parameters

Measuring range	HLD (170-960)HLD
Measurement direction	360°
Hardness system	Leeb, Brinell, Rockwell A, Rockwell B, Rockwell C, Vickers, Shore
Display	LCD, 128×64 graphics dot matrix LCD
Data storage	Thermal print head, quiet, ready to print measurement results
Limit setting range	Same as measurement range
Charger	5VDC, 220VAC
Charging time	2 to 3.5 hours
Battery	3.7V, (1400mAh) Lithium Battery
Ambient temperature	0～40℃
Storage temperature	-25 to 70℃
Working hours	About 100 hours (without backlight)
Communication interface	USB
Dimensions	179×77×35mm (main part)
Weight	About 175g (main part)