

**Hand Held Leeb's Metal Hardness Tester Devices , RHL80 steel hardness tester
 Unique Design Portable Hand Held Leeb's Metal Hardness Testing Machine RHL80 Equipped
 with 7 Types of Impact Devices**

The **Unique design portable metal hardness test** of the portable hardness tester RHL80 convinces with precise measurements on most metals. It offers the same features as the common hardness test but also allows user defined hardness conversions.

Customary curve for a specific testing material

- Can test multi-metal material, high accurate and stable.
- Easy converts to all common hardness scales (HV, HB, HRC HRB, HRA, HS).
- Upper and lower limit of hardness can be preset;
- When the tested value exceeds the limits, alarm will send out automatically to make convenient for the requirements of batch measurements.
- Equipped with 7 types of impact devices which need not to be recalibrated when changing them, the system can identify the type of impact device automatically.
- LCD display of 128×32matrix is used. menu operating is easy and convenient.
- Back light display has been used to make convenient for the use in poor light.
- Large memory of up to 1000 sets of data and time
- Rechargeable Li-Ion battery with no memorability
- With RS232 interface, multiple communication modes are adopted to meet customized requirements of various users.
- Power continuous working period: Approx 100 h (no back light on).
- Software of PC can be installed according to the requirements of user, the function will be more powerful to satisfy the more strict demands of quality control and management.

Technical capabilities

- Measuring range: HLD(170~960)HRC(17.9~68.5)HV(80~976)HS(30~100)HRA(59~85)HRB(59.6~100)HB(80~651)
- Measuring direction: 360°
- Hardness scale: HL, HB, HRB, HRC, HRA, HV, HS
- Display: LCD, 128×32 matrixLCD
- Data memory: 1000 groups (impact times: 10~1)
- Range of upper and lower limit: the same as measuring rang
- Working voltage: 3.7V Rechargeable Li-Ion battery
- Continuous working period: approx. 100 h (no back light on)
- Communication interface: RS232
- Dimension:145X62X30mm
- Weightapprox: 0.5kg

Testing Range of portable leeb hardness tester RHL80:

Material	Hardness method	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	80~651	80~638	80~683	90~646	83~663	81~646

	HV	80~976	80~ 937	80~ 996		84~ 1042	80~ 950
	HS	30.0~ 99.5	33.3~ 99.3	31.8~ 102.1		35.8~ 102.6	30.6~ 96.8
Hammered steel	HB	143~650					
Cold work 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	
Stainless steel	HRB	46.5~ 101.7					
	HB	85~655					
	HV	85~802					
Gray cast iron	HRC						
	HB	93~334			92~ 326		
	HV						
Nodular cast iron	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		
Brass(copper-zinc alloys)	HB	40~173					
	HRB	13.5~ 95.3					
Bronze (copper-aluminum/copper-tin alloys)	HB	60~290					
Wrought copper alloys	HB	45~315					

Application Ranges:

- Ideal for production level testing.
- Ideal for tooling cores and cavity.
- Best suited for on-site testing for heavy big or already installed parts.
- Handy for difficult to access or confined test locations
- Easy to use and accurate on curved test surfaces(R>10mm)
- Good for all metal.

Application areas:

- Automotive and transportation
- Machinery and power plants
- Petrochemical and refineries

- Aerospace and shipyard
- Metal constructions
- Testing services and laboratories

Ordering information:

No	Item	Num	
1	RHL80 Main unit	1	
2	Small supporting ring	1	
3	Nylon brush (A)	1	
4	High value Leeb test block	1	
5	Communication cable	1	
6	Instruction Manual	1	
7	Instrument Case	1	
8			
9			
10			
11	Box Of instrument	1	
12	Printer		Optional
13	Printer cable		Optional

