

# PHT-330 Leeb Hardness Tester

## Main application:

Use for testing die cavity of molds, bearings and other parts, failure analysis of pressure vessel, steam generator and other equipment, heavy work piece, the installed machinery and permanently assembled parts, testing surface of a small hollow space, material identification in the warehouse of metallic materials, rapid testing in large range and multi-measuring areas for large-scale work piece.

## Feature:

1. Support "forged steel (Steel)" material, when using the D/DC impact device test "forged" sample, can read HB value directly, without the need for manual checking table.
2. Wide measuring range. It can measure the hardness of all metallic materials. Direct display of hardness scales HRA, HRB, HRC, HV, HS, HL, HB and three types of strength values immediately.
3. Seven impact devices are available for special application. Automatically identify the type of impact devices.
4. Upper and lower limit can be preset. It will alarm automatically when the result value exceeding the limit.
5. Battery information indicates the rest capacity of the battery and the charge status.
6. User calibration function.
7. USB port with the PC humanity multi-functions data proceeding software.
8. Original imported high speed thermal printer support the immediate printing function. It can save data permanently.
9. Auto power off to save energy.
10. Industrialized housing design, sturdy, compact, portable, high reliability, suitable for harsh operating environment, vibration, shock and electromagnetic interference.
11. Excellent after-sale service system for high quality products---two years' guarantee and all life maintenance. Easy to buy and comfortable to use.



## Technical specifications:

Measuring range	HLD(170-960), HB (19-683), HV (80-1042), HS (30.6-102.6), HRA(59.1-88), HRB (13.5-101.7), HRC (17.9-69.5)
Measuring direction	360°
Indication Error	±6HLD (D impact device)
Hardness Scale	HRA , HRB, HRC, HV, HS, HL, HB
Display	dot matrix LCD, 128×64 dots, with printer
Data memory	600 groups max. (relative to impact times 32~1)
Printing paper	(57.5±0.5) mm, diameter is 30mm
Battery pack	6V NI-MH Battery charger: 9V/500mA.
Continuous working period	about 200hours (With backlight off, no printing)
Communication interface	USB2.0
Dimensions	210 x 85 x 45mm
Weight	about 0.6kg pack weight: 5.2kg

## Standard accessories:

No.	Item	Q'ty	No.	Item	Q'ty
1	Main Unit	1 pc	7	Paper for printing	1 pc
2	D type impact device	1 pc	8	Manual	1 pc
3	Standard test block	1 pc	9	Warranty card	1 pc
4	Cleaning brush (I)	1 pc	10	Data Pro software	1 pc
5	Small support ring	1 pc	11	Communication cable	1 pc
6	Battery Charger	1 pc	12	Instrument case	1 pc

# PHT-350 Leeb Hardness Tester( colour screen)

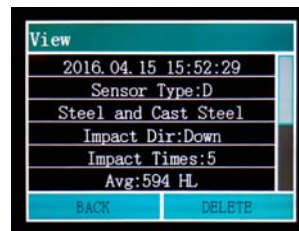
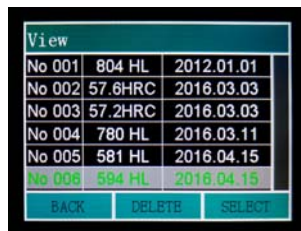
## Main application:

It is suitable for Steel and cast steel, alloy steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloy (brass), copper alloy (bronze), tin pure copper, forging steel etc.

## Feature:

the PHT-350 hardness tester is an innovative improvement about hardness measurement mechanism and circuit performance based on leeb hardness measuring instrument product. Portable, flexible replacement and suitable for the job site, field operations

- Color screen, hardness scale dual display and optional.
- Add function - custom material
- Built-in high speed thermal printer, support immediately printing function. It can save data permanently.
- Support probe hot-plugging.




## Technical specifications:

Measuring range	HLD (170-960), HB (19-683), HV (80-1042), HS (30.6-110), HRA(59.1-88), HRB (13.5-101.7), HRC (17.9-69.5)
Measuring direction	360°
Indication Error	±6HLD (D impact device)
Hardness Scale	HRA , HRB, HRC, HV, HS, HL, HB
Display	320*240mm Color LCD, two hardness scale dual-display. with Bulit-in Printer
Data memory	600 groups max.(relative to impact times 32~1)
Printing paper	width is (57.5±0.5)mm, diameter is 30mm
Battery pack	7.4V Li-battery
Continuous working period	about 200hours (With backlight off, no printing)
Communication interface	USB2.0
Dimensions	210 x 85 x 45mm
Weight	about 0.6kg pack weight: 5.2kg

## Standard accessories:

No.	Item	Q'ty	No.	Item	Q'ty
1	PHT350 Main body	1 pc	7	Paper for printing	1pc
2	D type impact device	1 pc	8	Manual	1pc
3	Standard test block	1 pc	9	Warranty card	1 pc
4	Cleaning brush	1 pc	10	Data Pro software	1 pc
5	Small supporting ring	1 pc	11	Communication cable	1 pc
6	Battery charger	1 pc	12	Instrument box	1 pc

## Impact probe assembly:

					
Type of Impact Device	DC(D)/DL	C	D+15	E	G
Application	DC type used to hole or inside face of cylinder, DL type used to elongated narrow slot or hole, D type for routine measurements.	Suitable for measuring surface of the trench or concave.	Suitable for measuring thin workpiece and harden surface.	Suitable for heavy or rough castings and forgings.	Suitable high hardness material.
Impacting energy	11mJ	2.7mJ	11mJ	11mJ	90mJ
Mass of impact body	5.5g/7.2g	3.0g	7.8g	5.5g	20.0g
Test tip hardness:	1600HV	1600HV	1600HV	5000HV	1600HV
Dia. Test tip:	3mm	3mm	3mm	3mm	5mm
Material of test tip:	Tungsten carbide	Tungsten carbide	Tungsten carbide	synthetic diamond	Tungsten carbide
Impact device diameter:	20mm	20mm	20mm	20mm	30mm
Impact device length:	86(147)/75mm	141mm	162mm	155mm	254mm
Impact device weight:	50g	75g	80g	80g	250g
Max. hardness of sample	940HV	1000HV	940HV	1200HV	650HB
roughness of sample	Ra 1.6μm	Ra 0.4μm	Ra 1.6μm	Ra 1.6μm	Ra 6.3μm
Min. weight of sample:	>5kg	>1.5kg	>5kg	>5kg	>15kg
Measure directly with stand	2~5kg	0.5~1.5kg	2~5kg	2~5kg	5~15kg
Need coupling tightly	0.05~2kg	0.02~0.5kg	0.05~2kg	0.05~2kg	0.5~5kg
Min. thickness of sample	5mm	1mm	5mm	5mm	10mm
layer thickness hardening:	≥0.8mm	≥0.2mm	≥0.8mm	≥0.8mm	≥1.2mm

### Indentation size:

Type of Impact Device		DC(D)/DL	C	D+15	E	G
Hardness 300HV	Indentation diameter:	0.54mm	0.54mm	0.38mm	1.03mm	0.54mm
	Depth of indentation:	24μm	24μm	12μm	53μm	24μm
Hardness 600HV	Indentation diameter:	0.54mm	0.54mm	0.32mm	0.90mm	0.54mm
	Depth of indentation	17μm	17μm	8μm	41μm	17μm
Hardness 800HV	Indentation diameter:	0.35mm	0.35mm	0.35mm	--	0.35mm
	Depth of indentation	10μm	10μm	7μm	--	10μm



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