

HM-500 Portable Hardness Tester



TECHNICAL DATA

Measuring Materials	Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloys (brass), copper and tin alloy, copper (bronze), forged steel
Measuring Range	HLD(170~960), HRC(17.9~69.5), HB(19~683), HV(80~1042), HS(30.6~102.6), HRA(59.1~88), HRB(13.5~101.7)
Indication Error	±6HLD (D impact device)
Measuring Direction	360°
Hardness Scale	HL, HB, HRB, HRC, HRA, HV, HS
Display	320x240 true color TFT screen
Data Memory	Max 600 groups (relative to impact times 1~32 adjustable)
Power	Rechargeable li-battery
Working Temperature	-20°C~55°C
Size	210x85x45mm
Weight	0.6kg

MAIN FEATURE

- *Built-in printer, can print testing results any time;
- *Window menu style, true color display;
- *Two hardness scale dual-display in same time;
- *Add customized material function, no limitation of measured materials;
- *Test at any angle, even upside down, narrow space also available to use;
- *Has a starting value calibration function, ensure the data is applicable and accurate in different codes and standards;
- *Seven impact devices are available for special application. Automatically identify the type of impact devices;
- *User calibration function;
- *Battery information indicates the rest capacity of the battery and the charge status;
- *Has the function of automatic alarm. Pre-set tolerance limit, beyond the range has automatic alarm, especially suitable for batch testing;
- *Menu operation, information rich, intuitive, the realization of arbitrary switching material and hardness of system's key type, simple and convenient;

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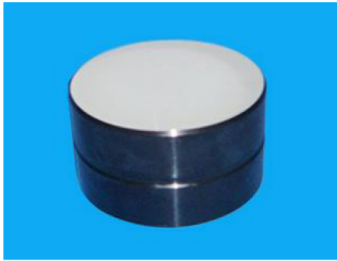
*Excellent after-sale service system for high quality products-two years warranty and all life maintenance. Easy to operate;
 *Support OEM Service, high price performance.

STANDARD DELIVERY

ITEM	QTY
HM 500	1 PC
Standard D Impact Device	1 PC
Standard Calibration Block	1 PC
Standard Support Ring	1 PC
Brush	1 PC
USB Cable	1 PC
PC Software	1 PC
User Manual	1 PC
Instrument Case	1 PC
Warranty	2 Years

RELATED OPTIONAL ITEMS

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



Standard Hardness Calibration Block

With high accuracy standard hardness value, use for calibration of leeb hardness tester.



Support Ring for Hardness Tester

Suitable for difference measure situation, 12 pcs/ set



Connecting Cable for Hardness Tester and Probe



Thermal Printing Paper

Suitable for mini thermal printer and Kaidas's tester with built-in printer

Packing: 10pcs/bag