

# UITRASONIC HARDNESS TESTER PART NO. 9641-100

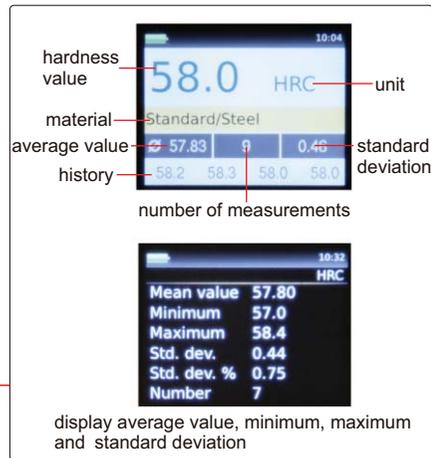
**INSIZE PLUS**  
MADE IN GERMANY

ATTENTION: HARDNESS BLOCKS  
FOR CALIBRATION ARE OPTIONAL

ATTENTION: NEED TO CONFIRM IF THE  
WORKPIECES ARE SUITABLE BEFORE PURCHASE

DATA  
OUTPUT

INSPECTION  
CERTIFICATE



10N probe (optional)



98N probe (optional)

- Small test indentation
- Test force and time are not affected by the operator
- Quick testing, only 2 seconds
- Memory of 100000 test results for browsing, printing and output

#### Application:

1. For all kinds of metals
2. Test surface hardening layers (carburized, nitriding, high frequency hardened, etc.)
3. Suitable for arc and conical surface
4. Suitable for small or light workpieces
5. Test large workpieces at any direction



measure the narrow area



flat base (optional), for measuring flat surfaces



printer (optional)



V-type base (optional), for measuring cylinder surfaces



## SPECIFICATION OF MAIN UNIT

Hardness scale	HV, HRC, HRB, HB, N/mm <sup>2</sup>	
Range	10~3000HV, 20.3~68HRC, 41~99.5HRB 10~620HB, 255~2180N/mm <sup>2</sup>	
Resolution	1HV, 0.1HRC, 0.1HRB, 1HB, 1N/mm <sup>2</sup>	
Accuracy (HV)	±2%	
Repeatability	HV	±1%
	HRC	±0.5HRC
	HRB	±1.2HRB
	HB	±1%
Data output	USB	
Operating temperature	32°F~122°F	
Power supply	built-in rechargeable battery	
Dimension of main unit	5.31×3.15×.91"	
Dimension of probe	6.89×.77" DIA	
Weight of main unit	1.12lb	

## OPTIONAL ACCESSORY

10N probe	9641-100-10
98N probe	9641-100-98
Flat base	9641-100-FLAT
V-type base	9641-100-VANVIL
Printer	9641-100-PRINTER
Stand	9641-100-STAND
Hardness block HRC20~30	HDT-B-HRCU1
Hardness block HRC35~55	HDT-B-HRCU2
Hardness block HRC60~70	HDT-B-HRCU3
Hardness block 200~300HV5	HDT-B-HV5U1
Hardness block 400~500HV5	HDT-B-HV5U2
Hardness block 700~750HV5	HDT-B-HV5U3
Hardness block 90~200HBW10/1000	HDT-B-HB10U1
Hardness block 200~300HBW10/3000	HDT-B-HB10U2
Hardness block 400~500HBW10/3000	HDT-B-HB10U3

## STANDARD DELIVERY

Main unit	1 pc
49N probe	1 pc
Probe connection wire	1 pc
Power adapter	1 pc

## SPECIFICATION OF PROBE

Type	49N probe (included)	10N probe (optional)	98N probe (optional)**
Test force	49N	10N (small force)	98N (large force)
Application	general use	small or light workpieces and hardened layers	small forgings, weldseam testing, heat affected zone
Maximum roughness of workpieces (Ra)	32μin	20μin	40μin
Minimum weight of workpieces	.66lb*	.66lb*	.66lb*
Minimum thickness of workpieces	.20"*	.20"*	.20"*
Minimum radius of workpieces	.12"	.12"	.12"
Minimum thickness of surface hardening layer or plating	10×depth of indentation	10×depth of indentation	10×depth of indentation
Minimum test interval	The indentation distance is at least 1mm (harder material) or 3mm (softer material), and the indentation distance is at least 5mm from the edge of the workpiece		
Dimension and weight of probe	6.89×.77" DIA, 1.12lb	6.89×.77" DIA, 1.12lb	6.89×.77" DIA, 1.12lb

\* If the weight or thickness of workpieces is less than required, the workpieces should be fixed or coupled on solid support.

\*\* For larger measuring force, it is recommended to use it with the stand.