

# ULTRASONIC HARDNESS TESTER CODE ISHU-330

ATTENTION: HARDNESS BLOCKS FOR CALIBRATION ARE OPTIONAL

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

**INSPECTION  
CERTIFICATE**

DATA  
OUTPUT



software CD  
(included)

### Application:

1. For steel material
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
6. Suitable for rough surfaces



test flat surfaces  
(with the cover)



test cylinder surfaces  
(use V-groove  
on the cover)



cover

- Small test indentation
- Test force and time are not affected by the operator
- Quick testing, only 2 seconds
- Average and statistics test modes
- Memory of 1024 test results for browsing and output
- Automatic power off
- Anti-dust and waterproof

### SPECIFICATION OF MAIN UNIT

<b>Hardness scale</b>		HV, HB, HRC, MPa
<b>Range</b>		100~940HV, 80~650HB, 20~70HRC, 370~1740MPa
<b>Resolution</b>		1HV, 1HB, 0.1HRC, 1MPa
<b>Accuracy</b>	HB	±3%
	HV	±3%
	HRC	±1.5%
<b>Data output</b>		USB
<b>Operating temperature</b>		-20°C ~ +40°C
<b>Power supply</b>		built-in rechargeable battery
<b>Dimension of main unit</b>		120×60×25mm
<b>Weight of main unit</b>		200g

### STANDARD DELIVERY

<b>Main unit</b>	1 pc
<b>Probe A</b>	1 pc
<b>Rechargeable battery</b>	2 pcs
<b>Charger</b>	1 pc
<b>Software and USB cable</b>	1 pc

### SPECIFICATION OF PROBE

Type	A (standard)	B (optional)
<b>Test force</b>	50N	10N (small force)
<b>Application</b>	general use	plating
<b>Maximum roughness of workpieces (Ra)</b>	2.5µm	1.5µm
<b>Minimum weight of workpieces (direct measurement)</b>	0.1kg *	0.1kg *
<b>Minimum thickness of workpieces (direct measurement)</b>	1mm *	1mm *
<b>Minimum radius of workpieces</b>	5mm	5mm
<b>Minimum thickness of surface hardening layer or plating</b>	0.1mm	0.03mm
<b>Minimum test area</b>	Ø1mm	Ø1mm
<b>Dimension and weight of probe</b>	140×Ø37mm, 271g	145×Ø37mm, 271g

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

	steel	alloy steel	stainless steel		
	ST	AST	SST		
<b>HRC</b>	▬				
<b>HB</b>	▬				
<b>HV</b>	▬				
<b>U1</b>					
	<b>BACK</b>			<b>SELECT</b>	

user scale

select the material and scale, use the corresponding standard hardness blocks or workpieces for calibration (calibration of HRC, HB and HV for steel are already made, calibration is needed before use other materials and scales)

### OPTIONAL ACCESSORY

<b>Probe B</b>	ISHU-460-B
<b>Couplant</b>	ISH-COULPLANT
<b>Hardness block HRC20~30</b>	HDT-B-HRC1
<b>Hardness block HRC35~55</b>	HDT-B-HRC2
<b>Hardness block HRC60~70</b>	HDT-B-HRC3
<b>Hardness block 200~300HV5</b>	HDT-B-HV5B
<b>Hardness block 400~500HV5</b>	HDT-B-HV5D
<b>Hardness block 700~750HV5</b>	HDT-B-HV5G
<b>Hardness block 90~200HBW10/1000</b>	HDT-B-HB10C1
<b>Hardness block 200~300HBW10/3000</b>	HDT-B-HB10A2
<b>Hardness block 400~500HBW10/3000</b>	HDT-B-HB10A4