ULTRASONIC/LEEB HARDNESS TESTER CODE ISHU-340











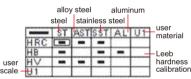
main unit (included)

ultrasonic probe A (included)

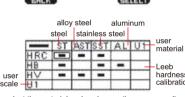
Leeb probe type D (included)

- Automaitc detect the ultrasonic probe or Leeb probe type D
- Average and statistics test modes
- Memory of 1024 test results for browsing and output
- Automatic power off
- Anti-dust and waterproof





select the material and scale, use the corresponding standard hardness blocks or workpieces for calibration ("
"" means the calibration is already made, calibration is needed before using other materials and scales)





Ultrasonic hardness tester

Application and features:

- 1. For steel, non-ferrous metal and alloy
- 2. Test surface hardening layers (carburized, nitriding, high frequency hardened, etc.) and plating (like chrome plating)
- 3. Suitable for thin wall or edge of workpieces
- 4. Suitable for small areas like arc, conical surface and other complex shapes
- 5. Suitable for small or light workpieces
- 6. Suitable for narrow spaces, like grooves and blind holes
- 7. Test large workpieces at any direction
- 8. Suitable for rough surfaces9. Small test indentation
- 10. Test force and time are not affected by the operator
- 11. Quick test, only 2 seconds



Application and features:

- Suitable for large and heavy workpieces, such as casting parts, molds, machine guides, etc.

 2. For steel, non-ferrous metal and alloy
- 3. Based on Leeb (HLD), converted to Rockwell (HRC), Vickers (HV), Brinell (HB) and strength (Mpa)
- 4. Impact direction is adjustable
- 5. According to ASTM A956







ultrasonic probe to test cylinder



ultrasonic probe to test narrow areas (remove the cover)

APPLICATION OF ULTRASONIC HARDNESS TESTER AND LEEB HARDNESS TESTER

Application	Ultrasonic	Leeb
Solid parts, molds, etc.	well suited	especially suited
Coarse grain materials, cast iron parts, etc.	not recommended	especially suited
Steel and aluminum cast alloys	suited sometimes	especially suited
HAZ with welds	especially suited	not recommended
Tubes: wall thickness>10 mm	especially suited	especially suited
Tubes: wall thickness<10 mm	especially suited	not recommended
Rough surfaces	not recommended	well suited
Thin workpieces	especially suited	not recommended
Difficult to access positions, like turbine blades, gears, etc.	especially suited	well suited

SPECIFICATION OF MAIN UNIT

Hardness scale		HV, HB, HRC, HL, Mpa	
Resolution		1HV, 1HB, 0.1HRC, 1HL, 1Mpa	
Accuracy of ultrasonic test	НВ	±10HB	
	HV	±15HV	
	HRC	±2HRC	
Accuracy of Leeb test	HL	±6HL	
Data output		USB	
Operating temperature -2		-20°C ~ +40°C	
Power supply		built-in rechargeable battery	
Dimension of main unit 120×60×25mm		120×60×25mm	
Weight of main unit 200g		200g	

STANDARD DELIVERY

Main unit	1pc
Ultrasonic probe A	1pc
Leeb probe type D	1pc
Hardness test block D	1pc
Rechargeable battery	2pcs
Charger	1pc
USB cable and software	1pc

OPTIONAL ACCESSORY

Ultrasonic probe B	ISHU-460-B
Leeb support rings	see details
Couplant	ISH-COUPLANT

SPECIFICATION OF PROBE

software (included), output data, make and print reports

SPECIFICATION OF PROBE			
Туре	ultasonic A (standard)	ultasonic B (optional)	Leeb type D (standard)
Test force	50N	10N (small force)	-
Application	general use	plating	large and heavy workpieces
Maximum roughness of workpiece (Ra)	2.5µm	1.5µm	1.6µm
Minimum weight of workpiece (direct measurement)	0.1kg *	0.1kg *	5kg*
Minimum thickness of workpiece (direct measurement)	1mm *	1mm *	5mm *
Minimum radius of workpiece	5mm	5mm	30mm
Minimum thickness of surface hardening layer or plating	0.1mm	0.03mm	-
Minimum test area	Ø1mm	Ø1mm	Ø20mm
Dimension and weight of probe	140ר37mm, 271g	145ר37mm, 271g	148ר20mm, 100g

^{*}If the weight or thickness of workpiece is less than required, the workpiece should be fixed or coupled on solid support.