

Ultrasonic Hardness Tester



TM-U3

TM-U3 ultrasonic hardness tester can nondestructively measure the metals and alloys with a minimum thickness of 3 mm. It can measure strip/plate workpiece, mold hardened

layer, blade hardened layer, tooth surface hardened layer, flange edge, wheel, turbine rotor, thin plate, shaft and pipe, container, knife edge, welding part, etc.



Product Details

- Nondestructive hardness tester for testing hardened layer and thin workpieces
- 3.5-inch color LCD screen
- It indicates the battery status and alarms in low battery
- Conversion of common hardness sales (HV, HB, HRC)
- Hardness value calibration and delete calibration
- Select the tested material, mainly steel and cast steel. After calibration with the standard test block, it can measure alloy tool steel, special cast iron and non-ferrous metals
- Large memory: built-in 8G SD card.
- Free measurement in all directions, no compensation is needed.
- It can display the maximum value, minimum value, average value, standard deviation, measurement times, previous measurement values, etc.
- Upper/lower limits setting and alarm when out of the limits
- Rechargeable lithium ion battery, continuous working time is more than 30 hours
- Portable stand to enhance the measurement accuracy

SPECIFICATION

Model	TM-U3
Loading force	10N
Measuring range	80~1042HV; 100-450HB; 20-70HRC
Measuring accuracy	±4%(<500HV)
	±5%(500HV~800HV)
	±6%(>800HV)
Repeatability	8%(<250HV); 6%(=250HV)
Indenter	vickers diamond indenter
Measuring direction	Support 360°
Hardness scale	HV, HB, HRC
Operating environment	Temperature:-10? ~50? ;
	humidity: 30%~80% R.H
Dimensions (mm)	170x75x40
Weight (g)	500

Standard Delivery

Main unit
10N manual probe
Standard test block
V-shape base
Probe cable
Charger
TMTeck certificate
Warranty card
Instruction manual

Optional Accessory

operation stand



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Operation Stand

TA-U3 for UCI Hardness Tester



Product Details

TA-U3 operation stand is one of the important accessories for TM-U3 ultrasonic hardness tester. It can easily adjust the height of the ultrasonic hardness tester probe to adapt to different sizes of tested workpieces. When the ultrasonic hardness tester is operated by hand, it has higher requirements for the operator, and it is necessary to master the correct operation method to obtain the accurate measurement value. The use of this operation stand can avoid measurement errors caused by human factors and greatly improve the stability of the measured value of the ultrasonic hardness tester. Therefore, it is advised to use the ultrasonic hardness tester with this portable stand.

Standard Delivery

Operation stand 1
Clamping sleeve 1

Lifting height (mm)	180
Dimensions (mm)	300x200x415
Weight (kg)	9.4

