Ultrasonic Hardness Tester

Description

Ultrasonic hardness tester 447-9392 is a NDT durometer due to the contact indention is too small to observe, it is one of the excellent solution to test hardness of finished products, such as, the mold, gear, shaft, rod, screw, rails, etc.

- Very compact size with integrated probe.
- One instrument two applications—Support ultrasonic probe and Leeb impact device.
- Metal shell—Metallic texture, shield electromagnetic interference effectively, improve instrument stability.
- Color screen display—Display the current measurement value, accumulativemeasurement value, Max, Min and Ave value.
- Bluetooth transferring—Support wireless Bluetooth print and data transferring.
- Mass storage—Save 1000 groups data.
- Calibration access—Save 20 groups calibration data without doing calibration for the same material over and over.



Standard Delivery

Product Name	*Ultrasonic hardness tester*
Art No.	*447-9392*
Measuring range	*HV:50~1599;HRC:20~68 HB:76~650;HRB:41~105;HLD:170~960*
Resolution	*0.1HR,1HV,1HB,1HLD,0.1HS*
Measuring accuracy	*HV:±3%HV ; HRC:±1.5HRC ; HB:±3%HB ; HL:±8HL*
Ultrasonic probe	*Standard delivery:2Kgf (optional manual 1Kgf,5Kgf,10Kgf, motorized 0.3Kgf,0.5Kgf,0.8Kfg and 1Kgf)*
Impact devices	*Standard delivery:D (optional DC,DL,D+15,C,G*
Hardness scales	*Vickers(HV);Rockwell C(HRC); Rockwell A(HRA);Rockwell B(HRB);Brinell(HB)*
Display	*Measurement value,Max,Min,Ave,Sing mode Batch mode,etc*
Data storage	*1000 group test results and 20 group calibration data*
Data transfer	*Bluetooth*
Continuous Working Period	*10h(turn off the backlight)*
Working Environment	*Temperature:-10℃ ~50℃ Humidity:30%~80%R.H.*
Battery Voltage	*4.2V*
Charge Mode	*USB*
Dimension	*165x85x22mm*
Weight	*≤500g(probe not included)*

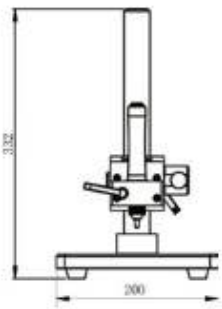
Specification

Product Name	
Instrument Main Body	*1pc*
2Kg Manual probe	*1pc*
Impact devices type D	*1pc*
Rockwell hardness block	*1pc*
Leeb hardness block	*1pc*
Probe cable	*1pc*
Accessories Box	*1pc*
USB Cable	*1pc*
Operation Manual	*1pc*

Testing Stand For Manual Probe

Testing Stand	*447-9392-F15*
Material	*Stainless Steel*
Weight	*8.8Kg*
Dimension(LxWxH)	*200x200x332mm*





Motorized Probe Feature

- Introduced latest ultrasonic sensor technology
- Obtain accurate hardness value without auxiliary devices
- Excellent human engineering design easy to hold
- Micro indentation,no destructive for specimen
- Motorized control,one key fast measuring
- Eliminate hand shake error by manual probe,higher accuracy and repeatability
- More suitable for thin pieces,coating layer hardness



Art No.	447-9392-003	447-9392-005	447-9392-008	447-9392-010
Remark	Optional	Standard	Optional	Optional
Loading force	3N	5N	8N	10N
Diameter	46mm	46mm	46mm	46mm
Length	200mm	200mm	200mm	200mm
Oscillating Rod Diameter	3.7mm	3.7mm	3.7mm	3.7mm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm



Measuring hardness of nut with Standard Probe Protector



Measuring the hardness of a cylinder with the samll cylindrical support ring

Manual Probe Feature

- Introduced latest ultrasonic sensor technology
- Obtain accurate hardness value without auxiliary devices
- Support 360° quick measuring
- Excellent human engineering design easy to hold
- Suitable dimension and measuring for probe is convenient to control
- Quick and accurate measuring for edge and fixed position of specimen
- Micro indentation,Non-Destructive for specimen

Art No.	447-9392-003	447-9392-005	447-9392-008	447-9392-010
Remark	Optional	Standard	Optional	Optional
Loading force	10N	20N	50N	98N
Diameter	22mm	22mm	22mm	22mm
Length	154mm	154mm	154mm	154mm
Oscillating Rod Diameter	2.4mm	2.4mm	3mm	3mm
Roughness of measuring surface	Ra < 3.2μm	Ra < 5μm	Ra < 10μm	Ra < 15μm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm



			
Plan Support Ring	Small Cylinder Support Ring	Big Cylinder Support Ring	Standard Probe Protector
447-9392-F14	447-9392-F12	447-9392-F13	447-9392-F11
Plan Test Piece	Diameter 8~22mm Test Piece	Diameter 16~80mm Test Piece	-

Optional Accessories

Product Name	Art No.
1Kg Manual probe	447-9392-100
2Kg Manual probe	447-9392-200
5Kg Manual probe	447-9392-500
10Kg Manual probe	447-9392-1000
0.3Kg Motorized probe	447-9392-003
0.5Kg Motorized probe	447-9392-005
0.8Kg Motorized probe	447-9392-008
1Kg Motorized probe	447-9392-010
Rockwell hardness block HRC	447-9392-F01
Vickers hardness block HV	447-9392-F02
Mini Printer	447-9392-F03
Standard Probe Protector	447-9392-F11
Small Cylinder Support Ring	447-9392-F12
Big Cylinder Support Ring	447-9392-F13
Plan Support Ring	447-9392-F14
Testing Stand	447-9392-F15