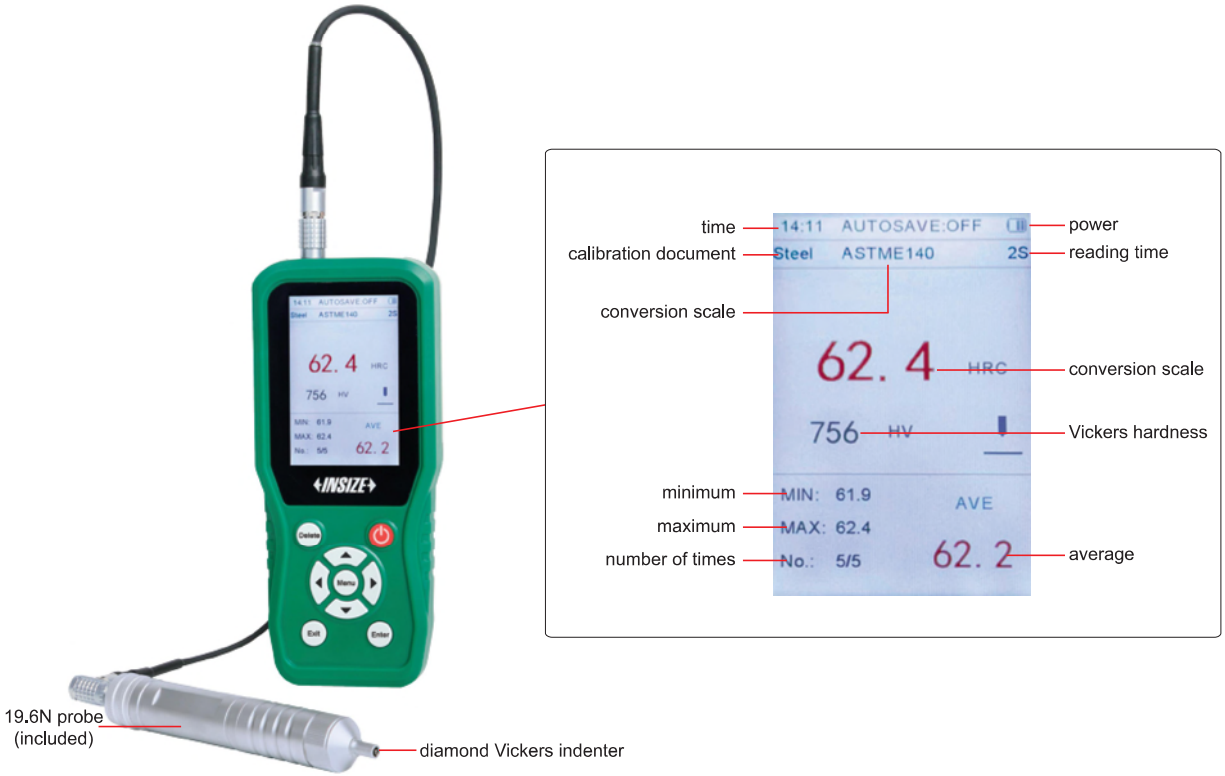
ULTRASONIC HARDNESS TESTERS

INSPECTION CERTIFICATE

SMALL TEST INDENTATION

ATTENTION: HARDNESS BLOCKS FOR CALIBRATION ARE OPTIONAL

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



9646-300

bluetooth printer
(included in **9646-301**)

- Small size, light weight, portable, convenient for on-line measurement and can be used to measure large workpieces
- Support 360°measurement, fast test speed, the fastest results in 1 second
- Standard Vickers indentation, small test indentation and low damage to the workpiece
- 100 measurement data sets and 10 calibration data sets can be stored
- Large display, directly shows the current measured value, maximum value, minimum value, average value and unit conversion value
- For unspecified conversion tables and unknown materials, multi-point calibration on any hardness scale you can choose to eliminate of systematic errors due to conversion tables
- According to DIN 50159, ASTM A1038 standards

Applications:

1. Hardness measurement of flange edges and gearoot stampings, gears and gear grooves with hardened die sheet surfaces, taper sections
2. Hardness measurement of shafts and thin-walled pipes and vessels
3. Hardness measurement of thin plated layers, wheels, turbine rotors and welded parts
4. Measurement of the depth of a certain hole diameter deep holes, curvature of the larger dents and convex marks, irregular planes
5. Covering the majority of hardness measurement of industrial production of ferrous metals, non-ferrous metals and their alloys

SPECIFICATION

Code	9646-300	9646-301
Data printout	without printer	with bluetooth printer
Main test parameter	HV	
Convertible parameters	HRA, HRB, HRC, HBW, HS, MPa	
Measurement range	50-1599HV, 20-68HRC, 85-650HB, 41-100HRB 61-85.6HRA, 34.2-97.3HS, 255-2180MPa	
Resolution	1HV, 0.1HRA, 0.1HRB, 0.1HRC, 1HB, 0.1HS, 1MPa	
Accuracy	±4%HV, ±4%HB, ±1.5HR	
Calibration method	normal material: one-point calibration special materials: multi-point calibration	
Operating temperature	-10°C~40°C	
Power supply	built-in rechargeable lithium battery (for 10 hours working)	
Dimension of main unit	190×82×30mm	
Dimension of probe	150×Ø22mm	
Weight	540g	

STANDARD DELIVERY

Code	9646-300	9646-301
Main unit	1 pc	1 pc
19.6N manual probe	1 pc	1 pc
Bluetooth printer	—	1 pc
charger	1 pc	1 pc
USB cable	1 pc	1 pc
Randomized standard hardness block	1 pc	1 pc

OPTIONAL ACCESSORY

9.8N manual probe	9646-300-10
29.4N manual probe	9646-300-30
49N manual probe	9646-300-50
98N manual probe	9646-300-98
Hardness test block HRC20~30	HDT-B-HRCU1
Hardness test block HRC35~55	HDT-B-HRCU2
Hardness test block HRC60~70	HDT-B-HRCU3
Hardness test block 200~300HV5	HDT-B-HV5U1
Hardness test block 400~500HV5	HDT-B-HV5U2
Hardness test block 700~750HV5	HDT-B-HV5U3
Hardness test block 90~200HBW10/1000	HDT-B-HB10U1
Hardness test block 200~300HBW10/3000	HDT-B-HB10U2
Hardness test block 400~500HBW10/3000	HDT-B-HB10U3

SPECIFICATION OF PROBE

Probe Types	9.8N (**optional**)	19.6N (included)	29.4N (**optional**)	49N (**optional**)	98N (**optional**)**
Diameter	22mm	22mm	22mm	22mm	22mm
Length	150mm	150mm	150mm	150mm	150mm
Maximum roughness of measuring surface	Ra<3.2μm	Ra<5μm	Ra<5μm	Ra<10μm	Ra<15μm
Minimum workpiece weight	0.3kg*	0.3kg*	0.3kg*	0.3kg*	0.3kg*
Minimum thickness of workpiece	2mm	2mm	2mm	2mm	2mm
Application	mold shells, fixtures, thin-walled parts, bearings, tooth sides and pipe interiors			measurement of grooves, gear flanks and gear roots	workpieces with low roughness requirements

*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 (optional**)