

Multi-languages type Hardness Tester DHT-100Plus



Features

- Multi-languages and multi-national hardness standards
- Large color TFT display 320×240
- Measuring range 174~960HL
- High accuracy and repeatability $\pm 0.5\%$ at 800HL
- Conform to ASTM A 956
- Impact Device D is in standard delivery, optional Impact Device DC, DL, D+15, C and G for different application
- Automatic impact device recognition
- Based on HL value, conversion to HRB, HRC, HV, HB, HS and Tensile strength is available
- 360° full angle measurement
- Memory of 10,000 average readings in 100 files, data transfer without software or optional Bluetooth printer
- Auto shut down without operation for saving power



Standard Delivery

- Main Unit
- Impact device D
- Certified test block with HLD value
- Cable
- Cleaning brush
- Small supporting ring
- Operating manual
- Carrying case
- Calibration Certificate

Technical Specification

Measurement range	174HL ~ 960HL See table 1	
Hardness parameter	HL, HRB, HRC, HV, HB, HS and Tensile strength	
Tensile strength UTS range (steel only)	370 ~ 2000 ($\approx 106\text{N/mm}$)	
Optional impact device	D, DC, DL, D+15, C and G	
Materials	Steel & Cast steel, Alloy tool steel, Stainless steel, Grey cast iron, Spheroidal iron, Cast aluminum, Brass, Bronze and Copper	
Accuracy & Repeatability	$\pm 0.5\%$ when HL=800	
Memory	10,000 average readings	
Data output	USB	
Require-ment	Thickness	Minimum 3mm or more (10mm for Impact device G)
	Weight	5Kg or more (Need Solid support 2-5Kg, Need coupled < 2Kg)
	Roughness	$\leq \text{Ra}10$
	Test point	Radius (convex/concave) $R_{\min}=30\text{mm}$ or more
		(Need support ring < 30mm)
		5mm or more from edge of the sample
Display	Color TFT display 320X240	
Power supply	2PCS AA battery	
Operating temperature	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$	
Dimensions	133mm (L) $\times$ 75mm (W) $\times$ 29mm (H)	
Weight	0.26kg (including batteries)	

Table 1 for Impact device D

Materials	HL	HRC	HRB	HB	HS	HV
Steel & Cast Steel	300-900	20.0-68.0	38.4-99.5	80-647	32.5-99.5	80-940
Alloy tool Steel	300-840	20.4-67.1				80-898
Stainless Steel	300-800	19.6-62.4	46.5-101.7	85-655		85-802
Grey cast iron	360-650			93-334 30D ²		
Spheroidal Iron	400-660			131-387 30D ²		
Cast Aluminum	174-560			20-159 10D ²		
Brass	200-550		13.5-95.3	40-173 10D ²		
Bronze	300-700			60-290 10D ²		
Copper	200-690			45-315 10D ²		

Optional Accessories



Bluetooth printer



Impact devices D, C, DC, D+15, DL, G



Support rings