



**FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)**

**INSPECTION CERTIFICATE**

step: 1

elevate the stage by hand to let the indenter approach the workpiece, press "start" to start testing automatically, the test force is loaded automatically

step: 2

measuring microscope

measure indentation with measuring microscope

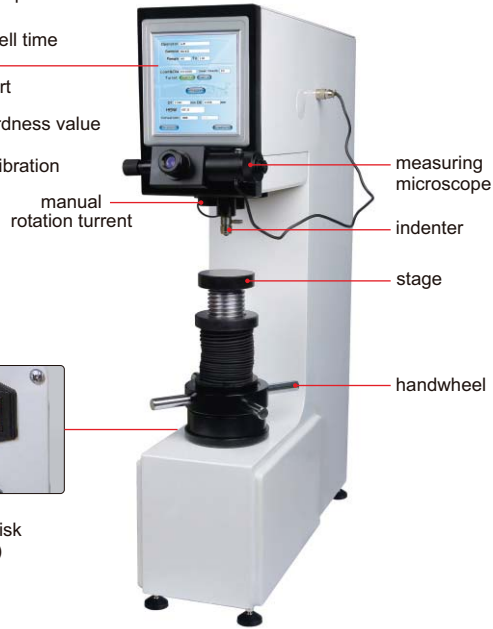
step: 3

read the hardness value from LCD

**LCD touch screen**

operator: operator full  
 Sample: BLOCK  
 Range: 80 - Top 100  
 Load&Dwell: 10-1000 Dwell Time(S): 10  
 Turret: 000000  
 DI: 1.500 mm DI: 1.504 mm  
 HBW: 97.3  
 Conversion: 800  
 reset

workpiece name  
 dwell time  
 start  
 hardness value  
 calibration



**ISHB-D200-U**



- Automatic testing, automatic test force loading
- LCD touch screen, easy operation
- Measure indentation by measuring microscope then read the hardness value from LCD
- Low and high limits
- Insert USB flash disk, save the test results as Excel
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HB, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Force loading by electric motor, without weights

**SPECIFICATION**

Part No.	<b>ISHB-D200-U**</b>	<b>ISHB-D300-U**</b>
Turret rotation	manual	automatic
Range	8~650HBW	
Reading mode	directly read from LCD	
Test force	612.5N/62.5kgf, 980N/100kgf, 1.225kN/125kgf, 1.837kN/187.5kgf, 2.45kN/250kgf, 4.9kN/500kgf, 7.35kN/750kgf, 9.8kN/1000kgf, 14.7kN/1500kgf, 29.4kN/3000kgf	
Max. height of workpiece	7.87"	
Max. depth of workpiece	6.1" (from the center of indenter)	
Stage elevation	manual	
Load control	automatic (load/dwell/unload)	
Load dwell time	5~60 second	
Measuring microscope	magnification	20X
	resolution	0.625mm/.0246"
Power supply	110V, 50/60Hz **	
Dimension	21.65×8.27×29.53"	
Weight	244lb	

**STANDARD DELIVERY**

Main unit	1 pc
3.15" DIA flat anvil	1 pc
7.09" DIA flat anvil	1 pc
V-type anvil	1 pc
.098" DIA carbide ball indenter	1 pc
.197" DIA carbide ball indenter	1 pc
.394" DIA carbide ball indenter	1 pc
Hardness test block 150~250HBW2.5/187.5	1 pc
Hardness test block 75~125HBW10/1000	1 pc
Hardness test block 175~250HBW10/3000	1 pc
USB flash disk (8G)	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

**OPTIONAL ACCESSORY**

Hardness test block 150~250HBW2.5/187.5	<b>ISH-BHB25B</b>
Hardness test block 75~125HBW10/1000	<b>ISH-BHB10A</b>
Hardness test block 175~250HBW10/3000	<b>ISH-BHB10B</b>
Brinell indentation measuring system	<b>ISHB-TSA/TSB</b>