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HBRV-187.5 Motorized Brinell Rockwell & Vickers Hardness Tester



Product Details:

Model Number HBRV-187.5

Power Electronic

Usage Universal Hardness Tester Minimum Order

1 Set/Sets **Quantity:**

Wooden Case. L x W x H (mm):

Packaging Details:

655 x 375 x 960 Gross Weight: 105KG

Delivery Time:

within 2 weeks upon receipt the deposit

Payment Terms:

T/T, Western Union

Supply Ability:

150 Set/Sets per Month

Measure brinell rockwell and vickers hardness. 7 steps testing force simple, easy and quickly operation, high accuracy.

- 1. Hardness is one of the important mechanic characteristics of the material while the hardness testing is the most quickly and economic testing method, as well as an important method to judge the quality of the metal material or its component parts. The mechanic characteristics of most metal materials such as the strength, tiredness, wriggling and wearing out can be tested out approximately through its hardness testing.
- 2. The Motorized Brinell Rockwell & Vickers Hardness Tester, a multi-functional hardness tester with Brinell, Rockwell &Vickers 3 kinds of testing methods and 7 steps testing force will meet the needs of many kinds of hardness measurement. The instrument is adopted automatic shifter to load, dwell and

unload testing force, therefore the operation for this instrument is simple, easy and quickly.

Technical specifications

- 1. The Initial Test Force: 98.07N (10Kg); Tolerance: $\pm 2.0\%$
- 2. The Tolerance of Total Test Force: $\pm 1.0\%$
- 2.1 The Test Force of Brinell Hardness: 294.2N(30kg), 306.5N (31.25kg), 612.9N (62.5kg), 980.7N(100kg), 1893N(187.5kg)
- 2.2 The Test Force of Rockwell Hardness: 588.4N (60kg), 980.7N (100kg), 1471N(150kg)
- 2.3 The Test Force of Vickers Hardness: 294.2N (30Kg), 980.7N (100Kg)
- 3. The Indenter Specifications:
- 3.1 The diamond Rockwell indenter
- 3.2 The diamond Vickers indenter
- 3.3 The ϕ 1.5875 mm, ϕ 2.5 mm, ϕ 5 mm Brinell ball indenter
- 4. The Power Source and the Voltage: AC220V±5%, 50-60 HZ
- 5. Time-delayed control: 2-60 seconds, can be adjusted
- 6. The Distance from the Indenter Central Point to the Instrument Body: 165mm.
- 7. The Max. Height of the Specimen:
- 7.1 The Max. Height of the Specimen for Rockwell Hardness: 170mm
- 7.2 The Max. Height of the Specimen for Brinell & Vickers Hardness: 100mm
- 8. The Amplification of Objective: $37.5\times$; $75\times$
- 9. The Overall Dimension of Hardness Tester(Length×Width×Height): 520×215×700mm
- 10. The Total Weight of the Tester: 78kg

Rockwell Hardness

11. The Tolerance of Rockwell Hardness Display Value

Hardness Scale	Range of The Standard Testing Blocks	The Tolerance of Hardness Display Value	
HRA	20~≤75HRA	±2HRA	
	>75~ <u><</u> 88HRA	±1.5HRA	
HRB	20~≤45HRB	±4HRB	
	>45~ <u><</u> 80HRB	±3HRB	
	>80~≤100HRB	±2HRB	
HRC	20~≤70HRC	±1.5HRC	

Brinell Hardness

12. The repetition and tolerance of displayed Value for Brinell hardness tester

Hardness Value of Standard Testing Blocks	Tolerance of Displayed Value (%)	Repetition of Displayed Value (%)	
HBW≤125	±3	≤3	
125 <hbw≤125< td=""><td>±2.5</td><td>≤2.5</td></hbw≤125<>	±2.5	≤2.5	
(HBW)>225	±2	≤2	

Vickers Hardness

13. The Tolerance and Repetition of Displayed Value for Vickers Hardness Tester

Tolerance of Displayed Value			Repetition of Displayed Value	
Hardness Scale	Displayed Value	Tolerance	Displayed Value of	Repetition
	of Hardness Test Block	of Displayed Value	Hardness Test Block	of Displayed Value
HV30	≤250HV	±3%	≤225HV	6%
HV100	300~1000HV	±2%	>225HV	4%