



莱州雷瑞试验设备有限公司  
LAIZHOU LYRIC TESTING EQUIPMENT CO., LTD.

ADD.: 232 WANHAO BUSINESS BUILDING, EAST GUANGZHOU ROAD, LAIZHOU, SHANDONG P.R., CHINA



**MODEL HBRV-187.5ST TOUCH SCREEN  
DIGITAL DISPLAY BRINELL ROCKWELL VICKERS HARDNESS TESTER**

**Features:**

- Brinell, Rockwell, Vickers testing methods
- Touch-screen interface, easy to operate, multi-language version
- Electric loading without weights, closed-loop control, no need for installation
- Automatic correction for test force, automatic compensation for each level of test force, and this improves the accuracy of test force a lot
- Automatic correction for Rockwell curvature radius;
- Password protection for various setting parameters, more information for samples and testing data;
- Measuring result can be saved into U disk in EXCEL format, which is convenient for editing and processing
- Modular design for easy maintenance.
- Precision conforms to GB/T 230.2, GB/T 231.2, GB/T 4340.2, ISO6508-2, ISO6507-2, ISO6506-2, ASTM E18, ASTM E10 and ASTM E92.

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+989034119385

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### Specifications:

Test Force	5~187.5kgf
Brinell Scale	HBW1/5, HBW2.5/62.5, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/1000, HBW5/125, HBW2.5/187.5 (Any 10 types)
Indication accuracy	8-650HBW ( $\delta/\%$ ): $\pm 2.5$
Repeatability	8-650HBW ( $H_{cf}/\%$ ): $\leq 3.0$
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Indication accuracy	$\pm 0.1HR$
Repeatability	0.5HR
Vickers Scales	HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV100, HV120 (Any 10 types)
Indication accuracy	$\pm 2$
Repeatability	$\leq 2.5$
Force error	$< 0.5\%$
Min. measurement unit	0.625 $\mu m$
Dwelling Time	1~99s
Maximum specimen height	220mm for Rockwell testing, 170mm for Brinell and Vickers hardness testing
Depth of throat	200mm
Hardness measuring range	For Brinell: 8~650 HBW For Rockwell: 20~95 HRA, 10~100HRBW, 20-70 HRC For Vickers: 8~2900 HV
Implementation of the standards	GB/T 230.2, GB/T 231.2, GB/T 4340.2, ISO6508-2, ISO6507-2, ISO6506-2, ASTM E18, ASTM E10 and ASTM E92.
Objective lens	2.5X, 5X (Optional for 10X, 20X)
Hardness read	Touchable LCD display, USB Flash Disk
Power supply	AC220V or 110V, 50 or 60Hz
Dimensions	500mm $\times$ 240mm $\times$ 760 mm
Weight	60 Kg

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Operation Interface:

Main Interface for Brinell

Operator

Sample

Range  To

Load(kg)  Dwell Time(S)

Turret

Brightness

D1  D2

HBW

Conversion

Brinell Test Scale (Any 10 types)

Measurement scale for the Brinell

Main Interface for Rockwell test

Operator:

Sample:

Curvature:

Range:  To

Hardness type:

Conversion type:  Value:

Dwell Time(S):

Hardness value:

Rockwell Test Scale (Any 10 types)

Measurement Scale

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Main Interface for Vickers test

Vickers Test Scale (Any 10 types)

Operator

Sample

Range  To

Load(kg)  Dwell Time(S)

Turret

Brightness

D1  D2

HV

Conversion

Measurement Scale

Brinell, Vickers Testing Calibration

Rockwell Testing Calibration

Calibration

Magnification:

Load(kg):

Pulse count: X  Y

Hardness value

Calibration

Scale:

Standard hardness value: Measured:

Low

Medium

High



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Standard Accessories:

Part name	Quantity	Name	Quantity
Host computer	1	Brinell indenter diameter of 2.5mm, 5mm, carbide ball	1 each
Vickers indenter	1	Rockwell 1.588 carbide ball indenter	1
Rockwell diamond indenter	1	Lens 2.5 x, 5x (10x, 20 x optional)	1 each
Hardness block	5 pcs.	Exterior lighting	1
Power line	1	Large, medium, V-test sets	1 each
Sliding test sets	1	U disk (with an Operation manual)	1

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