Touch Screen Digital Universal Hardness Testers

Main Features:

- Equipped Brinell, Rockwell, Vickers test methods
- 8 inch Touch-screen interface, easy to operate
- Close loop, with high accuracy load cell, no need install weights
- Test force automatic correction, each file is automatically compensated force, improve the accuracy of the force a number of levels
- According to GB / ASTM hardness automatic conversion
- Rockwell automatically correct curvature radius
- Set a password to protect setup parameters, more samples and testing information
- Measuring U disk to save data to EXCEL format for easy editing and processing
- Modular design for easy maintenance.

Technical Parameter:

Model		EI-BRV187.5TS
Scale	Brinell	HBW1/5, HBW2.5/6.25, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/100, HBW5/125, HBW2.5/187.5

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	Rockwell	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
	Vickers	HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV-100, HV120
Test force	Brinell	5kgf (49N), 6.25kgf (61.25N), 10kgf (98N), 15.625kgf (153.125N), 30kgf (294N), 31.25kgf (306.25N), 62.5kgf (612.5N), 100kgf (980N), 125kgf (1225N), 187.5kgf (1837.5N)
	Rockwell	60kgf (588N), 100kgf (980N), 150kgf (1471N) Initial test force:10kgf(98N)
	Vickers	5kgf (49N), 10kgf (98N), 20kgf (196N), 30kgf (294N), 40kgf (392N), 50kgf (490N), 60kgf (588N), 80kgf (784N), 100kgf (980N), 120kgf (1176N)
Indication Accuracy	Brinell	8 ~ 650HB (δ/%): ±2.5
	Rockwell	±0.1HR
	Vickers	±2
Repeatability	Brinell	8 ~ 650HB (Hcf/%): ≤3.0
	Rockwell	0.5HR
	Vickers	≤2.5
Hardness Range	Brinell	8 ~ 650HBW
	Rockwell	20 ~ 100HR
	Vickers	8 ~ 2900HV
Force Error		<0.5%
Holding Time		0 ~ 60s
Minimum Measuring Unit		0.1μm
Allowed Maximum Sample Size (Test Space)		Allowed Maximum Sample Height in V**ertical**: 220mm (for Rockwell); 150mm (for Vickers & Brinell test mode) Allowed Maximum Sample Height in H**orizontal**: 200mm
Magnification		Eyepiece: 15x, 2.5x (for Brinell), 5x (for Vickers) (10x, 20x for optional) Total Magnification: 37.5x, 75x
Hardness Read		Touchable LCD display, USB Flash Disk

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Power Supply	AC220V, 50Hz
Implementation of the standards	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2 ISO 6507, ASTM E92, JIS Z2244,GB/T 4340.2
Dimensions	560 x 350 x 800mm
Weight	Approx. 70kg

Standard Accessories:

Part Name	Qty	Part Name	Qty
15x Eyepiece	1	Brinell Indenter Ø2.5mm, Ø5mm, Carbide Ball	Each 1
Vickers Indenter	1	Rockwell 1.588 Carbide Ball Indenter	1
Rockwell Diamond Indenter	1	Objective Lens 2.5x, 5x	Each 1
Hardness Block	5 pcs	Exterior Lighting	1
Power Line	1	Large, Medium, V-test Sets	Each 1
Sliding Test Sets	1	U disk (with an Operation manual)	1
Fuse 2A	2	Adjust Level Screw	4
Dust Proof Cover	1	Accessories Box	1

Optional Accessories:

Part Name	Qty	Part Name	Qty
Camera	1	Operation Software for Brinell / Rockwell / Vickers	1
Computer Set & Printer	1		

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Main Interface for Brinell

Brinell Test Scale

Main Interface for Rockwell Test

Rockwell Test Scale

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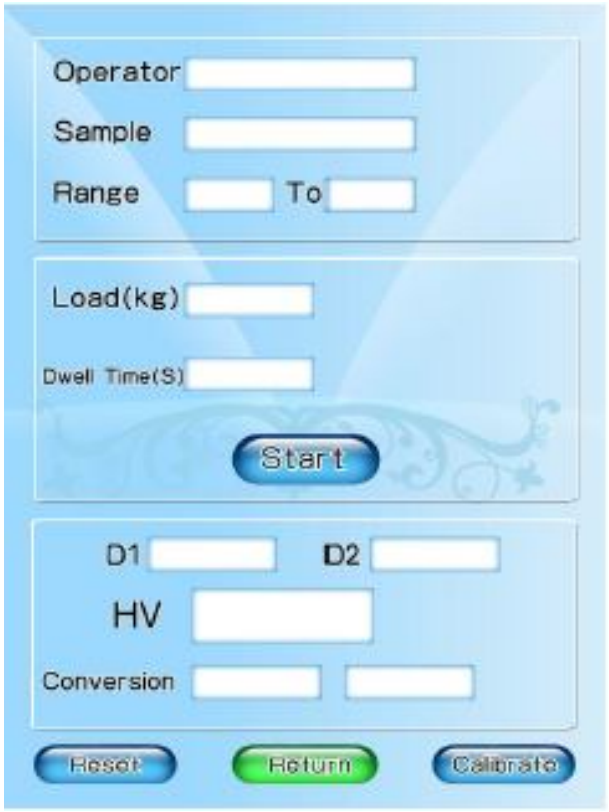
Main Interface for Vickers Test



Vickers Test Scale (Any 10 Types)

Brinell, Vickers Testing Calibration

Rockwell Testing Calibration

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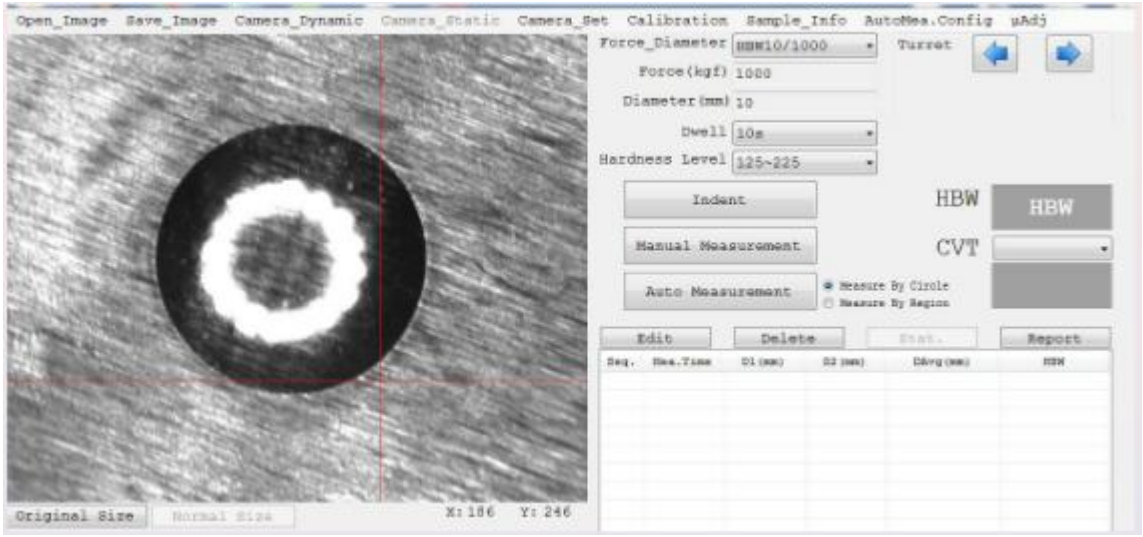
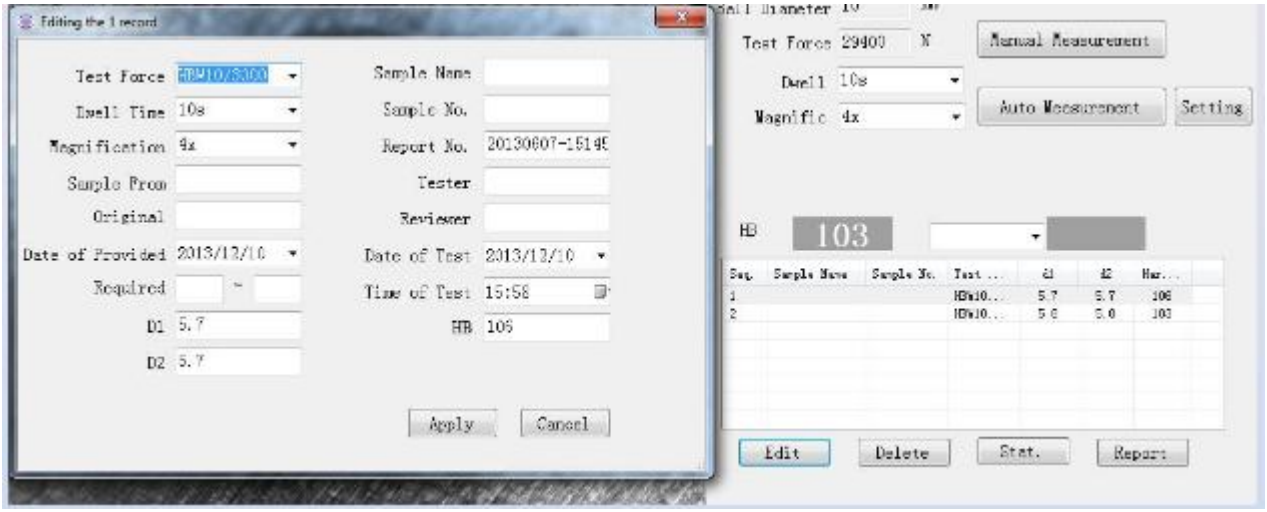
Testing Software:

1. Image with high resolution and indentation measurement by auto or manual.
2. Calibration using micrometer or hardness block, can be calibrated automatically.
3. Hardness converted to other hardness scales according to ASTM standard, alarm when hardness values out of range.
4. Test report scan be customized; all testing data can be saved for long time and easy for historical inquiry.

Brinell Software Interface (for reference):



Support Test Result Edits Function:



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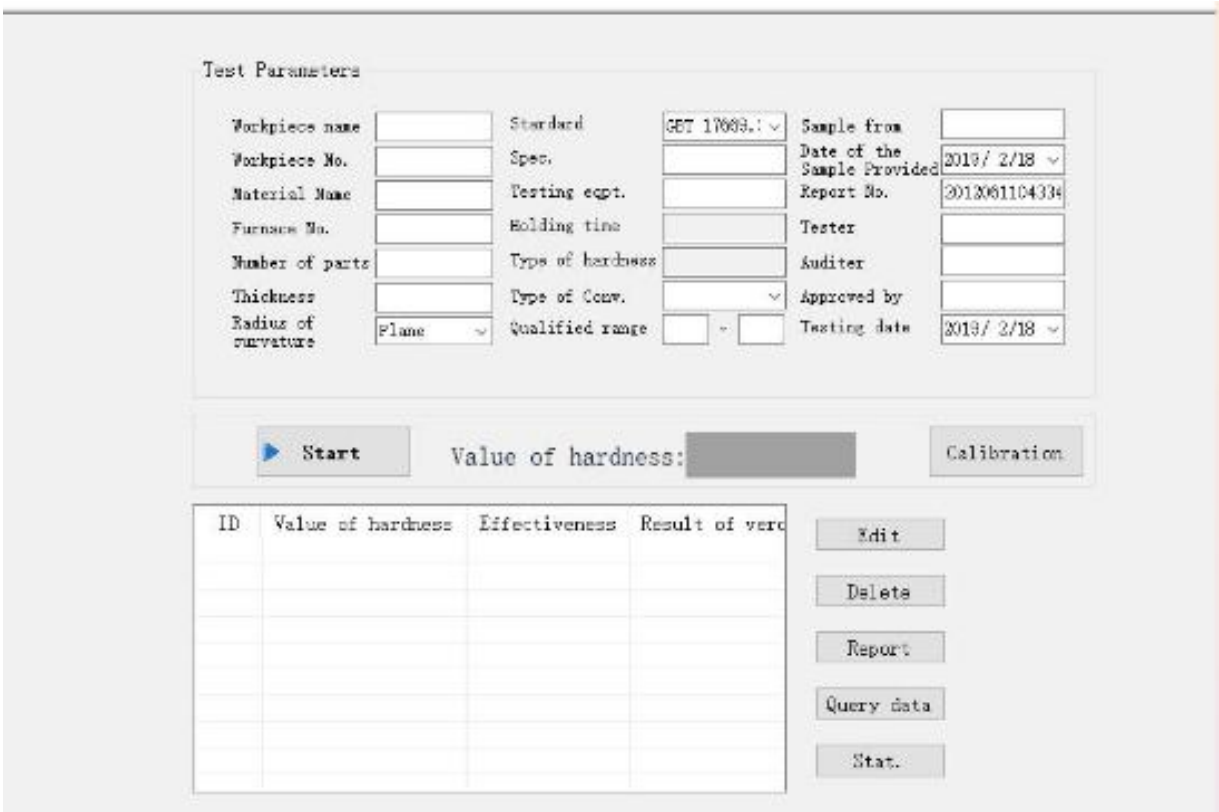
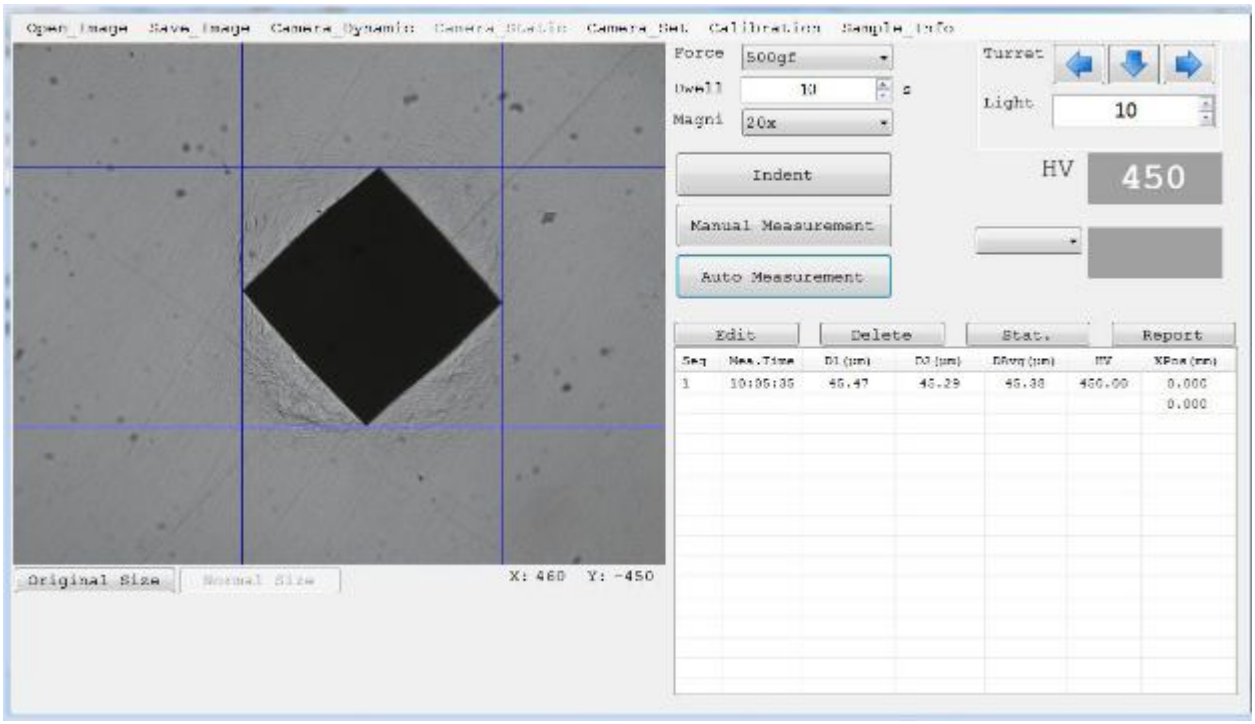
Rockwell Hardness Test Interface:



Vickers Hardness Test Interface: Support automatic & manual measurement mode and generate test report in word format.



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