

Fully Automatic Universal Hardness Tester

Model No. 900-450







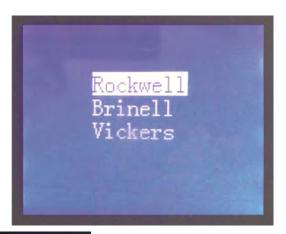
Rockwell, Brinell and Vickers

- The test force is applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit that replace traditional dead weights. The result is highly accurate measurements at all test loads up to 0.5%.
- . Simple plug and play tech allows for much more quick and easy installation than traditional dead weight type machines.
- Automated Z-Axis .Just press START key once, entire test process will be finished automatically. regardless of the size of the sample, the position of the sample, the distance between the indenter and sample surface. The sample will be auto-lifted to approach the indenter and finish testing automatically.
- Higher precision than handle wheel lifting/dead weight type machines which can be affected by user interaction.
- Extended dolphin nose allows vertical test height of 11.8" and throat depth of 8.6".
- Built-in micro-printer.



Basic functions:

- Twin tester--Regular Rockwell & Superficial Rockwell hardness for metal and plastic material.
- Horizontal dolphin nose Indenter is suitable also for internal and external testing.
- Testing on Surfaces difficult to reach. Testing internal surface of rings and tubes.
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales.
- The tester is suitable for testing of carbon steel, alloy steel, cast iron, non ferrous metal.
- Automatic testing cycle: Lifting of part, pre-loading, loading, dwell, unloading, results will be finished automatically.
- Measuring results digitally displayed and can be printed, or transmitted to external computer automatically via USB port.
- Test HR value can be converted to the value of HB, HV, HK and σb value.









- Preload: 29.4N (3kgf), 98.1N (10kgf)
- Total test force: 147.1N(15kgf), 294.3N(30kgf), 441.3N(45kgf), (superficial)
- 588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf) (Regular Rockwell)
- Scales: HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV

BRINELL parameters:

• Test force: 15.625kgf, 31.25kgf, 62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf

• **Indenter:** Φ2.5mm, Φ5mm, Φ10mm

• Scales 2.5/187.5, 2.5/62.5, 2.5/31.25, 2.5/15.625, 5/250, 5/125, 5/62.5, 10/100, 10/250

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VICKERS parameters:

• Test force: 3kgf, 10kgf, 20kgf, 30kgf, 50kgf, 100kgf

Indenter: 136°diamond pyramid

Scales: HV3, HV10, HV20, HV30, HV50, HV100

Other Important Parameters:

• Load dwell duration: $2\sim50$ s, can be set and stored

• Resolution: 0.1HR

• Display: High definition backlight LCD

• Operation: Menu selectable, Membrane keypad

Limit setting: Upper/lower limits setting & alarming

• Data statistics: Avg., Max., Min., S, R

Curved surface auto correction

Memory: Max 400 items of test results stored automatically

• Testing Capacity: 300mm (vertical), 220mm (horizontal)

• Dimensions: 690mm×280mm×860mm

• Power supply: AC, 220V/110V, 50~60Hz, 4A (convertible)

• **Net weight**: 86 kg (190lbs)

Gross weight: 120kg (265 lbs)







Included Accessories:

Host machine	1	
Standard hardness block for B scale	1	
Standard hardness block for C scale	3	
Standard hardness block for 30N scale	1	
Standard hardness block for 30T scale	1	
ball indenter (1/16")	1	
120°cone diamond indenter	1	
Standard hardness block for HBW2.5/187.5	1	
Standard hardness block for HBW5/250	1	
Φ2.5mm Ball indenter	1	
Φ5mm Ball indenter	1	
40X Microscope for Brinell	1	
Standard hardness block HV10	1	
Standard hardness block HV30	1	
136° diamond pyramid indenter	1	
Microscope with 40X, 100X, 200X lens for	1	
Vickers		
Camera and Specific Software for Vickers	1	
with USB-key		
Φ150mm Flat anvil	1	
"V "shape anvil	1	
Power supply wire	1	
Mounting screws for indenter	1	
Screwdriver for indenter mounting	1	
Dust cover	1	