

# Universal Brinell, Rockwell and Vickers Hardness Tester

## Description

1. DHU-100 Universal Brinell, Rockwell and Vickers hardness tester can measure Brinell, Rockwell, superficial Rockwell, Vickers and other hardness values;
2. The computer can control hardness testing methods, process and calculate hardness values;
3. Automatic loading and unloading;
4. When measuring Rockwell hardness, automatically apply pre-load. Maintain the hardness testing data, and it can be checked in the database;
5. Automatically generate customized inspection reports.



## Technical Parameter

Load Method	Sensor loading, closed-loop control (DHUS-187.5)
Hardness Standard Scale	Rockwell, superficial Rockwell, Brinell, Vickers HVT, HBT
Force Range	2.5kgf/24.5N to 187.5kgf/1.84kN
Measuring Force Value	2.5kgf/24.5N, 3kgf/29.4N, 4kgf/39.2N, 5kgf/49N, 6.25kgf/61.29N, 10kgf/98N, 15kgf/147N, 15.625kgf/153.2N, 20kgf/196.13N, 25kgf /245.16N, 30kgf/294.19N, 31.25kgf/306.45N, 45kgf/411.29N, 50kgf /490N, 60kgf/588.4N, 62.5kgf/612N, 100kgf/980.7N, 120kgf/ 1176.79N, 125kgf/1225N, 150kgf/1471N, 187.5kgf/1838N Value is different depending on the models
Vickers Measurement Standard Scale	HV: 3kgf/29.4N, 4kgf/39.2N, 5kgf/49N, 10kgf/98N, 20kgf/196.13N, 30kgf/294.19N, 50kgf/490N, 100kgf/980.7N, 120kgf/ 1176.79N HVT: 50kgf/490N, 100kgf/980.7N(Optional)
Brinell Measurement Standard Scale	HB1: 2.5kgf/24.5N, 5kgf/49N, 10kgf/98N, 31.25kgf/306.45N HB2.5: 6.25kgf/61.29N, 15.625kgf/153.2N, 31.25kgf/306.45N, 62.5kgf/612N, 187.5kgf/1838N HB5: 25kgf/245.16N, 62.5kgf/612N, 125kgf/1225N; HB10: 100kgf/980.7N HBT2.5: 62.5kgf/612N, 187.5kgf/1838N(Optional)
Rockwell Measurement Standard Scale	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Plastic Hardness	In accordance with the ISO 2039/1
Lighting System	LED light, Ring Light



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Objective lens Magnification	2.5x, 5x and 10x
Camera	1280 * 1080 pixels, 1/2 inch
Resolution	0.1μm
Data Display	Computer data display
Implementation Standard	GB/T230.1,GB/T230.2 National standard JJG112, Verification Regulation GB/T 4340.1, GB/T231.1, GB/T 230.1
Test	Automatic Load, Dwell, Unload
Indenter	Rockwell diamond: 120 ° Rockwell ball indenter: 1/16“, 1/8“, 1/4“, 1/2“ Vickers diamond: 136 ° Brinell indenter ball: 1mm, 2.5mm, 5mm, 10mm Part is optional
Total Test Force Dwell Time	1 - 99 seconds
Sample Specifications	Max. height of the work piece: 175mm Indenter to Outer Wall Distance:165mm
Dimension	290mm x 520mm x 720mm (Length x width x height)
Weight	76kg
Power Supply	100V AC to 240V AC, 50Hz/60Hz,

## Standard Configuration

Item	Quantity	Item	Quantity
Host	1 set	Brand Computer	1 set
Vickers Indenter	1 pc	Brinell indenter 1.0,2.5,5mm, 10mm diameter carbide ball	1 pc each
Rockwell Diamond Indenter	1 pc	Rockwell ball indenter: 1/16“, 1/8“, 1/4“, 1/2	1 pc each
Camera	1 set	Inside and outside lighting	1 set each
Hardness Block	5 blocks	Large, medium, V-type test table	1 set each
Software CD	1 set	Data cable	1 pc
Power Cable	1 pc	Slide anvil	1 set
Objective Lens 5x ,10x, 20X	1 pc each	Product Manual	1 pc