

## KASON-HUS Series Universal Hardness Tester

**Application:**

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

**Features:**

1. Brinell, Rockwell, Vickers three test methods, more hardness scales to choose.
2. Electronic electric loading, high precision sensor, with a unique closed loop control system.
3. **Eyepiece structure with digital encoder, measure D1, D2 value, LCD directly display hardness value and D1, D2 value.**
4. The test force is automatically corrected, each force is automatically compensated, and the precision of the force is increased by an order of magnitude.
5. **It can be calibrated according to standard hardness blocks or length scales.**
6. **The test force can be corrected automatically by standard dynamometer.**
7. Rockwell and Vickers hardness values can be converted.
8. Touch screen interface, easy to operate.
9. Automatic conversion of hardness according to GB /ASTM.
10. Set password protection setting parameters, more sample and test information.
11. **The measurement data is saved in EXCEL format on USB disk, which is convenient for editing and processing.**

## 12. Optional upgrade to add HVT, HBT two ruler.(depth method)

## Technical Parameters:

MODEL	KASON HUS-187.5	KASON HUS-250
Hardness scale	Brucellosis, Vickers, Rockwell, Superficial Rockwell	
Test Force	5 ~ 187.5 KGF	5 ~ 250 KGF
Initial Test Force	Rockwell: 10kgf(98.07N) , Superficial Rockwell: 3kgf(29.4N)	
Hardness Scale	Rockwell : HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HRL、HRM、HRP、HRR、HRS、HRV	
	Brinell: HBW1/5,HBW2.5/62.5,HBW1/10,HBW2.5/15.625,HBW1/30、HBW2.5/31.25,HBW2.5/62.5,HBW10/100,HBW5/125,HBW2.5/187.5(select 10 scales)	Brinell: HBW1/ : 5, 10, 30kgf HBW2.5/ : 6.25, 15.625, 31.25, 62.5, 187.5 KGF HBW5/ : 25, 62.5, 125, 250kgf HBW10/ : 100, 250kgf
	Vickers : HV5, HV10, HV20, HV30, HV50, HV100, HV120kgf	
Measurement system	The indentation image is collected by optical objective lens and CCD camera and measured in LCD interface. Resolution:Length reading: 0.1 micron; Depth reading: 0.2 micron	
Magnification of objective lens	2.5x, 5X (optional 10X, 20X)	
Camera	1280 by 1080 pixels, 1/2 inch	
Data output	Computer display	
Test	Automatic loading, load retention, unload	
Indenter	Rockwell diamond: 120°	
Lighting system	LED light, ring light	
Execution standard	GB/T230, GB/T231, GB/T4340, JJG144-1999, GB/T18449, ISO 6508, ASTM E10, ASTM E92, ASTM E18, ASTM E384, ASTM E103	
Total experimental effort to maintain the load time	1-99 seconds	
Sample size	Maximum height of sample: 220mm; Head - outer wall distance (throat) :200mm;Cylindrical specimen: the minimum diameter of cylindrical specimen on the outer surface is 4mm;	
Maximum test height	Lowe's: 220, Brucellosis: 150mm	
Distance from center of indenter to outer wall	200mm	
Dimension	500*260*750mm	
Weight	About 70 kg	
Package size	730*650*900mm	
Gross weight	106kg	
Power	AC220V + 5%, 50 to 60 hz	

**Software**

The 1.3-megapixel camera has clear images, and the indentation measurement is automatic/manual Calibration using micrometer or hardness block calibration, automatic calibration

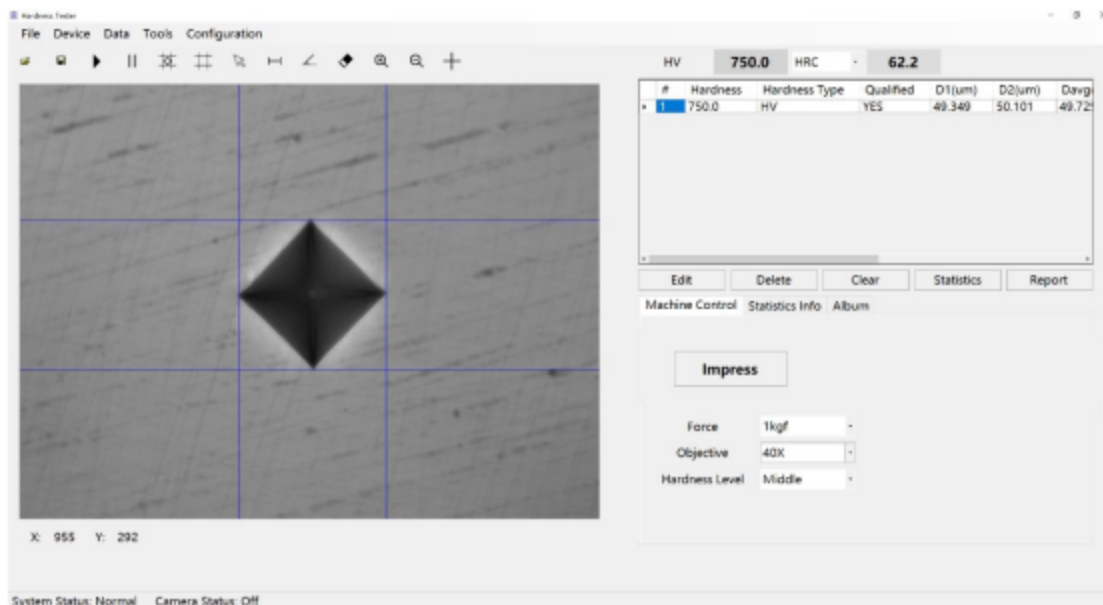
Computer automatic measurement image analysis, hardness software accurate correction and gradient diagonalization

Hardness is converted to other hardness according to national standard and ASTM; Hardness statistics and hardness exceeding alarm

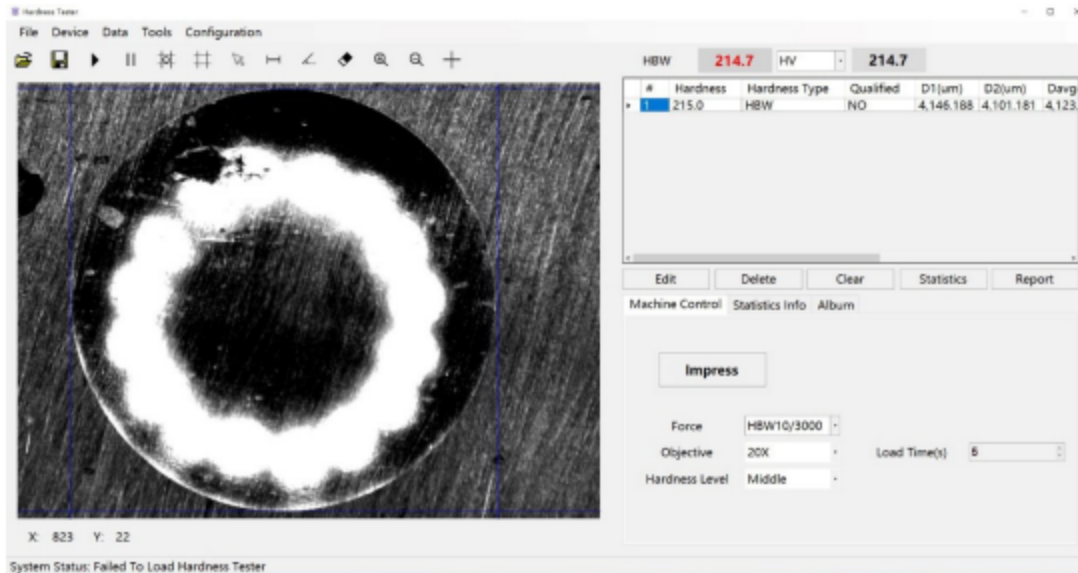
Automatically generate test report, all test data saved forever, easy to historical inquiry



**Rockwell measurement software interface**



**Vickers measurement software interface**



**Brinell measurement software interface**

**Standard configuration:**

Item	Qty	Item	Qty
Main host	1	Lighting (internal lighting, external lighting)	1
Rockwell,Vickers diamond indenter	2	Power cable	1
Ball indenter(φ1.588、2.5、5mm)	3	Fuse 2A	2
Eyepiece (15X)	1	Regulating screw	4
Objective (2.5X, 5X)	2	Dust bag	1
Sliding test table	1	Manual	1
Large, medium, V-test table	3	Quality certificate	1
Hardness block	5	Packing list	1
U disk, touch pen	Each	Desktop computer	1
Industrial camera	1	Software	1 set

# FOCUS IN MATERIAL TEST

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