



ADVANCED TOUCH SCREEN DIGITAL VICKERS HARDNESS TESTER (LOAD CELL BASED)

- > VALUE
- > VERSATILITY
- > PERFORMANCE



BVHT-30ADL





- Close Loop high precision load cell structure.
- Dual optical systems design (eyepiece + camera path), both paths can work at same time, no need switch knob.
- 5.6" Touch screen, menu structure, easy operate.
- · Quality automatic judgment function.
- Automatic turret, automatic loading, dwell, unloading.
- With emergency stop button, operation more safe.
- Automatic turret, digital eyepiece with encoder.
- Large range test force: 0.3 to 30kgf

APPLICATION:

- Widely used to test the hardness of all kinds of metal materials (steel, nonferrous metals, tinsel, cemented carbide, sheet metal, etc.)
- Surface layer / coating (Carburization, nitriding, decarburization layer, surface hardening layer, galvanized coating, etc.)
- Glass, chip, ceramic, plastic and rubber, etc.



FEATURES:

- Closed loop design with high accuracy load cell, no need to install dead weights, let installation more easy and loading - dwell - unloading automatically and easy operation.
- With load automatic correct function, greatly improved test accuracy and let calibration more easy.
- Modular design, simple maintenance.
- With hardness conversion function, from HV hardness value can covert to HR, HB, HK, etc.
- With HV/HK test function.
- Built-in printer for optional purchase.
- Can work with camera and Vickers indentation measuring software.
- According to different visual habits of the operators, the strength of the light source can be adjusted. To avoid the visual fatigue for long time operation.



- Industrial digital touch screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, test number and testing process.
- One-time casting iron molding shell ensure structure more stable; Adopted car painting technology, pure white color looking more decent; High scratch resistance capability, used for years still brightness like new.





TECHNICAL SPECIFICATION:

Model No.	BVHT-30ADL		
Turret	Automatic (Motorized)		
Force Loading	Automatic Loading - Dwell - Unloading		
Testing Force	0.3Kgf (2.94N), 0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20Kgf(196.0N), 30Kgf(294.0N)		
Hardness Scale	HV0.3, HV0.5, HV1, HV2, HV2.5, HV3, HV5, HV10, HV20, HV30		
Conversion Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
Min Measuring Unit	0.125μm		
Hardness Range	5-4000HV		
Eyepiece	10X Digital eyepiece with built-in encoder, Automatic calculate data		
Objective	10X, 20X		
Magnification	100X (Measurement), 200X (Measurement); Measuring range:400um Both lens can do observe and measurement work directly		
XY Work Table (Optional Purchase)	Dim.:100x100 mm, Max. Travel Range: 25x25mm, Moving Resolution Ratio: 0.01mm		
Dwell Time	1-99S (1 second per step)		
Data Output	5.6" Touch screen display, Built-in printer		
Test Space	175mm x 125mm (Height x Depth)		
Power Supply	AC220V, 50Hz		
Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2		
Overall Dimension	320*580*620mm		
Net Weight	71kg		
Packing Size	680*470*750mm		
Gross Weight	91kg		

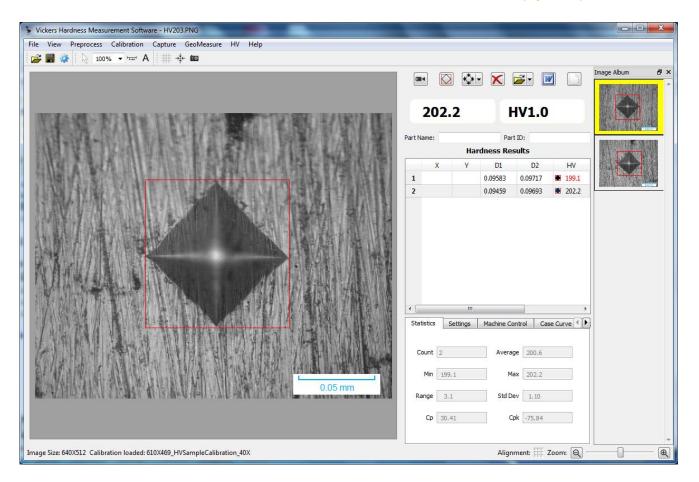
STANDARD ACCESSORIES:

Item Name	Q'ty	Item Name	Q'ty
Large Round Test Table	1	Medium Size Test Table	1
10X Digital Eyepiece	1	V-Shape Test Table	1
Vickers Hardness Block	2	Accessory Case	1
10X Objective Lens	1	Spare Fuses (2A)	2
20X Objective Lens	1	Production Certificate	1
Regulating Screw	4	Warranty Card	1
Dust Cover	1	Manual Book	1





HVS-A MICRO / VICKERS HARDNESS MEASUREMENT SOFTWARE (Optional)



MAIN FUNCTIONS:

- **Auto hardness measurement:** With a click of a button, the software automatically measures the diagonals of the indentation, calculates the hardness value and the statistics.
- **Hardness curve:** With the depths of test points by user input, the software automatically plots the hardness curve(s); User may save and load the depths in a depth template file for later testing for convenience.
- **Conversion, compensation, and validation:** Converts HV to other hardness scales; Validates the test results with sample dimensions; Compensates the test results with respect to sample cylindrical/spherical diameters.
- **Statistics:** Automatically updates the statistical values such as average, min and max, standard deviation,Cp and Cpk.
- **FRACTURE TOUGHNESS TESTING,** Kc(kic) value can be measured as a standard function.
- Auto-alarm: Automatically marks the out of spec measurements.
- Test report: Automatically generates WORD or EXCEL report with customizable template.
- Data archiving: Measurement data and images can be saved in one file for later retrieval.
- Knoop Scale: Can be configured for Knoop Scale measurement.
- Other Functions: Includes the basic functions of imaging system such as image capture, camera calibration, image processing, geometric measurement, document labeling, album management, and printing with specified magnifications.





HARDNESS REPORT FORMAT AS BELOW:

Micro/Vickers Hardness (HV) Test Results

