

DIGITAL MICRO VICKERS HARDNESS TESTER

METZ – MVHT 1000 AT (TOUCH SCREEN DISPLAY)



Main Features

- One-time casting aluminum machine body with car painting technology, structure more stable and appearance more decent.
- Digital 10X eyepiece with inbuilt encoder, click the encoder machine will automatic get indentation diagonal length data D1 & D2, no need manual input data into machine, greatly improved testing accuracy and working efficiency.
- With large touch screen digital display, directly display hardness value, dwell time, conversion hardness value, etc.
- Menu structure interface, easy operation.
- With HV / HK test function (if need HK test function, optional purchase Knoop diamond indenter and standard Knoop hardness blocks).
- With built-in printer, test result can be printed out directly.
- With RS232 communication port, machine can upgrade to semi-automatic or fully automatic type easily if needed in future.
- Double optical path design. Reserved photo camera port, can add camera and work with hardness tester analysis and measuring software system (camera & software system for optional purchase).



Technical Specifications

Model	METZ-MVHT 1000 AT
Turret	Automatic turret
Test force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf (4.9N), 1kgf (9.8N)
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HBS, HR15N, HR30N, HR45N, HR15T, HR30T, HR45
Hardness range	5-3000HV
Min. measuring unit	0.025µm (maximum resolution 0.01µm)
Data display	5.6" touch screen
Data output	built-in printer
Sample Height	maximum sample height: 110mm, Throat depth: 110mm
X-Y Testing table	Dimension: 100x100mm Max movement: 25x25mm
Force loading type	Automatic (Loading, Dwell, Unloading)
Magnification	Eyepiece: 10X electronic eyepiece with encoder; Objective: 10X (observation); 40x (measuring) Total: 100x (observation); 400X (Measuring)
Duration time	1-60s
Power supply	AC220V±5%, 50-60Hz
Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

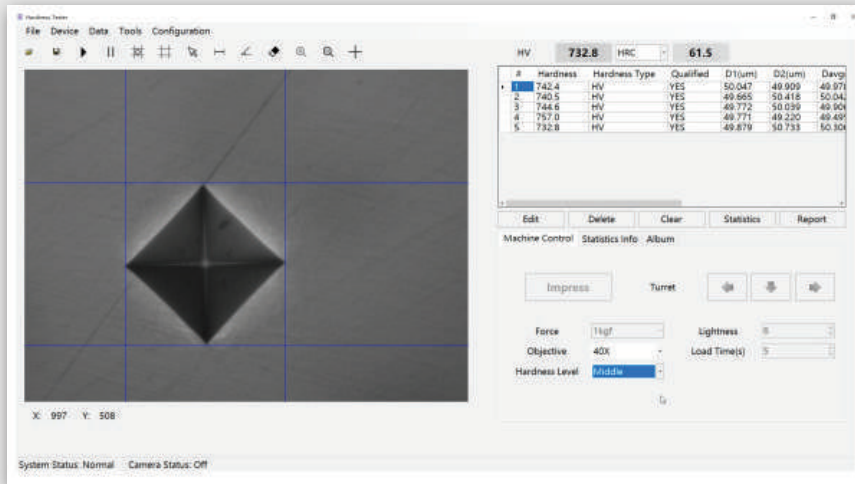
Sample Fixture



Standard Packing List

Item	Q'ty	Item	Q'ty
Weight shaft	1	Weights	6
X-Y Cross clamping testing table	1	Electronic eyepiece with encoder 10X	1
Flat clamping testing table	1	Thin Specimen Testing Table	1
Printer paper	1	Level adjustment screw	4
Micro Vickers hardness block	2	Objective 10X, 40X	1 + 1
Dust-proof cover	1	Screw driver	2
Power cable	1	Fuse (2A)	2
Manual	1	Product Certificate	1

MICRO / VICKERS HARDNESS MEASUREMENT SOFTWARE (OPTIONAL PURCHASE)



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 (also support manual measurement)
- 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;
- Hardness Conversion: Converts HV to other hardness scales (HRA, HRB, HRC, HBW, HK, etc);
- Data remember / Store function: All data in the process of measurement will be saved in the right bottom sheet.
- Statistics: Automatically updates the statistical values such as average, min and max, standard deviation;
- Test report: Automatically generates WORD 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;

