

200HV-5TA / 10TA / 30TA / 50TA

AUTO TURRET TOUCH SCREEN VICKERS HARDNESS TESTER



It can be used to determine the Vickers hardness of steel, non-ferrous metals, ceramics, treated layers of metal surface, and the hardness grads of carburized, nitrided and hardened layers of metals. It is also suitable to determine the Vickers hardness of micro and super thin parts.

Feature & Use

- Automatic turret shifting between indenter and objective lens.
- Large 8" touch screen, direct visual display and interactive operating interface.
- High speed ARM processor, fast operation speed and extensive database storage.
- High quality integral casting cast iron machine body with automotive paint treatment process, the appearance is smooth and beautiful.
- The hardness scale, test force, indenter type, holding time and the conversion unit can be displayed on screen and set.
- The turbo-worm elevating system can greatly improve the testing stability and accuracy.
- HD measurement and observation - dual objective lens combination, combined with the built-in length encoder HD micrometer eyepiece, to achieve indentation diagonal one-key measurement, greatly reduce the manual interference and reading error.
- Convenient control system can automatically convert the unit of full hardness scales.
- The maximum and minimum hardness values can be set, when the test value exceeds the set range, an alarm sound will be issued.
- With the function of software hardness value correction, the hardness value can be directly corrected within a certain range.
- With the database function, the testing data can be saved automatically in groups, each group can save 10 data, totally can save up to 2000 data.
- With the hardness value curve display function, intuitively display the changes of hardness value.
- CCD image measuring system is optional.
- Knoop indenter can be selected to measure the Knoop hardness.
- Equipped with wireless blue-tooth printer, the data can be output through RS232 or USB interface.
- Precision conforms to GB/T4340.2, ISO6507-2 and ASTM E384.



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Standard Accessories:

- Large flat anvil: 1 pc.
- Small flat anvil: 1 pc.
- V-notch anvil: 1 pc.
- Diamond pyramid penetrator: 1 pc.
- Vickers standardized block: 2 pcs.

Note: Special accessories can be provided.

Video measuring apparatus can be provided. It can display the testing indentation image on the screen and make the measurement.

CCD image processing system can be provided. It will clearly show indentation image on a computer screen, and make automatic or manual measurement through PC.



Model	200HV-5TA	200HV-10TA	200HV-30TA	200HV-50TA
Test force	0.3, 0.5, 1.0,	0.3, 0.5, 1.0,	1.0, 3.0, 5.0,	1.0, 5.0, 10.0,
	2.0, 3.0, 5.0kgf	3.0, 5.0, 10.0kgf	10.0, 20.0, 30.0kgf	20.0, 30.0, 50.0kgf
	(2.942, 4.904,	(2.942, 4.904,	(9.807, 29.42,	(9.807, 49.03,
	9.807, 19.61,	9.807, 29.42,	49.03, 98.07,	98.07, 196.1,
	29.42, 49.03N)	49.03, 98.07N)	196.1, 294.2N)	294.2, 490.3N)
Conversion Scale	HRA, HRB, HRC, HRD, HRE, HRF, HV, HB,			
	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T			
Hardness measuring range	5~2900HV			
Measuring resolution	0.025μm			0.1μm
Hardness resolution	0.1HV			
Max Height of Specimen	200mm			
Depth of throat	130mm			
Carried standards	GBT4340.2, ISO6507-2, ASTM E92			
Magnification of eyepiece	10X			10X
Magnification of objective lens	10X, 40X			10X, 20X
Total magnification	100X, 400X			100X, 200X
Data output	LCD display, wireless blue-tooth printer, RS232 and USB interface			
Dwelling time	1~99s			
Power supply	AC 220V or 110V, 50 or 60Hz			
Overall Dimensions	620*330*650mm			
Net weight	About 75Kg			



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