

Automatic Vickers hardness tester



New generation automatic Vickers hardness tester iVick-483ST4 adopts the integrated design with panel computer. Panel computer equips with Windows 7 operating system, all the testing parameters can be selected and preset by touch screen computer, makes operation quickly and conveniently and displays clearly and intuitively.

iVick-483ST4 can show the indentation image directly on the touch screen and automatically get the Vickers hardness value by CCD image acquisition system.

iVick-483ST4 takes over the old method of measuring the diagonal length by eyepiece, avoids the stimulation and visual fatigue of the light source of the eyepiece, and protects the eyesight of the operator.

With two indenters and three objectives, automatic recognition and turret between the objective and the indenter, support hardness scales conversion.

With USB, VGA and LAN interfaces, the hardness measurement can be printed out by USB interface, and can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document.

With motorized X-Y test table, automatic focusing and automatic measuring, it realizes the fully automation of Micro Vickers hardness testing.

Application range:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

iVick-483ST4	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf
iVick-484ST4	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf
iVick-485ST4	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf
iVick-486ST4	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf
Test Range	1HV~2967HV
Loading Method	Automatic (Loading/Dwell/Unloading)
Turret	Automatic Shifting
Computer	CPU: Intel I3, Memory: 2G, SSD: 32G
CCD Pixel	1.30 Million
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T,
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen
Data Output	WORD or EXCEL Report with Curve Chart
Objective	10x, 20x, 40x
Total Magnification	100x, 200x, 400x
Resolution	0.06μm, 0.03μm, 0.015μm
Dwell Time	0~60s
Light Source	Halogen Lamp
Motorized X-Y Test Table	Size: 110×110mm; Travel: 50×50mm; Resolution: 0.002mm
Max. Height of Specimen	185mm
Throat	130mm
Power Supply	AC220V/50Hz/1Ph
Execute Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	560×335×675mm, Packing Dimension: 650×380×960mm
Weight	Net Weight: 52kg, Gross Weight: 67kg

Packing List:

Description	Qty	Description	Qty
Instrument Main Body	1 set	Diamond Vickers Indenter	1 pc
10x, 20x, 40x Objective	each 1 pc	Motorized Cross Test Table	1 pc
Power Cable	1 pc	Horizontal Regulating Screw	4 pcs
Level	1 pc	Fuse 1A	2 pcs
Halogen Lamp 12V, 15~20W	1 pc	Screw Driver	1 pc
Inner Hexagon Spanner 2.5mm	1 pc	Hardness Block 700~800 HV1	1 pc
Hardness Block 400~500 HV5	1 pc	Anti-dust Cover	1 pc
Usage Instruction Manual	1 copy		