



## 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.

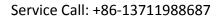
With two indenters and three objectives, automatic recognition and turret between the objective and the indenter, support hardness scales conversion.

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 сору    |                             |       |